

INSTALLATION MANUAL

ALX 92x Print & Apply System



Using the Documentation

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CAUTION!
Read the user manual before operating the device for the first time.
The user manual is an essential part of the device it belongs to.
The user manual is to be stored at the machine operating location and made accessible to the operator.

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Documentation structure

Datapool, documentation object

The overall documentation is a part of the datapool, which is provided for the printer user and the service personnel on CD or other electronic media.

Datapool

This datapool includes:

- this printer documentation,
- the printer drivers

Printer doc

Here the overall documentation (abbr.: documentation) is to be understood as the printer documentation.

The printer documentation contains all the information which is required for using the product. Using the product means preparing it for use, putting it into operation, setting it up, the operation, servicing and maintenance, fault searching and the service for optional extensions, settings and repairs.

Doc object

The documentation object includes

- various printer families (printer series), consisting of different printer models (devices),
- standard and optional additions for the printer (options) and
- the printer language Easy Plug.

Documentation concept

The wide range of products which must be documented and the demand for documentation distribution and use, both in electronic form (CD/Internet, PC) as well as in paper form, have resulted in the following documentation concept:

Structure

The documentation consists of

- topic sections (generally comparable to chapters),
- manuals (handbooks, instructions),
- link pages and the
- start page (start page of the CD documentation).



Subject section

Thematically-related subject contents are described in each topic section. A topic section is the smallest unit of information with its own

- page numbering,
- header bar,
- list of contents,
- index,
- device classification and
- its own revision status.

Subject sections form the basis of the manual. A topic section can be simultaneously assigned to several manuals. Subject sections are in one, in some cases two, languages.

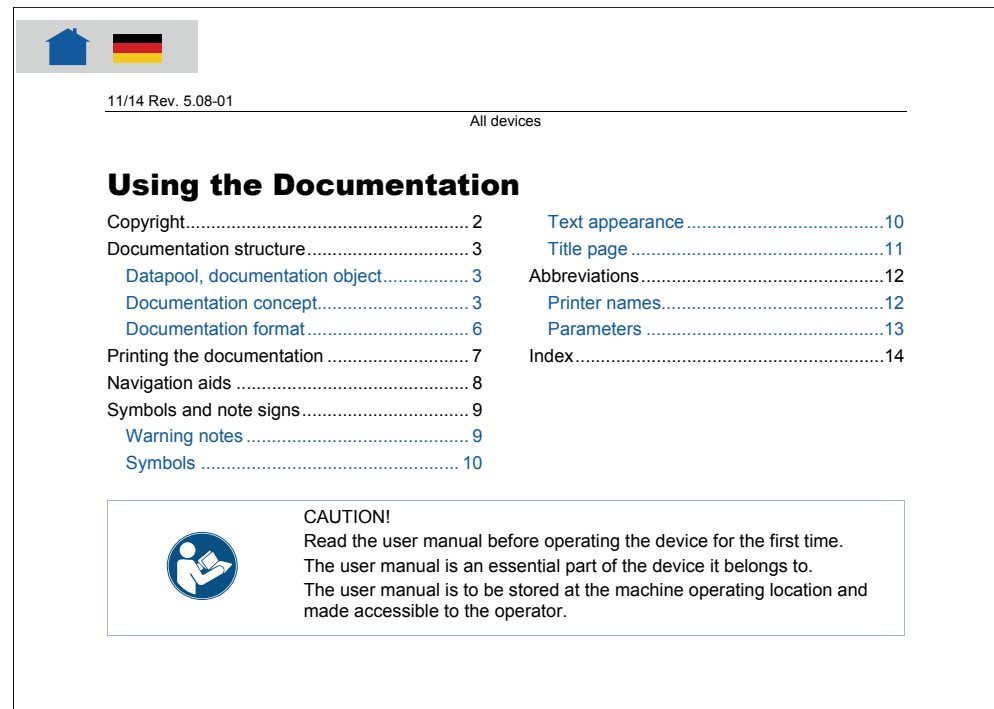


Fig. 1 Example: First page of topic section "Using the Documentation"

Manual

A manual is composed of different topic sections. The following features characterize a manual:

- Title page with a list of contents, device classification and revision status (see Fig. 1).
- The list of contents contains the designations of the topic sections and also serves as a link distributor to these topic sections.
- The contents of a manual refer to a certain device, a device family or an option (documentation object).
- A manual is assigned to a certain language and only contains topic sections in this language.
- A manual is assigned to a certain user group. There are *Service Manuals* (mainly for the Service), *User Manuals* (mainly for the user) and just *Manuals* (for Service and user).

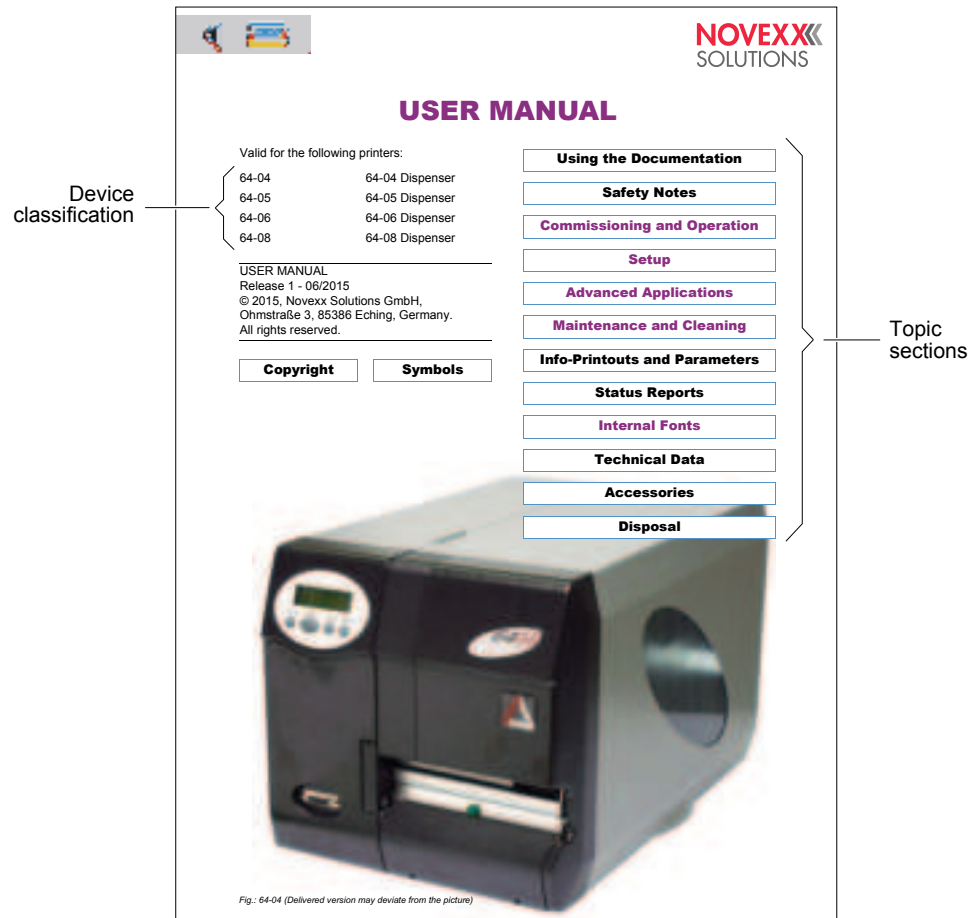


Fig. 1 Each Manual title page provides a list of topic section in its right half.

To a certain extent manuals are only virtual, as the same topic section can be simultaneously assigned to different manuals (the topic section physically only exists once).

Subject sections which are only assigned to a single manual are colour-coded on the title page of the manual (in the same colour as the title of the manual, see "Symbols and note signs").

Link page

A link page is only an organisational component of the datapool available on electronic media. The following features characterize a link page:

- Assignment to a single language
- Function as a link distributor to the individual manuals (access to the overall documentation of the corresponding language)
- Function as a link distributor to other components of the datapool provided on the electronic medium (e. g. printer drivers and print and design software in the corresponding language)

Start page

The start page is also only an organisational component and is displayed when the CD starts, or on the Internet on the link to the printer datapool. The following features characterize a start page:

- Assignment is irrespective of the language or multilingual
- Function for the language selection made by the user
- Function as a link distributor to the link page with the selected language.

This gives the following documentation hierarchy:

Hierarchy

1. Start page (selection of the language)
2. Link page (selection of the manual)
3. Manual title page (selection of the topic section)
4. Subject section contents page (selection of the subtheme)

In most cases, the subtheme selected in step 4 equates to the information being searched for. For instance, the selection of the status number in the list of contents of the topic section leads straight to the description of this status number.

Documentation format

All elements of the printer overall documentation are in Adobe PDF (Portable Document Format). This has the following practical advantages:

Printing

- The documents can be printed in the required quality irrespective of the printer type and the fonts which are used.

Memory

- Less memory is required for saving the document due to differentiated data compression (faster loading, faster printing).

Internet

- Internet compatibility due to the relatively small amount of data.

License

- Simple distribution without the need to purchase licenses (Adobe Reader licenses are provided free of charge by Adobe worldwide and in many languages).

Platform

- Can run on different platforms (Windows/Macintosh/Linux)

Links

- Links within and between Acrobat documents, as well as links to documents in other formats and executable files.
- Other Acrobat Reader functions such as page returns, bookmarks, thumbnails, document-overlapping search function with an automated index, etc.
- More detailed information about the Acrobat Reader is contained in the Acrobat online help.

Printing the documentation

In order to make the documentation readable without a PC, the documents can be printed in A4 as well as in Letter format. For printing, the Acrobat Reader uses the print capabilities of the platform it is run on. The layout of the printed documents equals the appearance on the monitor screen.

Mind the following hints before you start to print:

When printing several manuals, it is not necessary to print out all topic sections starting with the title page.

- Only print out the topic sections marked in black once. These topic sections are referenced from different Manuals. Physically, they consist of the same data.
- Always print out all subjects marked in purple. Reference is only made once in the respective manual to each purple topic section.

When printing all of only one manual, it is necessary to print out all topic sections in this manual starting from the title page.

Example

- In order to print a *user manual*, proceed as follows:
 1. Print the title page.
 2. Click the topic sections on the right half of the title page one after the other. Print each topic section completely.
- In order to print the *service manual* additionally, switch to the title page of the service manual and only click the topic sections written in purple. Print those topic sections. The remaining black topic sections are already printed with the user manual.

Text integration

It is also possible to integrate documentation text (and images) in other documents using the Windows clipboard. As a result, e. g. order information (spare part designations and part numbers) can be used simply and with no additional effort.

- Pay attention to copyright restrictions. Information on this subject can be found under "Copyright".

Navigation aids

Info search

The following options are available for quickly searching for information in the paper documentation:

- The title page of each manual with a list of contents of the topic section
- The detailed list of contents with page numbers on the first page of each topic section
- The own page numbering of each topic section
- The index at the end of each topic section.

Links

In the top left corner of each title page and on the first page of each topic section, you find small graphics, which ease the change back to higher levels of the documentation (see Tab. 1).

Symbol	Meaning
	<i>Triangle</i> : Link to the last opened page.
	<i>Triangle</i> : Link to the last opened page. <i>House</i> : Link to the menu page. <i>Flag</i> : Link to the german page of identical content. On the corresponding german page, a british flag symbolizes the cross-reference to the british page.
	<i>Houses with flags</i> : Links to the menu pages in different languages. Is used in bilingual topic sections (e.g. spare parts lists).

Tab. 1 Navigation aids can be found on the first pages of the PDF-documents.

Symbols and note signs

Warning notes

Warning notes warn of a possibly dangerous situation. Personal injury, material damage or data loss are possible, if care is not taken.

Depending on the dimension of possible damages, the warning notes look different:

- Warning note, which warns of a danger that can lead to injuries, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word “WARNING”, blue frame, blue shaded text field (see below).



WARNING!

Description of the *danger source*.

Description of *possible personal injury*.

→ Measure to avoid personal injury.

→ Further measure to avoid personal injury.

→ ...

- Warning note, which warns of a danger that can lead to material damage or data loss, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word “CAUTION”, blue frame (see below)..



CAUTION!

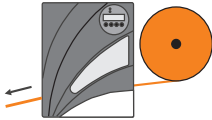
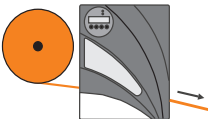
Description of the *danger source*.

Description of *possible material damage*.

→ Measure to avoid material damage.

→ ...

Symbols

	Warning of the risk of injury due to moving or rapidly rotating parts! Long hair, loose jewellery, long sleeves, etc. are not admissible when operating the machine. Wear sufficient personal protection gear.
	Tools required for the described service action.
	Marks additional information, which has not necessarily to be read to operate the machine, but which improves the understanding for the described function.
	Lefthand version (LH version): Symbol marking a text section which refers to the LH version of a device. (Only important for DPM, PEM and ALX 92x)
	Righthand version (RH version): Symbol marking a text section which refers to the RH version of a device. (Only important for DPM, PEM and ALX 92x)
	CE label: Documents the EC conformity of the device.
	Recycling: Notes about disposal. Pay attention to environmental protection!
Arrow at the right bottom corner: paragraph is continued on the following page. 	

Text appearance

(Numbered) Action instructions, introductory text: - follow the sequence!	
	Focus arrow: action instructions, sequence not stipulated.
	Note arrow: special note. Pay attention!
	Focus point: feature, extra paragraph.
	Focus circle: Reference to another text position or info source.
	Exists. Completed. Yes. Applies.
Blue text with link symbol 	Link to other positions in the documentation (click). Exception: In lists of contents, the black text is also linked.

Title page

Link

Black text in the blue frame:
link to topic sections which occur several times in different manuals (click).

Link

Purple text in the blue frame:
link to a topic section which only occurs once and belongs specifically to the manual (click).

Link

Blue text in the blue frame:
A click on the text starts an executable program, e.g. the printer driver unpacking program starting from the "Manual printer driver" title page.

Abbreviations

Printer names

If there is not enough space to call all printers by their full names, the abbreviated spellings listed in Tab. 2 are used.

Spelling	Meaning	Example, note
64-04/05	64-04, 64-05	
64bit series	Printer/Print-Dispenser with 64bit electronics	64-xx, DPM, PEM, ALX 92x
64-xx	Tabletop printer with 64bit electronics	64-04, 64-05, 64-06, 64-08
ALX 92x	Print-Dispenser of the ALX 92x series	ALX 924, ALX 925, ALX 926

Tab. 2 Abbreviated spelling of printers.

Parameters

The notation of parameters is done as follows:

MENU > Parameter name

Example:

INTERF. PARAM. > Interface

(Parameter "Interface" in the menu "INTERF. PARAM.")

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General information

Validity of this manual and required compliance

Contents

The complete operating manual for the ALX 924, ALX925 and ALX 926 print & apply systems consists of the following parts:

- Operating manual (for operating personnel)
- Installation manual (for service personnel)
- Service manual (for service personnel)
- Spare parts catalogue (for service personnel)

This service manual refers exclusively to the machine types listed above. It is to be referred to for correct installation, set-up and adjustment of the label dispenser as well as for undertaking of repairs. In the description of repair, only the replacement of high-wear components is covered. If other components need to be replaced, e.g. after being damaged due to the effects of an external force, please consult the servicing technician at our sales partner.

Technical release

Technical release: 4/2018

Software version: 6.75

Liability

NOVEXX Solutions assumes no liability for damages resulting from improper adjustments or repairs of the machine. It is assumed that only knowledgeable and appropriately qualified persons are to perform installation, adjustment, or repairs.

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Manufacturer

Novexx Solutions GmbH

Ohmstrasse 3

D-85386 Eching, Germany

Tel.: +49-8165-925-0

Fax: +49-8165-925-231

www.novexx.com 

How information is represented

Explanation of symbols

To enhance readability and make information easier to find, different types of information are identified:

→ Instruction with no order of tasks assigned

1. Numbered instructions introduced by preceding text

2. The specified order must be followed!

▮→ Special note for action that must be performed.

⊗ Explanation of an error cause in the reference of error messages.

- Enumeration of features

- Other feature



The Experts symbol identifies activities that are reserved exclusively for qualified and specially trained personnel.



The information symbol identifies notes and recommendations as well as additional information.

Notes about hazards and risks

Important instructions that must absolutely be followed are specially highlighted:



WARNING!

A warning symbol refers to risks that can result in severe or fatal injuries! The note contains safety measures to protect affected persons.

→ Instructions must be followed without exception.



CAUTION!

A caution symbol refers to risks that can result in property damage or personal injury (minor injuries). The note contains instructions for preventing damage.

→ Instructions must be followed without exception.

Illustrations

Illustrations appear in the text where required. References to these illustrations are shown in [square brackets] containing the number of the illustrations. Uppercase letters after an illustration number, for example [12A], refer to the corresponding item within the illustration.

Normally the machine is shown as the right version. The left version is only shown if there is a need to make a distinction.

Key symbols

Keys in the control panel are represented as text, for example "Press the ONLINE key".

Parameters

Parameters in the parameter menu are represented in the format **MENU NAME > Parameter name** in grey type.

Notes on installation and repair work

General information

Before performing any maintenance or repair work:

- Block access to the working area of the machine to unauthorised persons.
- Post a notification sign, which calls attention to the work.

Electro-static discharge:

- When the casing is open, protect the electronics from damage due to electrostatic discharge, e.g. wear an antistatic wrist strap.

Tools:

- Only use suitable tools.
- Ensure all tools are at hand before beginning the work.
- Do not attempt to improvise or to use improper tools, e.g. loosening an interior-toothed screw (Torx) with a hexagon socket driver.

Rubber and plastic parts:

- Do not allow hoses, seals, and other rubber or plastic parts to come into contact with grease, petrol, benzene, kerosene or mineral oil.

Environmental protection

- Avoid unnecessary waste, e.g. use cleaning cloths sparingly and reuse packing material.
- Only store operating materials, such as fresh or used cleaning agents, in suitable containers. Never allow them to enter the sewerage system or to seep into the ground.
- Do not put old batteries, removed parts, and used cleaning agents in household waste. Dispose of them in an eco-friendly manner.

Packaging materials:

Only recyclable materials are used for packaging the machine.

- Dispose of unwanted packaging material in an eco-friendly manner.

Eco-friendly disposal:

- Sort the waste as much as possible, e.g. separate metals from plastics.
- Avoid contaminating the waste if possible.
- Drop off the waste at the collection points provided for that purpose or
- Have the waste collected by suitable recycling agencies.
- Use any on-site options.
- Observe all relevant rules, ordinances, and laws.

Rules for electromagnetic compatibility**Connect all metallic parts to each other via large surfaces, ensuring electric conductivity.**

Only polished metal surfaces are electrically conductive. Painted or oxidised surfaces are unsuitable. Aluminium which appears to be polished still has an invisible oxidation layer on the surface.

Coated or plated surfaces, though electrically conductive, can reach very high resistance values at high frequencies (skin effect).

→ Clean contact surfaces, polish the metal, use fan disks (washers) or mounting plates.

→ Carry out EMC grounding, preferably as a neutral (star) point. A neutral (star) point prevents loops.

When laying the signal lines and power cable, space them apart.

→ Lay all control and signal lines at least 50 cm distant from power cables (e.g. motor line). Minimum distance in the switch cabinet: 20 cm.

→ Spatially lay out all the lines in the switch cabinet as close as possible to the reference potential.

Lead the signal lines into the unit or switch cabinet from one side only.

The more lines that are laid in front and in back between the switch cabinet and the machine, the larger the radiation surface of the radiated electromagnetic energy.

→ Lead the signal lines out of the machine (in one bundle and from one location, if possible) and into the switch cabinet.

Twist together unshielded lines from the same circuit.

This reduces interference effects of various kinds.

Wire inductive components to suitable interference suppressors.

Possible inductive components: Relay, solenoid valve

Possible interference suppressors: Diodes, varistors, RC combinations

→ House all components suspected of being sources of RF interference fields in a closed metal casing (Faraday screen).

Shield all signal and control lines.

→ Ground the shielding on both sides at its large surfaces.

→ For insufficient potential equalisation between the shielding lines: Lay an additional equalisation lead parallel to the shielding with a cross section at least 10 mm².

Avoid equalisation currents in the shielding of the signal lines

Equalisation currents can arise between subassemblies with different grounding conditions.

→ When the grounding conditions are different, only shield the side with the better grounding condition.

→ Only shield both sides when the grounding conditions are the same (e.g. inside a machine).

Power filter

→ Mount the power filter direct at the power supply.

→ Connect the filter casing to the EMC grounding via large metal surfaces.

ALX92x

Lay all lines as close as possible to metal parts, even reserve cables

Freely hanging lines act as transceiver antennas.

→ Ground all reserve cables and unused wires in the cables at least at one end.

Keep the cables as short as possible

Cable resistance and signal distortion increase with the length of the cable.

Safety instructions

Information and qualifications

Ensuring the necessary qualification

→ Let the installation, setup and repair of the machine only be accomplished by appropriately qualified personnel.

→ Let installation and service work at the machine only be accomplished by qualified electricians.

→ Areas of responsibilities for operating and servicing the machine must be clearly defined and consistently observed.

Qualification for system integrators and service technicians

Knowledge required to install the print dispenser and perform service work must be demonstrated through appropriate qualification. Only service personnel with technical training are able to assess the tasks to be performed and recognise potential dangers.

- Knowledge acquired through technical training in mechanics and electronics (for example in Germany the training to become a mechatronics engineer).
- Participation in a technical training course for the corresponding label dispenser offered by the manufacturer.
- The service personnel must be acquainted with the functionality of the label dispenser.
- The system integrator must be acquainted with the functionality of the system into which the label dispenser is being integrated.

Tasks	System integrator	Operator	Service technician
Install the machine	X		
Connect	X		
Make settings	X		
Switch on/off	X	X	X
Insert/change material/ribbon	X	X	X
Application-related settings	X	X	X
Rectify minor operating faults ^a	X	X	X
Clean the machine		X	X
Rectify major operating faults ^b			X
Settings to the electronics/ mechanics			X
Repairs			X
 Manual:	Installation manual, Service manual	Operating Manual	Service manual, spare parts catalogue

[Tab. 1] An example of the distribution of tasks among different qualified personnel.

a) For example faults when detecting labels

b) For example incorrect labelling

Pay attention to the information**WARNING!**

Reliable and efficient operation of the labeller is only guaranteed if all necessary information is observed!

- Carry out the installation, connection, programming, setting, and repairing of the machine exclusively in accordance with the specifications in this manual.
- Observe additional safety and warning notices attached to the labeller.
- Observe and adhere to all relevant ordinances and rules in their applicable form.

Examples:

- Work place regulation
- Accident prevention regulations
- Trade union regulations for occupational safety and health
- Equipment safety law
- Recycling and waste management law

Information must be made available

This service guide

- must be made available to all persons who are entrusted with installing, setting up, adjusting, or repairing the labeller.
- must be maintained in legible condition.
- must be made available to the new owner if the machine is sold.
- Safety and warning notices attached to the labeller must be kept clean and legible. Missing or damaged warning plates are to be replaced.

Machine operating safety**Installation, maintenance****WARNING!**

Improper usage of the machine can lead to accidents, material damage and loss of production!

- When installing the labeller, check for visible shipment damage. Immediately inform Novexx Solutions of any damage.
- When installing the machine on a support stand, make sure that it can not tip over.
- Only put the machine into operation if it is in flawless condition.
- Only perform alterations or conversions to the machine with the consent of NOVEXX Solutions's customer service.
- Only use original replacement parts.

Before starting up the machine:

- Carry out test runs using the task-specific settings under near production conditions.
- Only put the machine into operation after at least one successful test run has been completed.

Protection measures in applicator mode



WARNING!

Danger of crushing between dispenser edge and applicator pressure plate due to applicator movement !

→ Prevent personnel from reaching between dispensing edge and applicator by installing higher-level protective guards ^a.

a) Movable, separating guards according to EN 953

After all servicing or repair work



WARNING!

Risk of an accident due to moving or loose parts!

→ Re-install all covers and safety equipment.

→ Check for firm seating of all screw connections that were loosened during the work.

→ Remove all tools and other aids used during service and repair from the working area of the labeller.

→ Verify flawless functioning of all safety equipment.



WARNING!

This unit operates at mains voltage! Coming into contact with electrically live components can cause potentially lethal electrical shocks and burns.

→ After assembling, check the printer according to the regulations relevant in your country.

Safe operation

Protect against injuries that can result from electrical current



WARNING!

Contact with energised components can result in life-endangering currents through the body as well as burns. The label dispenser is connected with the mains supply!

→ Only allow work on the electronics system to be done by authorised electronics technicians.

→ Observe the following information unconditionally.

Power connection:	Power switch = separator. → If the power switch is not accessible due to the installation position of the machine, a suitable separator has to be provided by the system integrator.
Before any repair work:	→ Detach the machine from power supply. → Check to ensure it is de-energised. → Secure the power supply against unintentional or unauthorised switch-on.
Casing:	→ Before opening the casing pull the power plug. The casing may only be opened by trained personnel and when the machine is de-energised. → Only put the machine into operation when the rear wall of the casing is correctly in place.

If the machine must be switched on while the casing is open for repair or inspection:

→ Never touch energised components. This also applies to components with low voltages.

Ensure the flawless condition of the electrical system:

→ Regularly check the electrical equipment.

→ Only connect the machine to other machines if these meet the requirements for a SELV circuit, in accordance with EN 60950.

→ Re-tighten loose connections.

→ Immediately replace damaged lines.

→ After assembling, check the printer according to the regulations relevant in your country.

Protection against injuries that can result from mechanical actions



WARNING!

Acute risk of injury and long-term bodily injury from working with heavy loads!

→ Lift or carry the machine with a minimum of 2 persons. If possible, use a crane or other lifting device.

→ Only use suitable and defect-free restraining devices during transportation and installation.

→ Never allow the machine to stand with loosened mounting brackets, not even for a short time.

→ If the machine is fastened to a movable support: Ensure it can not tip over.



WARNING!

Risk of accident due to uncontrolled machine start-up!

→ Before doing any repair work, switch off the machine and pull the power plug.



Installation/Deinstallation

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Defining the operating position

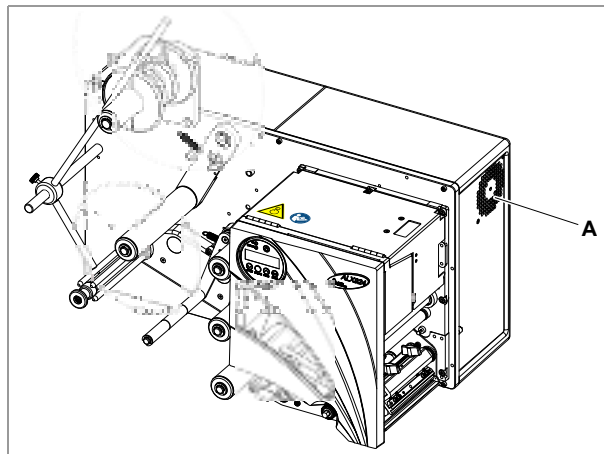
Space requirement

For machine dimensions read the user manual ALX 92x, chapter „Product description“ > „Technical data“ > „Dimensions“.

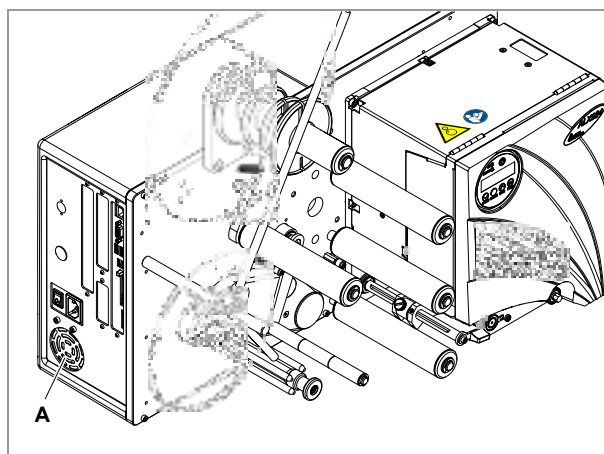
On the machine side facing the operator must be left *at least 1 m* free space for loading and changing of supplies.

At the sides of the machine must be left *at least 0.5 m* free space due to:

- Optimal air exchange at the ventilation openings [1A][2A].
- Accessibility of the mains switch.



[1] Ventilation openings (A) at ALX 92x.



[2] Ventilation openings (A) at ALX 92x.

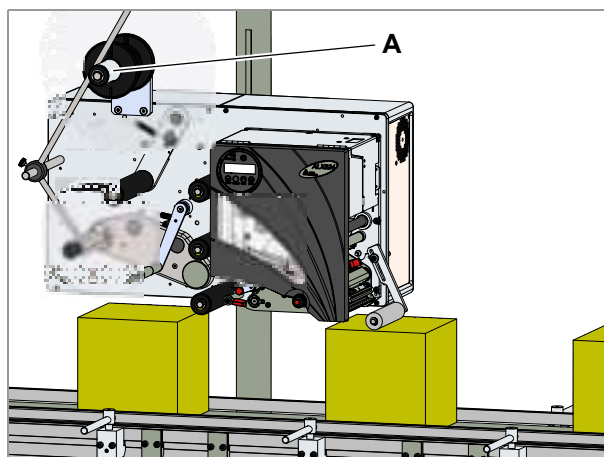
ALX 92x

Admissible operation positions

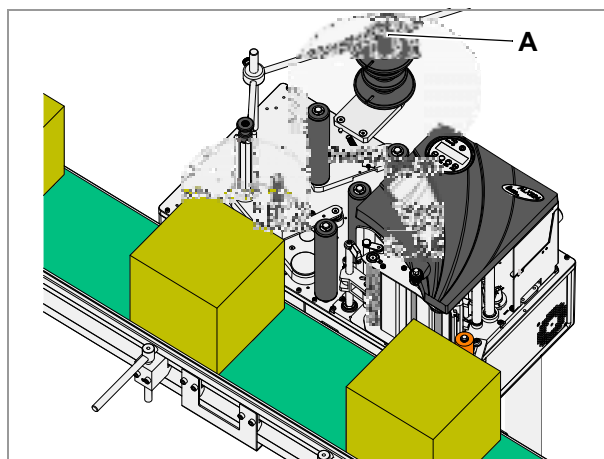
The ALX 92x may be used in all operation positions, in which the axle of the unwinder *doesn't show downwards* [3A][4A]. Those are typically the positions for:

- Top labelling [3]
- Side labelling [4]

For recommended fixtures read chapter [Mounting the machine on a support stand](#) on page 5.



[3] Top labelling.



[4] Side labelling.

Unpacking and assembling the machine

**WARNING!**

Acute risk of injury and long-term bodily injury from working with heavy loads!

→ Lift or carry the machine with a minimum of 2 persons.

Transportation

**CAUTION!**

To avoid damaging the machine during transporting:

→ Only use the original packaging for machine transportation.

→ Keep the original packaging for later transportation.

Unpacking the machine

**CAUTION!**

To avoid damaging the machine during unpacking:

→ Never hold the machine by the deflection rollers, dancer arm, rewinder or unwinder.

→ Lift the machine out of the packaging with at least 2 persons.

▮ Hold the machine by its casing.

→ After unpacking, check the machine for visible shipment damage.

Mounting the machine on a support stand



WARNING!

Risk of injury from a tipping over support stand.

- When installing the machine on a support stand, make sure that it can not tip over.
- Fix the support stand onto the ground.

Prerequisites:

- *Support stand with a tube end providing the following measures:*
 - Outer-Ø: 60 mm
 - Wall thickness: minimum 5 mm
- Second person to hold the machine during installation

Tools:

8/10 mm allen keys

Assembly:

The machine is delivered with the head joint bent downwards [5].

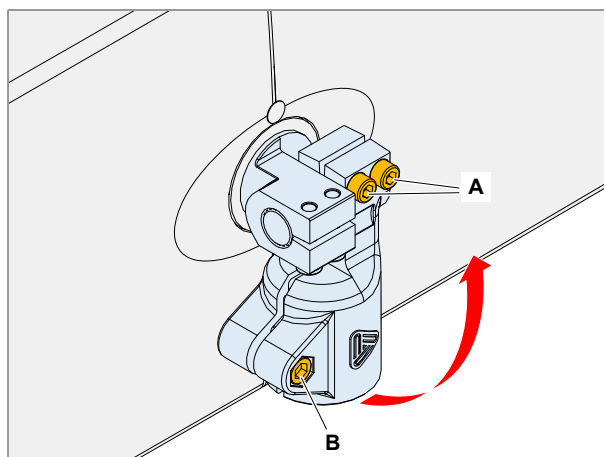
1. Loosen the screws [5A].
2. (1st person) Push the machine with the head joint onto the support stand tube and hold it there.
3. (2nd person) Tighten the clamp screws [6A] and [6B].

■ Tightening torque: 45 Nm

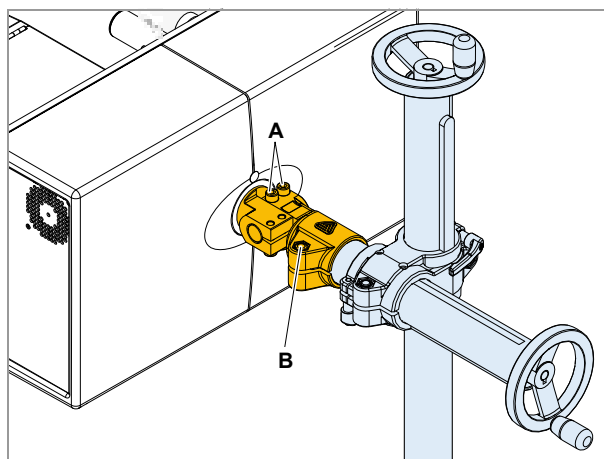
Aligning the machine:

1. (1st person) Hold the machine.
2. (2nd person) Loosen the clamp screws [6A][6B].
3. (1st person) Adjust the machine position.
4. (2nd person) Tighten the clamp screws [6A] and [6B].

■ Tightening torque: 45 Nm



[5] Head joint in the state of delivery.



[6] Mounting to the support stand.

Rotating the machine:

In some installation situations, it may be adequate to turn the machine or the head joint.



WARNING!

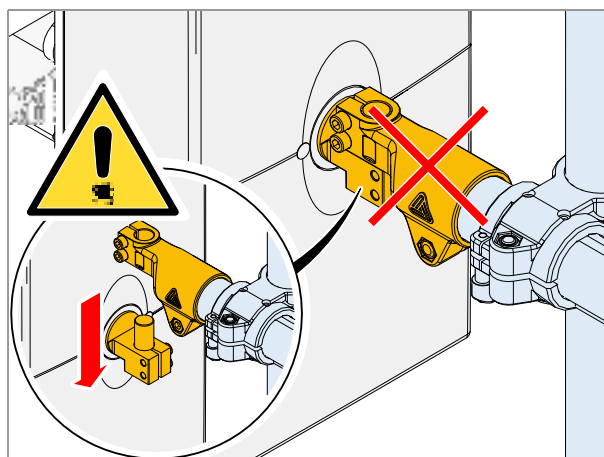
Danger of injury by the machine falling to ground.

This danger exists if the machine is mounted so that the pin in the joint is vertical. If the machine is mounted incorrectly [7], it will fall to the ground as soon as the set screws clamping either the top or bottom half of the joint pin are loosened.

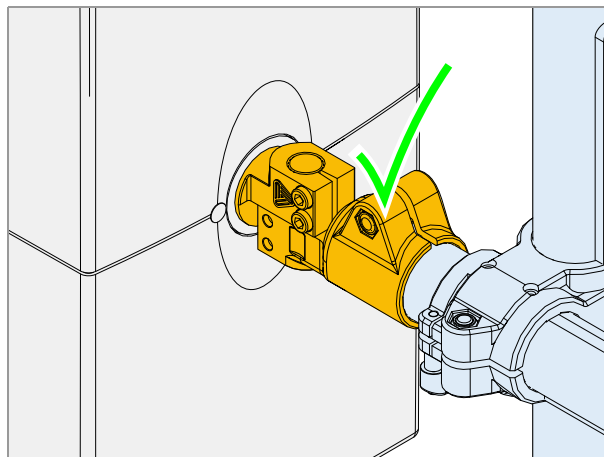
→ Whenever possible, mount the head joint with the pin in the joint in horizontal position.

→ If the machine is mounted for any reason with the head joint pin vertical, the machine side of the joint must point upwards [8].

→ Wear safety footwear during mounting.



[7] INCORRECT! - The machine can fall down, if the clamp screws are loosened.



[8] CORRECT! - The machine can not fall down, if the clamp screws are loosened.

Installing the unwinder

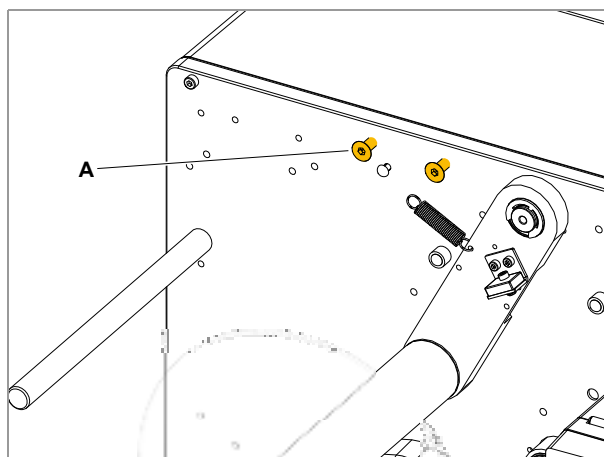
The material unwinder and the guide rods are delivered separately with the machine. The fixing screws are turned into the base plate at the mounting position [9A].

Tool:

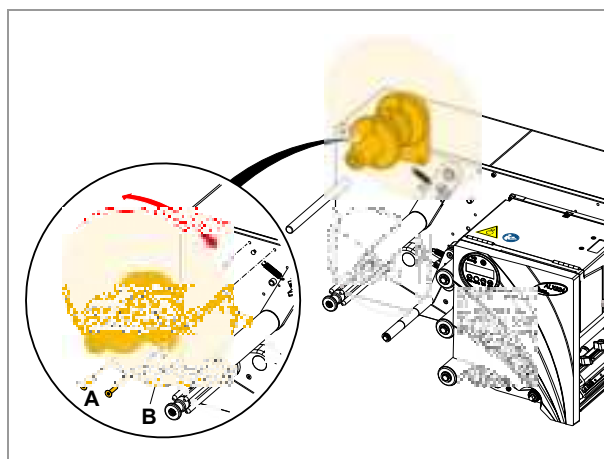
Hex socket screw driver 4 mm

Assembly:

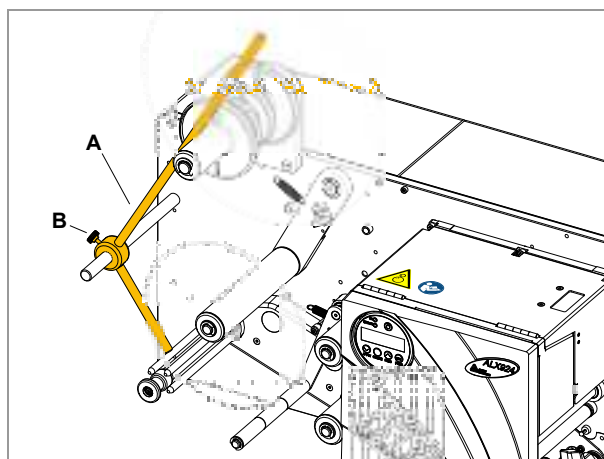
1. Turn the 2 unwinder fixing screws [9A] out of the base plate.
2. Screw the unwinder to the base plate using the 2 screws [9A].
 ■ Turn the plastic disk so that the hole in the disk [10B] is placed above the screw.
3. Put the guide rods [10A] onto the axle and tighten the thumb screw [10B].



[9] Fixing screws (A) in the state of delivery.



[10] Installing the unwinder.



[11] Installing the guide rods.

Electrical connections



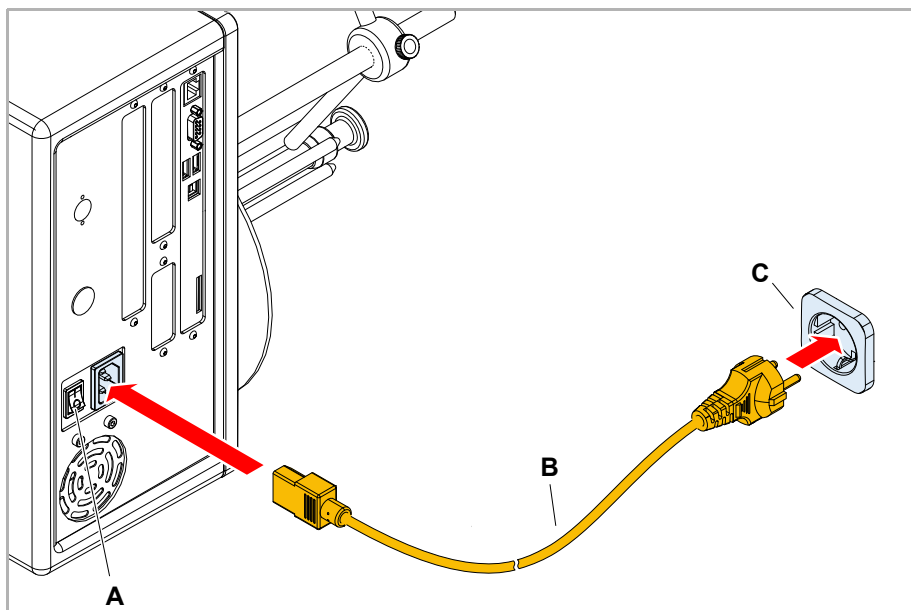
WARNING!

This unit operates at mains voltage! Contacting electrically live components can cause lethal electrical shocks and burns.

- Make sure that the device is switched off before connecting the power cable.
- Only operate the unit at the mains voltage given on the type plate.
- Only connect the device to a grounded power socket fitted to authorised standards.
- The power cable should be run to the device so that a) nobody will trip on it, and that b) the power plug can easily be pulled out if necessary.
- The maximum permitted length of the mains power connecting line is 3 m.
- To disconnect the device completely, the power cable has to be pulled off.

Connecting to the mains power supply

1. Ensure that the machine is switched off (mains power switch [12A] in position "O").
2. Connect the machine to a mains power socket [12C] using the provided power cable [12B].



[12] Connecting the ALX 92x. to a mains power socket.

ALX 92x

Connecting to a data host

According to the factory settings, the ALX 92x is set for data transfer via USB interface. Print data can also be transferred via a serial interface or an Ethernet interface.

Alternatively, print data can be provided on a memory medium.

The interface type is selected with the following parameter: `INTERFACE PARA > EASYPLUGINTERPR > Interface`

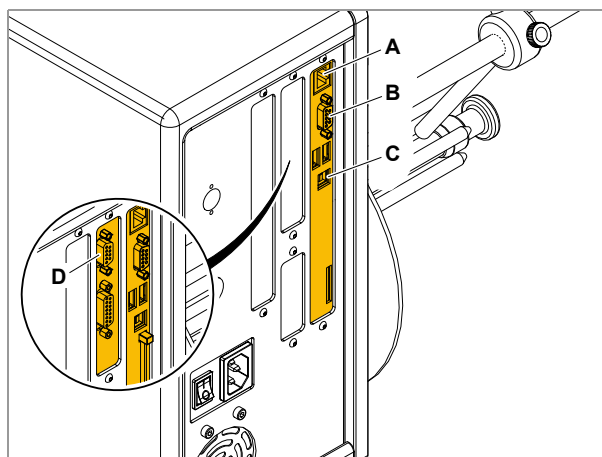
You might have to set other parameters as well, depending on the interface chosen:

- Settings for the serial interface (Com1 or Com3 ¹⁾):
`INTERFACE PARA > >COM1 PORT` or `INTERFACE PARA >COM3 PORT`.
- Settings for the Ethernet interface: `INTERFACE PARA >NETWORK PARAM.`

Information about using the *Ethernet interface* can be found in topic section [Advanced Applications](#) □, chapter „Data transmission with Ethernet“.

For details about *data transmission* read the user manual, chapter „Startup and operation“ > „Printing“ > „Transferring a print job“.

Ordering numbers for power cables or *data cables* can be found in the Service Manual, topic section „Spare Parts“, chapter „Accessories“.



[13] Data interfaces at the ALX 92x.

- A Ethernet
- B RS 232
- C USB
- D RS 232/422/485 (optional)

1) If the optional 2nd serial interface is installed.

Connecting sensors



WARNING!

This unit operates at mains voltage! Contacting electrically live components can cause lethal electrical shocks and burns.

→ The machine must only be connected with other machines if they meet the requirements of a SELV circuit (Safety Extra-Low Voltage circuit) in accordance with EN 60950.



A product sensor can optionally be connected to the USI or to the AI interface. Due to the enhanced setting options (choice between error or warning message), the connection to USI is recommended. Because AI and USI cannot be driven both at a time, the sensor has to be connected to the AI, if the ALX 92x is operated with an applicator.

Product sensor at USI

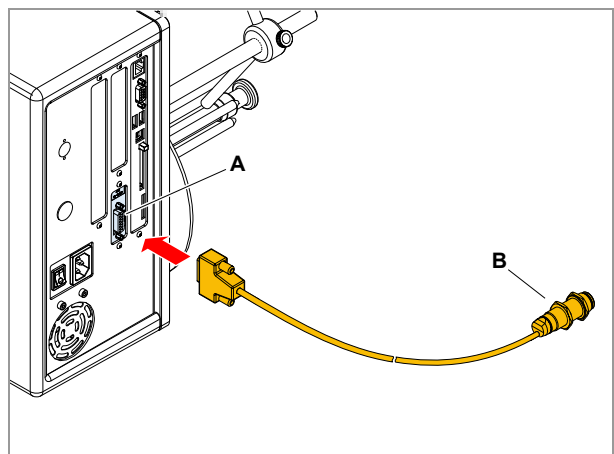
Prerequisite: Machine is equipped with optional signal interface (USI).

- Permitted sensor type: NPN
- Order no.: A2682 (readily assembled NPN sensor for connection to USI [14])

Connection diagram for USI: See service manual, topic section [Electronics Gen. 3](#), chapter „USI board“ > „Circuit diagrams for signal inputs“.



[14] Product sensor for ALX 92x (photoelectric switch, NPN, connector fits USI, Datasensor S50-PA-2-C10-NN, article no. A2682).



[15] Connecting the product sensor (B) to the USI (A).

Product sensor at AI

The product sensor (= start sensor) starts the printing-dispensing process and is therefore indispensable in most applications. These installation instructions refer to the standard sensor offered by NOVEXX Solutions. Alternatively, a sensor with reflector is available (N102108 + N102113). The bracket of the reflector is mounted in the same way as the sensor.

Prerequisites:

- Machine is equipped with optional applicator interface (AI)
- NOVEXX Solutions product sensor (N102107)[16A] ¹
- Bracket for a 12 mm rod (N102105) [16C]
- Connection cable (A100136)[16B]
- (Optional) Mounting block with rod (N102232), suitable for NOVEXX conveyor belts

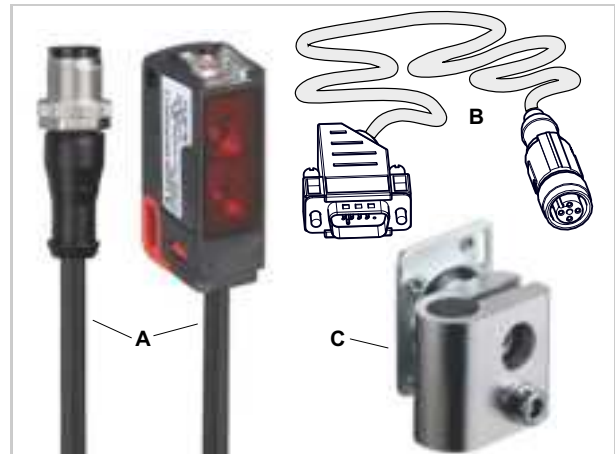
Assembly:

→ Push the start sensor with the holder [17A] onto the holding rod [17B] and tighten the clamping screw [17C].

Connecting:

1. Connect the sensor cable to the cable tail of the sensor [17E] and to the illustrated connection [17D] on the machine
2. Adjust the sensor according to the manufacturer's instructions (comes with the sensor).

For detailed information refer to the service manual, topic section [Applicator Interface](#) □, chapter „Interface Description“ > „Circuit diagrams for signal inputs“ and chapter „Pin assignments“ > „Product sensor connection“.

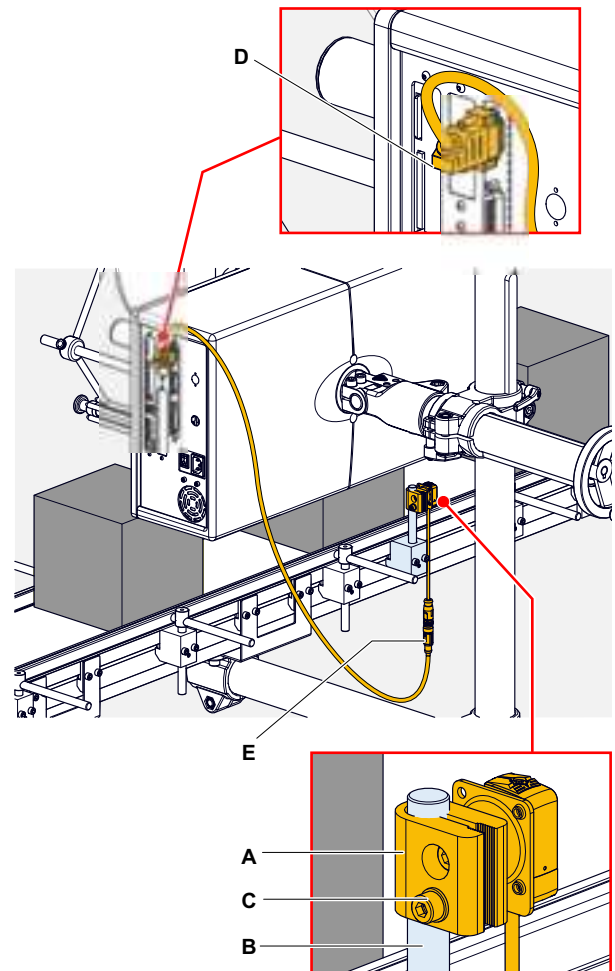


[16] Product sensor complete (article no. N102106)

A Sensor with cable tail (N102107)

B Connecting cable (A7127)

C Bracket (N102105)



[17] Attaching the product sensor.

1) Alternativ kann ein anderer geeigneter Sensor mit M12 4pin-Stecker verwendet werden (Zulässiger Sensortyp: NPN oder PNP).

Sensor for OD detection

Installation see chapter [Installing the OD sensor](#) on page 26.

Connection:

- USI: internal
- AI: internal or external (connector)

If the machine was ordered with OD sensor, the sensor cable is already internally connected at delivery [18].

For information about retrofitting the sensor read the service manual, topic section [Electronics Gen. 3](#), chapter „OD sensor“.



[18] OD sensor cable (A), internally connected to the USI.

Rotary encoder

For the labeller to be used with automatic speed adjustment, a rotary encoder must be connected. The rotary encoder communicates the conveyor belt speed to the label dispenser.

Specifications for suitable rotary encoders

Characteristic	Value
Sensor types	Push-Pull or PNP (Recommended: Push-Pull)
Nominal voltage	24 V (DC)
Output current	20 mA for each connected labeller
Resolution	c. 0.4 mm/pulse
Rise time	1 µs
Decay time	1 µs
Frequency	max. 5 kHz (PNP) max. 20 kHz (Push-Pull)
Pulse/pause ratio	1/1 ±12.5%

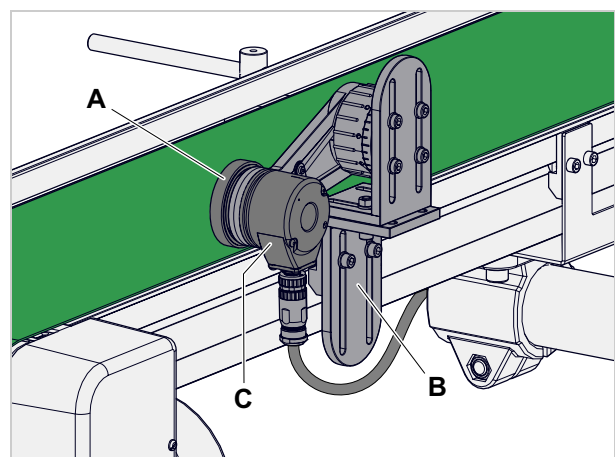
About encoder resolution

The minimum resolution is 5 pulses per millimetre of product movement with a maximum of 32767 steps from detection of the start pulse to dispensing of the label = 0.2 mm resolution.

So between 5 and 20 pulses per millimetre of product movement are ideal.

Novexx rotary encoders

Article no.	Article	Image
N103708	Rotary encoder basic kit	
N103707	Mounting kit	



[19] Novexx encoder (C) with measuring wheel (A) and bracket (B) for mounting on a Novexx Solutions conveyor belt.

[Tab. 1] Article numbers for Novexx rotary encoder and accessories.

Article no.	Article	Image
N103709	Rotary encoder kit	
N103696	Rotary encoder	
N103697	Measuring wheel (200 mm circumference, for 10 mm axle)	
N101829	Connection cable (2 m)	

[Tab. 1] Article numbers for Novexx rotary encoder and accessories.

Connecting the rotary encoder



CAUTION!

To avoid damage to the electronics:

→ Switch the machine off before connecting the rotary encoder.

→ Plug the rotary encoder in to the connector shown [3A].

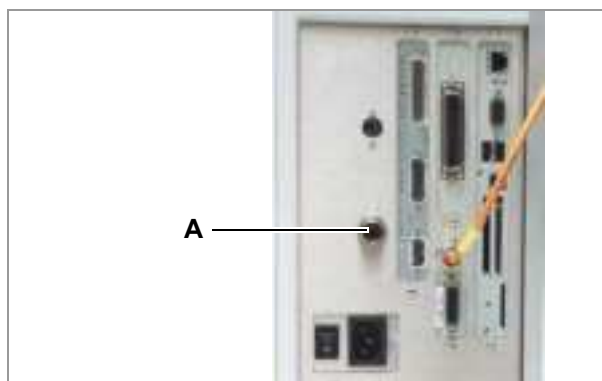
▮ No changeover is necessary for a Push-Pull rotary encoder.

Connecting a M12 connector:

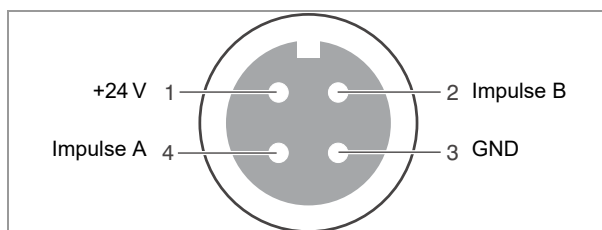
Pin	Common wire colors	Function
1	Brown	+24 V
2	White	Impulse B
3	Blue	Ground
4	Black	Impulse A

For details on how to set up an encoder and operate with automatic speed adjustment (APSF), see chapter [Installing APSF](#) on page 16.

Connection diagram



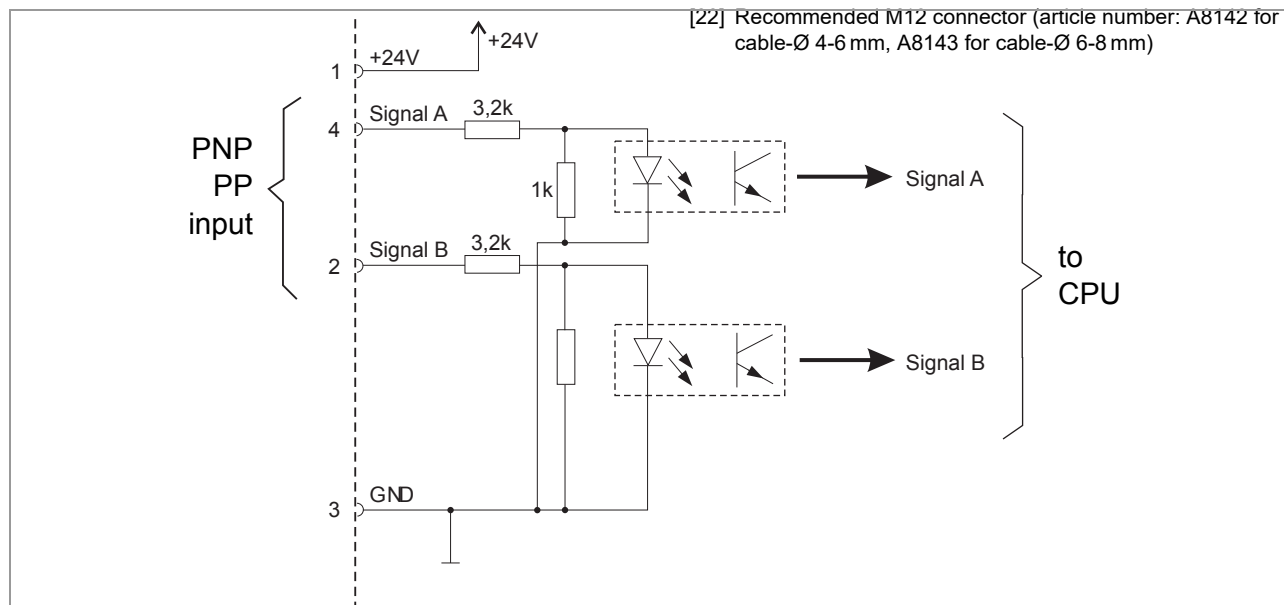
[20] Connection (A) for rotary encoder.



[21] Pin assignment rotary encoder connection



[22] Recommended M12 connector (article number: A8142 for cable-Ø 4-6 mm, A8143 for cable-Ø 6-8 mm)

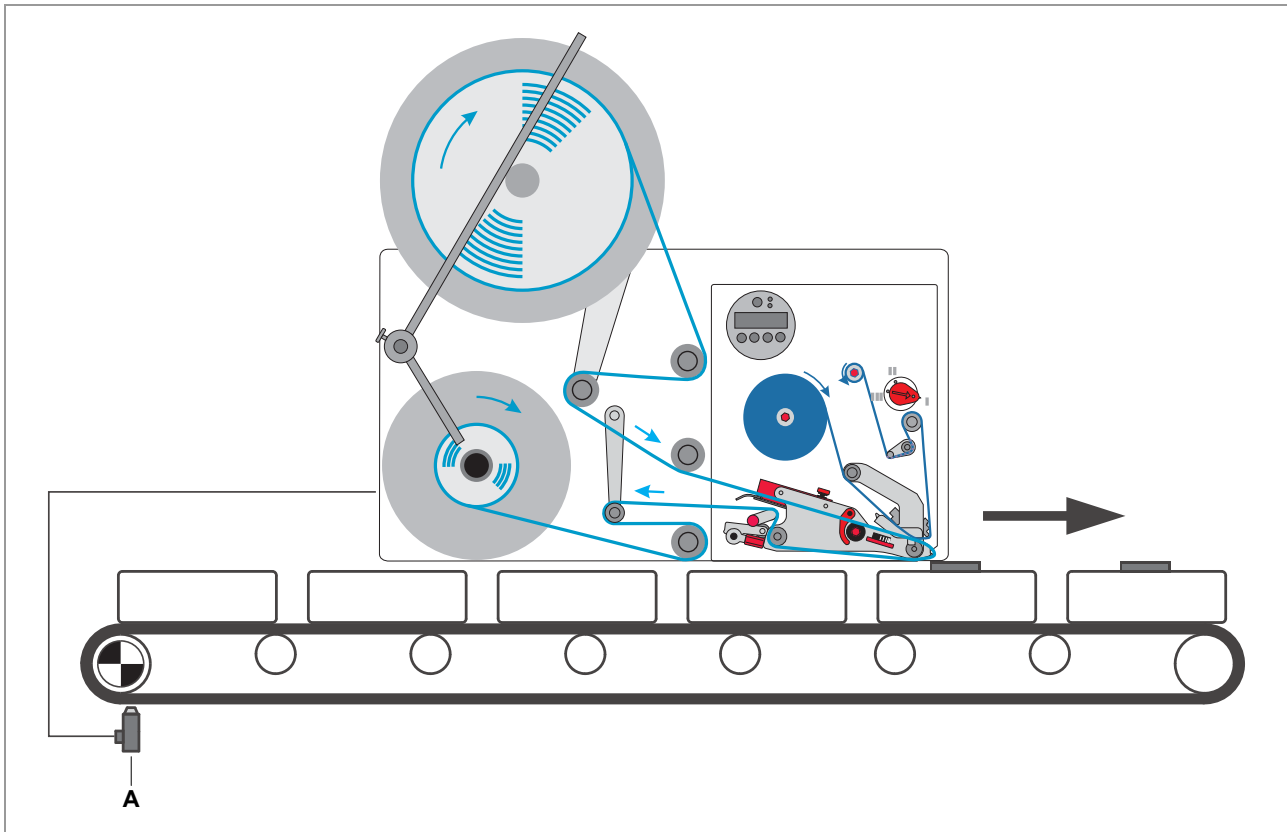


[23] Connection diagram rotary encoder.

Installing APSF

Principle of operation

APSF = Automatic Product Speed Following.



[24] Rotary encoder (A) on the conveyor line (schematic)

The automatic dispensing speed adjustment makes it possible to automatically adapt the dispensing speed to the speed of the conveyor belt.

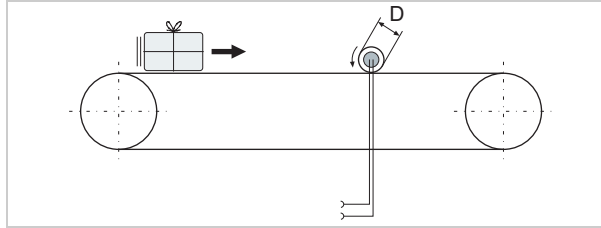
The conveyor belt and the label feed operate in perfect synchronisation thanks to the automatic speed adjustment. If the conveyor belt stops while a label is being dispensed, the label feed will also stop. If the conveyor belt starts up, the label feed will be activated automatically.

The speed of the conveyor belt is picked up by a rotary encoder [24A] and transmitted to the control system of the labeller. The rotary encoder is not included in the scope of delivery of the labeller.

Connecting the rotary encoder: see chapter [Rotary encoder](#) on page 44.

Mounting the rotary encoder

Rotary encoder with measuring wheel at the conveyor belt

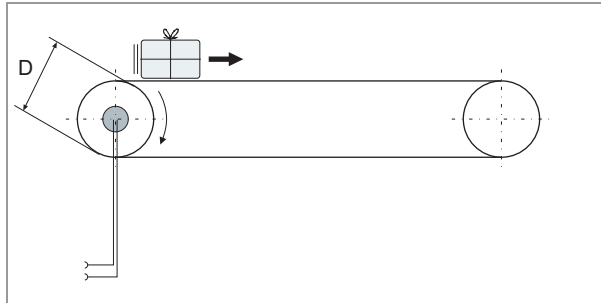


[25] Mounting the rotary encoder with measurement wheel at the conveyor belt. D = Diameter of the measurement wheel.

A measuring wheel translates the conveyor belt movement into rotation of the rotary encoder shaft.

Diameter of the measuring wheel [25D] and resolution (impulses per rotation) of the rotary encoder can be entered directly in the function menu.

Rotary encoder on the drive axle of the conveyor belt



[26] Mounting the rotary encoder onto the driving axle of the conveyor belt. D = Diameter of the driving gear.

With this mounting option, the rotary encoder is mounted directly onto the drive axle of the conveyor. In this case, the driving gear of the conveyor belt takes the part of the measuring wheel. Accordingly, the diameter of the driving gear [26D] must be entered into parameter DISPENSER PARA > Encoder Diameter.

Rotary encoder at the motor axle

The rotary encoder is mounted onto the motor axle. The rotation speed of the motor is normally transmitted via a reduction gear to the driving axle of the conveyor belt.

The reduction ratio of the gear (motor axle rotates faster than drive axle) must be considered, when entering the rotary encoder data. This can be done on two ways:

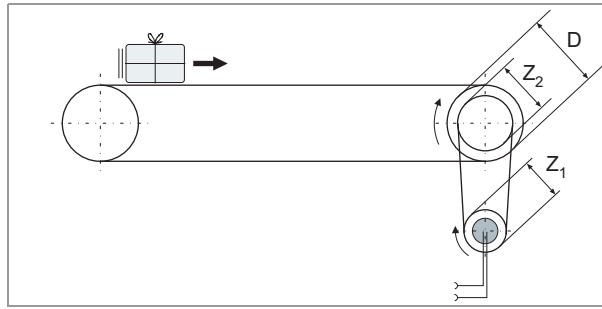
→ Entering a reduced measuring wheel diameter D' regarding the following:

$$D' = \frac{D}{G} = \frac{D \cdot Z_1}{Z_2}, \text{ with Reduction gear ration } G = \frac{Z_2}{Z_1}$$

→ Entering a increased resolution I' , regarding the following: $I' = I \cdot G = I \cdot \frac{Z_2}{Z_1}$

► Mind the setting range of the parameters „Diameter“ and „Resolution“!

ALX92x

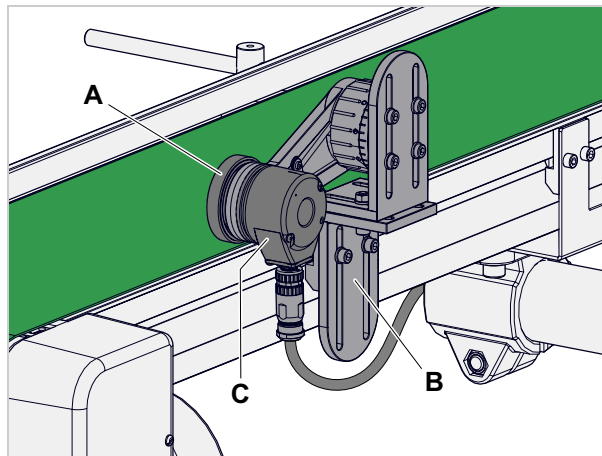


[27] Mounting the rotary encoder on the motor axle.

Entering the rotary encoder resolution

1. Call DISPENSER PARA > Encoder Resol.
2. Enter the resolution of the rotary encoder to be used.
Adjustment range: [0.0...9999] pulses/revolution
 ■■■► Consider the gear ratio (see above)

Entering the diameter of the measuring wheel



[28] Installed rotary encoder.

The measuring wheel [28A] translates the conveyor belt movement into rotation of the rotary encoder shaft [28C]. The diameter of the measuring wheel therefore influences the rotational speed of the rotary encoder.

1. Call DISPENSER PARA > Encoder Type
2. Enter the diameter of the measuring wheel to be used.
 ■■■► Adjustment range: [0.0...200.0] mm

Entering the rotary encoder type

Depending on the features of rotary encoder and label dispenser, there are different ways to count the impulses generated by the rotary encoder:

1. Call DISPENSER PARA > Encoder Type.
2. Enter the type of measuring wheel which is mounted on the rotary encoder shaft (further details see below)

Single-phase operation Only one phase of the encoder signal (signal A) is utilized.

Advantage:

Less expense (as with double-phase)

Disadvantages:

- Lower resolution (as with double-phase)
- If the conveyor is standing still, vibrations can produce „faulty“ signals, which the labeller cannot distinguish from „real“ signals.

Double-phase normal operation

Many rotary encoder produce a second signal (signal B), which is out of phase by 90°. Using this signal can overcome the restrictions of single-phase operation.

Advantages:

- Detection of the rotational direction, even when standing still
- Double resolution

Disadvantages:

- Higher expenses (the sensor must be able to produce signal B, the labeller must be able to utilize it)
- The rotational direction must be configured

Double-phase inverted operation

If the phase relationship (leading or trailing) between the sensor signals A and B doesn't match the counting direction of the labeller, the labeller calculates nonsense speed values. The following measures correct this problem:

- Operating the rotary encoder in opposite direction (e. g. by mounting it on the opposite side of the conveyor), or
- Changing the cables, that is exchanging A and B, or
- Connecting the inverse signal /B instead of B, or
- Configuring the inversion of signal B at the labeller:

→ Set DISPENSER PARA > Encoder Type to „2 Phases invert.“

Input of encoder data

Example: Entering the values for the recommended rotary encoder

Setting resolution:

→ Set DISPENSER PARA > Encoder Resol. to "500 Pulses/Turn".

Setting measuring wheel diameter:

→ Set DISPENSER PARA > Encoder Diameter to "63.7 mm".

Switching on speed adaption:

→ Set DISPENSER PARA > Speed Adaption to "On".

Calibrating the belt speed

After calling DISPENSER PARA > Encoder Diameter the following is displayed:

Encoder Diameter	
x.x	yy.y var

- x.x = diameter of measuring wheel
- yy.y = belt speed according to current measurement
- var = indicates *variable* belt speed

If the actual belt speed is known, the measured speed can be synchronised with it as follows:

→ Increase or decrease the diameter of the measuring wheel until the belt speed displayed matches the actual speed.

Compensation time with applicator operation

Most applicators have a constant stroke time. If the labeler is driven with variable speed, this leads to different label positions on the product. With a slow conveyor speed, the touch down comes too early, with a high conveyor speed, it is too late. With the stroke time entered in the parameter APPLICATOR PARA > Apply comp. time, the control corrects this effect, and therefore improves the labelling precision.

■▶ Prerequisite: APPLICATOR PARA > Applicator type is *not* set to „Direct Dispense“.

Setting instruction:

1. Setup the print-dispense-apply-process with a slow conveyor speed.
2. Turn the conveyor speed high.
3. Adjust the labelling position by increasing Apply comp. time step by step, until the labelling position is correct.

When the compensation time is added, depends on the setting of the apply mode (APPLICATOR PARA > Apply mode):

- Apply mode = „After print“: Compensation time is added after the „dispense end“ signal
- Apply mode = „After start sig.“: Compensation time is added after the start signal

Installing options

Options overview

Options, which are not easy to install, can be ordered as factory-installed together with the machine. For detailed information ask your sales representative.

Pictures of the options: see user manual, chapter „Product description“ > „Options“.

The article numbers listed in the table refer to retrofitting kits for after-sales installation.

Option	Article number	Installation instructions
Remote operator panel	A8719	See Remote operator panel  on page 22 Installation of the internal cable harness: See service manual, topic section Mechanics  > „Remote operating panel“
Connection for rotary encoder	A8382	Installation of the internal cable harness: See service manual, topic section Mechanics  > „APSF Rotary-Encoder“ > „Assembly of internal cables (ALX 92x)“
Centronics interface	A6758	See service manual, topic section Mechanics  > Boards For information about boards read the service manual, topic section Electronics Gen. 3  > „Centronics daughter board“, „I/O board“ or „USI board“
RS232/422/485 interface	A8259	
Signal interface (USI)	A2062 (5 V) A2345 (24 V)	
Applicator interface (AI)	A5207	See service manual, topic section Applicator interface 
OD sensor	A3523 (@USI) A104070 (@AI)	See Installing the OD sensor  on page 26
Ribbon core adapters	A3674 (4/5" LH) A3676 (4/5" RH) A3678 (6" LH) A3679 (6" RH)	Installation is done by pushing the adapters on the mandrels
Pressure roller	A2800 (4/5") A2874 (6")	See Pressure roller  on page 23
Long dispensing edge	A3006 (4/5" LH) A3507 (4/5" RH) A3010 (6" LH) A3509 (6" RH)	See service manual, topic section Mechanics  > Print module > Dispensing edge
Product sensor	A2682 (@USI)	See Product sensor at USI  on page 10
Applicator LA-TO	A9191 (LH) A9292 (RH)	See LA-TO (XL) TD Operating Manual 
Applicator LTP	A5198 (LH) A5202 (RH)	See LTP/LTPV User Manual 
Applicator LTPV	A5200 (LH) A5210 (RH)	

Option	Article number	Installation instructions
Applicator LA-BO	A8679 (LH) A8680 (RH)	See LA-BO Technical Manual
Applicator LA-SO	A9958 (LH) A9866 (RH)	See LA-SO User Manual
Dust filter	A6206	See service manual, topic section Mechanics > Housing > Dust filter (ALX)
WLAN-CF-card	A7456	See service manual, topic section Advanced Applications > Data transmission with WLAN
Splice table	A107828	See Splice table on page 24
Signal beacon	A100493	See Signal beacon on page 25

Remote operator panel

Important notes

A remote operator panel is necessary, if the machine is installed at an inaccessible place, where the standard operator panel can not be reached.

➡ Remote and standard operator panels can be used alternately.

The machine-side connector [1B] for the operator panel is an option. If the option was ordered with the machine, the connector will be ready installed.

For information about retrofitting the connection read the service manual, topic section [Mechanics](#) , chapter „Remote operator panel“.

Connecting



CAUTION!

if the connection cable is longer than 2.5 m, EMC-caused disturbances can occur.

- ➡ Only use the factory-installed cable.
- ➡ Don't extend the cable.

➡ Plug the operator panel [1A] to connector [1B].

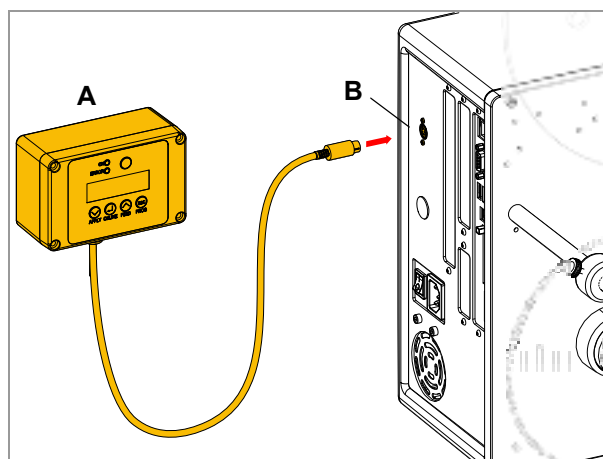
Wall mounting

Tool:

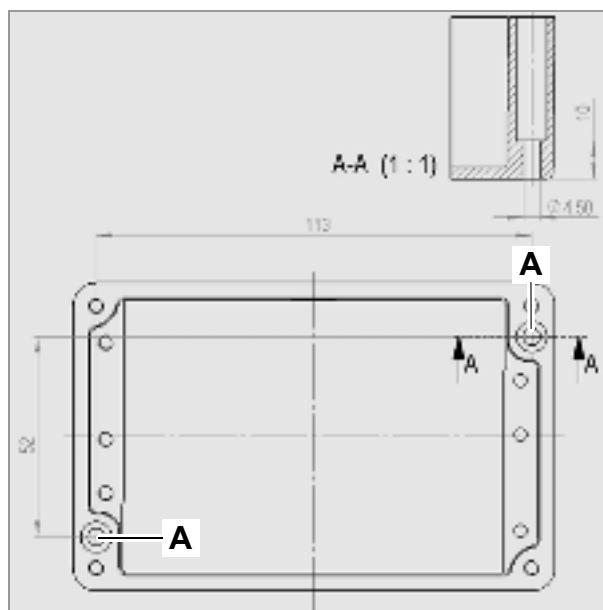
Cross-head screwdriver sizes 3/5

Mounting:

1. Drill 2 holes according to the distances in the drawing [2A].
2. Open the operator panel housing (4 screws).
3. Mount the lower part of the housing to the mounting surface using 2 M4 screws.
4. Close the operator panel housing.



[1] Connecting a remote operator panel (A).



[2] Hole distances for wall mounting or the remote operation panel.

Pressure roller

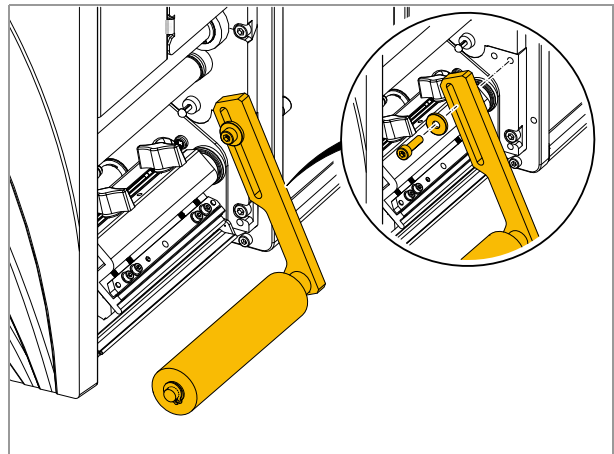
The pressure roller is required, if the label is attached directly from the dispensing edge onto the product.

Tool:

Hex socket screwdriver 4 mm

Assembly:

1. Screw the pressure roller to the base plate of the ALX 92x [3].
■▶ Don't tighten the screw.
2. Align the pressure roller [4].
■▶ The foam roller should roll on the label with slight pressure.
3. Tighten the fixing screw.



[3] Installing the pressure roller.



[4] Application example of the pressure roller.

Splice table

With the splice table option, the end of the preceding material roll can be taped to the beginning of the new roll. Thus, the material doesn't have to be fed through the whole machine for each new material roll, what reduces the downtimes for material change.

Prerequisites:

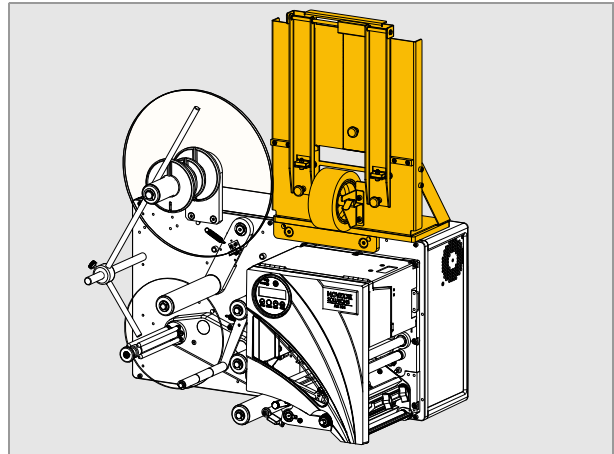
- A107828 Splice table with adapter plate
- Mounting holes in the base plate [7] (must be drilled supplementary at older machines)

Tool:

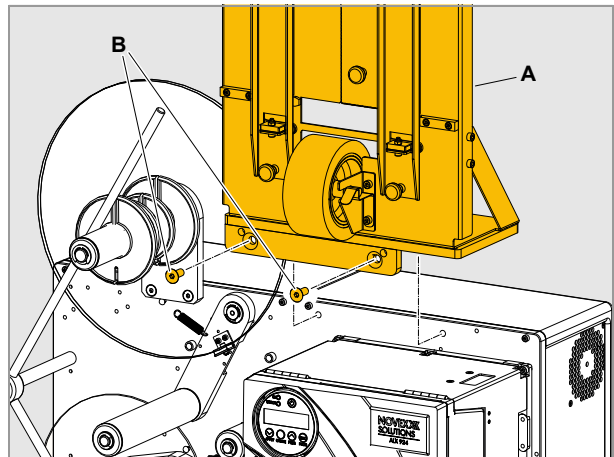
Hex socket screwdriver 5 mm

Assembly (RH machine):

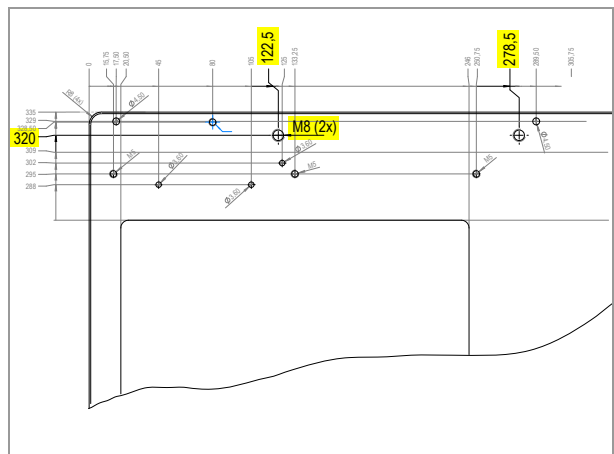
→ Screw the splice table [6A] to the base plate of the machine using the 2 screws [6B].



[5] Splice table on an ALX 92x.



[6] Mounting the splice table (A).



[7] Measures for the required mounting holes in the base plate (yellow marked).

Signal beacon

NOVEXX Solutions offers a ready to use signal beacon for the ALX 92x. The LED lamps of the beacon show the colors red-yellow-green. The beacon is connected to the applicator interface, using the optional available cable.

The beacon can signal the following machine states:

- Error (red)
- Warning (yellow)
- Ready (green)

Article numbers:

- *Applicator interface*: A5207
- *Signal beacon* (with holding tube and mounting socket, without cable): N102104
- *Connecting cable*: N100492

Tools:

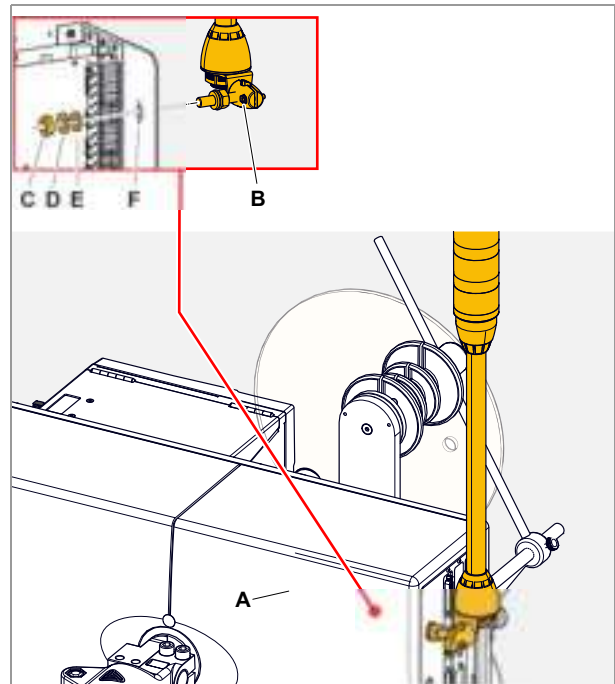
- Hex socket screwdriver 4 and 8 mm
- Spanner SW 17 (2x)

Assembly:

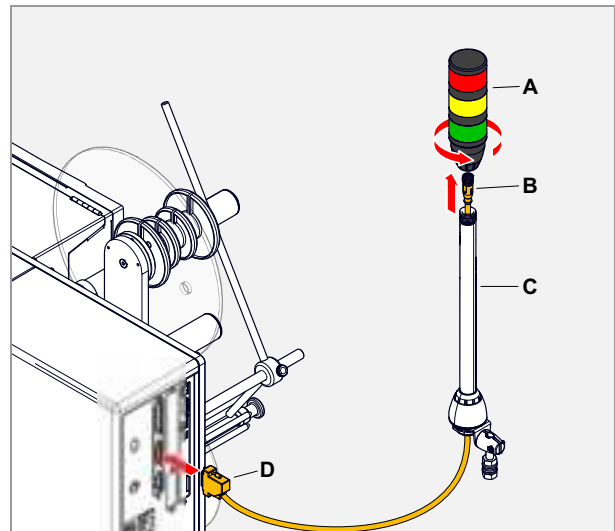
1. Remove the rear hood [8A] on the unwinder side of the machine.
How to? - See topic section „Mechanics“, chapter „Housing“ > „Rear hood (ALX)“.
2. Loosen the clamping screw [8B] at the socket of the signal beacon, swivel the mounting screw to the side and retighten the clamping screw.
3. Remove nut [8A], washer [8B] and lock washer [8C] from the mounting screw.
4. Insert the signal tower with the mounting screw through the upper opening in the side wall.
If present, first remove the cover cap from the opening.
5. Place the lock washer and washer on the mounting screw from the inside; screw on the nut.
6. Tighten the nut while holding the outer nut in place.
7. Re-attach the rear hood.

Connecting:

1. Unscrew the lamps [9A] from the holding tube [9C].
2. Push the cable with the M12 connector through the holding tube and connect the connector [9B] at the bottom of the lamps.
3. Screw the lamps back onto the holding tube.
4. Connect the D-Sub plug [9D] of the cable to the AI.



[8] Mounting the signal beacon.



[9] Connecting the signal beacon to the AI.

Installing the OD sensor

If the ALX 92x was ordered with OD sensor, the sensor bracket comes loosely enclosed. The sensor cable is already connected.

For retrofitting the OD sensor, the sensor cable has to be connected first. For an instruction read the service manual, topic section [Electronics Gen. 3](#), chapter „OD sensor“.

Tool:

Hex socket screwdriver 3 mm

Assembly:

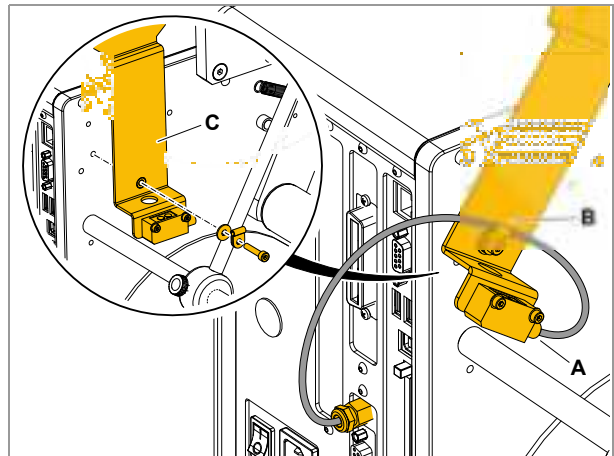
1. Connect the sensor cable to the sensor [10A].
2. Insert the cable into the clamp at the marked position [10B].
3. Screw the sensor bracket [10C] to the base plate as shown.
 ■► Install the bracket *behind* the unwinder plastic disk.
4. Screw the sensor bracket to the unwinder holder using the wing screw [11].

Setting:

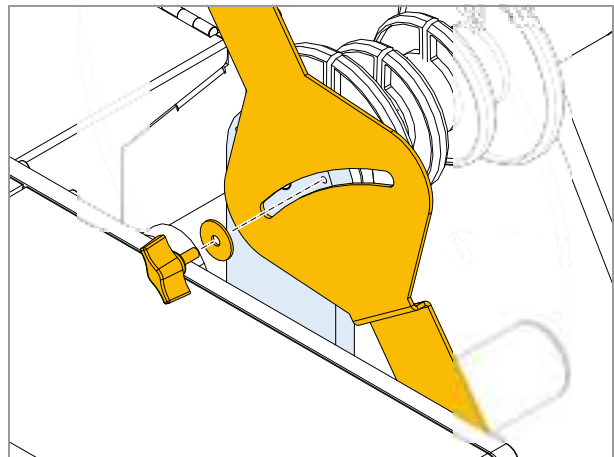
1. Insert a label roll with the required minimum diameter [12B].
2. Loosen the wing screw at the sensor bracket.
3. Swivel the bracket until the light beam of the sensor is just not interrupted by the roll (watch the LED at the sensor).
4. Fix the sensor bracket in this position.

Information about the OD sensor function:

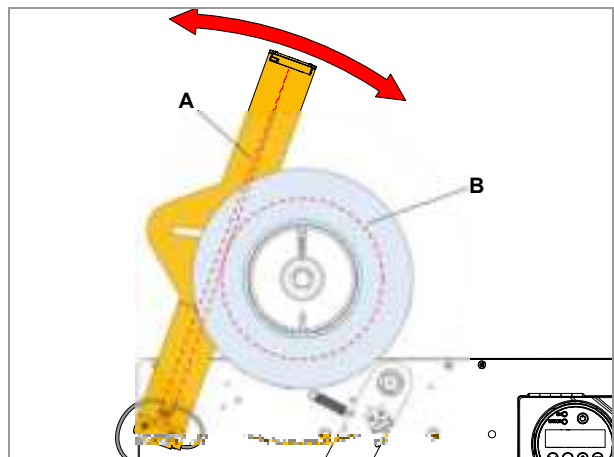
User manual, chapter „Startup and operation“ > „Setting and monitoring the machine“ > „Monitoring functions“.



[10] Installing the OD sensor bracket.



[11] Installing the OD sensor bracket.



[12] Setting the OD sensor.

- A Light beam of the sensor
B Set minimum diameter

Selecting consumables

Thermal transfer / direct thermal printing

The ALX 92x can print onto label material using the direct thermal mode or thermal transfer mode.

Direct thermal	Direct thermal printing is done <i>without ribbon</i> . The direct thermal process requires label material with a temperature-sensitive coating. The printout is produced by applying precise bursts of heat to the material under the printhead. This changes the colour of the coating.
Thermal transfer	Thermal transfer printing is done <i>with</i> (thermal transfer) <i>ribbon</i> on “normal” label material. The printout is produced by applying precise bursts of heat to the thermal transfer ribbon under the printhead. This transfers the colour particles to the label.

Label material

The ALX 92x was developed for printing on self-adhesive stock.

Pay attention to the following factors when selecting label material:

- The roughness of the material surface
- The printhead temperature required for the colour transfer
- Size of the material roll. The following dimensions need to be checked: Outside-/inside diameter of the material roll and the material width

Material roughness	If the material is very rough, the printhead will be worn down more quickly than when using a smooth material. This is an important aspect of thermal printing. With thermal transfer printing, this doesn't pose such a problem, because you can – and indeed should – select a ribbon that is wider than the material. This means that the printhead is protected over the entire width of the material.
Printhead temperature	High printhead temperatures can similarly cause problems. The material and the ribbon take longer to cool. As a result, the print quality may degrade – particularly at high print speeds. The printhead also wears down more quickly. ► The printing result is highly dependent on the right combination of label material and thermal transfer ribbon. The surface of the label material determines which thermal transfer ribbons produces the best adhesion. Unsuitable ribbons can lead to poor printing results. Further information can be found in the User Manual ALX 92x, chapter „Product description“ > „Technical Data“ > „Label material“.

Thermal transfer ribbon

The following is recommended for thermal transfer ribbons:

- The back of the ribbon should be coated so that it produces no static or friction (Backcoating). If this isn't the case, the printhead may be damaged by static discharge coming off the ribbon surface.
- The ribbons need to be designed for "corner edge" printheads.
- Ribbons should be able to handle print speeds of up to 400 mm/s (16 ips).
- Size of the ribbon roll: The following dimensions need to be checked: outside/in-side diameter of the ribbon roll, ribbon width.



CAUTION! - Thermal transfer ribbons without these properties can degrade the performance of the printer and the print quality as well as damage the printhead!

The ribbon with ordering no. 10387-600-xxx is a recommended ribbon type.

- The thermal transfer ribbon should only be slightly wider than the label material.
 - If an *overly narrow ribbon* is used, the border of the label material interferes with the printhead – which wears it down more quickly.
 - If an *overly wide ribbon* is used, creasing may occur in the ribbon. This can lead to poor printing results.

Further information about suitable thermal transfer ribbon can be found in the User Manual of the machine, chapter „Product description“ > „Technical Data“ > „Thermal transfer ribbon“.

Decommissioning, Dismantling, Disposal

Take the machine out of operation

Disconnecting the machine from the compressed air supply (only machines with installed applicator):

1. Switch off the compressed air supply of the applicator.
2. Disconnect the compressed air hose from the applicator.

For details read the applicator installation manual.

Disconnect the machine from the power supply:

1. Switch the machine off at the mains switch (switch position „0“).
2. Pull out the mains plug from the mains socket or disconnect the power cord from the electrical cabinet.
3. Disconnect all cables at the machine.

Dismantling the machine

Machine with installed applicator:

➔ Remove the applicator.

For details read the applicator installation manual.

1. Dismantle the unwinder.
See chapter [Installing the unwinder](#) □ on page 7.
2. Dismantle the machine off the support stand.



WARNING!

Danger of injury by the machine falling to ground.

- ➔ Let the machine be hold by at least 2 per-sons, while a 3rd person loosens the clamping at the support stand.
- ➔ Wear safety footwear.

Acute risk of injury and long-term bodily in-jury from working with heavy loads!

- ➔ Lift or carry the machine with a minimum of 2 persons. If possible, use a crane or other lifting device.

See chapter [Mounting the machine on a support stand](#) □ on page 5.

3. Strip the machine from the support stand tube and lay it down.



CAUTION!

To avoid damaging the machine during transport:

- ➔ Never hold the machine by the deflection rollers, dancer arm or rewind or unwind unit.

Machine disposal

■ It is advisable to remove reusable machine components as long as the machine is firmly mounted.

1. Remove machine parts which can be reused (e. g. applicator, applicator interface, dispensing edge holder, dispensing edge).
2. Dispose of the remaining machine parts separated by material groups in an environmentally acceptable manner.

■ Observe the national regulations.

■ We recommend to put a company in charge, which is specialized in machine disposal.

■ Dispose of waste properly, i.e. sorted according to the material groups of the parts to be disposed of. The aim should always be to achieve a maximum possible reutilisation of the basic materials combined with the minimum possible environmental impact.



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Printing with temperature compensation

Requirements

- Suitable printers: All devices listed in the headline of this document
- Firmware: All versions

Function description

The print contrast is heavily dependent on the temperature of the printhead. This can be set using the parameter `SYSTEM PARAMETERS > Print contrast` or in the online mode after pressing the Esc button.

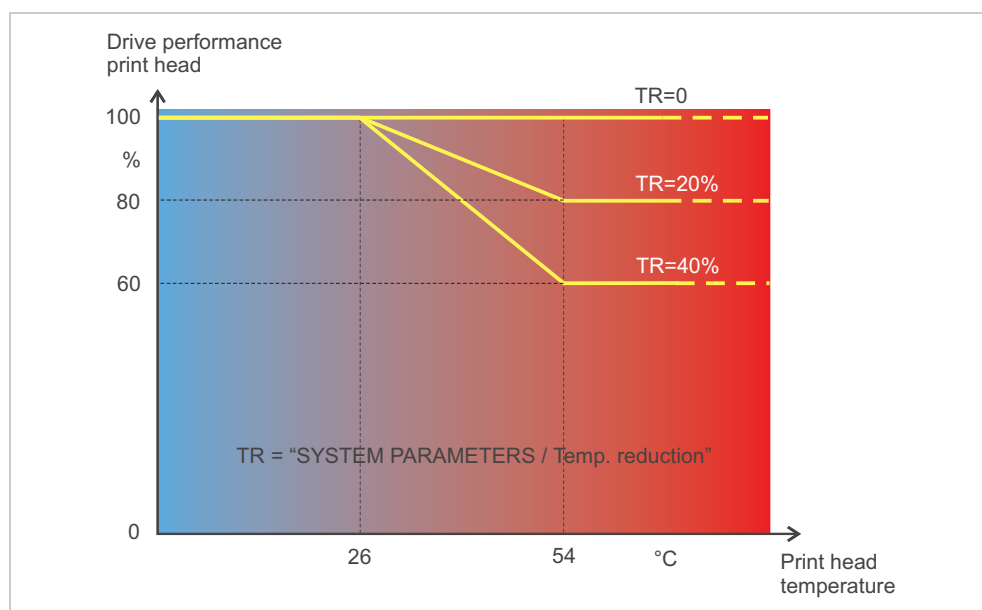
When the printer is being used for a big print job, the temperature of the printhead and the print contrast increase during printing. This increase is greater, the larger the print-job and the larger the amount of black to be printed.

In extreme cases, this rise in temperature can lead to smearing in fine structures when printed, e.g. barcodes arranged crosswise to the printing direction. To avoid this, the firmware constantly checks and corrects the printhead temperature. The precondition for this is that the parameter `SYSTEM PARAMETERS > Temp. reduction` is set to a value > 0 (Default: 20%).

■► The temperature compensation is the greater, the higher the setting of the parameter `SYSTEM PARAMETERS > Temp. reduction` is [1].

Parameter	Function
<code>SYSTEM PARAMETERS > Print contrast</code>	Sets the print contrast, i.e. indirectly, the printhead temperature (actually adjusts the driving power of the printhead).
<code>SYSTEM PARAMETERS > Temp. reduction</code>	Sets the correction factor for the temperature compensation. The higher the selected setting, the greater the reduction of the driving power when the printhead temperature rises.

[Tab. 1] Parameters for setting the temperature compensation.



- [1] With the parameter `SYSTEM PARAMETERS > Temp. reduction` activated, the driving power of the printhead – and therefore indirectly the print contrast – are reduced. Reduction starts at a temperature of 26°C. The maximum value is maintained at 54°C and above.

Readout example

The driving power of the printhead is 100% (setable in online mode after pressing the Prog button).

The printing layout contains a lot of black areas. For this reason, the temperature reduction is activated with 40%.

→ `SYSTEM PARAMETERS > Temp. reduction = 40%`.

Now, if the printhead temperature rises above 26°C, the driving power will be reduced automatically.

Reading out the diagram results in: With a given printhead temperature of approx. 40°C, the driving power is reduced to approx. 80%; with a supposed printhead temperature of 54°C or above, it is reduced to 60%.

Printing with start signal

Application notes

Print-and-Apply systems are normally triggered by an external start signal, which typically comes from a product sensor placed at the conveyor. In most cases, after a start signal arrived, a label is printed, dispensed and applied on the product.

This chapter describes...

- different ways of connecting a start signal source
- required settings in the printer parameter menu

Available interfaces

Depending on the printer type and configuration, different interfaces for start signal input are available (Tab. 2).

Printer	Singlestart ^a	USI ^b	AI ^c	E/A ^d
64-xx Dispenser	S	O	--	--
64-xx	O	O	--	--
AP 5.4 Dispenser	S	--	--	O
AP 4.4	O	--	--	--
AP 5.4	O	--	--	O
AP 5.4 Gen. 2	S	--	--	O
AP 5.6	S	--	--	O
AP 7.t	O	--	--	O
ALX 92x	O	O	O	--

[Tab. 2] Interfaces for start signal input for the different printer types
(S = Standard; O = Optional; -- = No option)

- a) Singlestart connector on the devices rear side
- b) USI board with signal interface
- c) Applicator Interface with signal interface
- d) I/O board with signal interface

Connecting the signal source

Product sensor

The 3 accessory boards USI, AI and I/O provide each a signal interface shaped as a D-Sub connector [2B] [3A]. To those connectors, a start signal source can be connected. As signal source serves usually a product sensor (photoelectric switch).

For detailed information on connecting a signal source see (Tab. 3):

Printer	Board	Article no. product sensor
ALX 92x, DPM, PEM	USI ^a	A2682
ALX 92x	AI	A7112 (Light sensor) N100136 (Connection cable)
AP 5.4, AP 5.4 Gen. 2, AP 5.6	I/O	No pre-assembled product sensor available.

[Tab. 3] Article numbers for product sensors.

a) USI in the 24 V version

► For details about the connector pinout, refer to the Service Manual of the relevant printer, topic section „Electronics“.

Footswitch

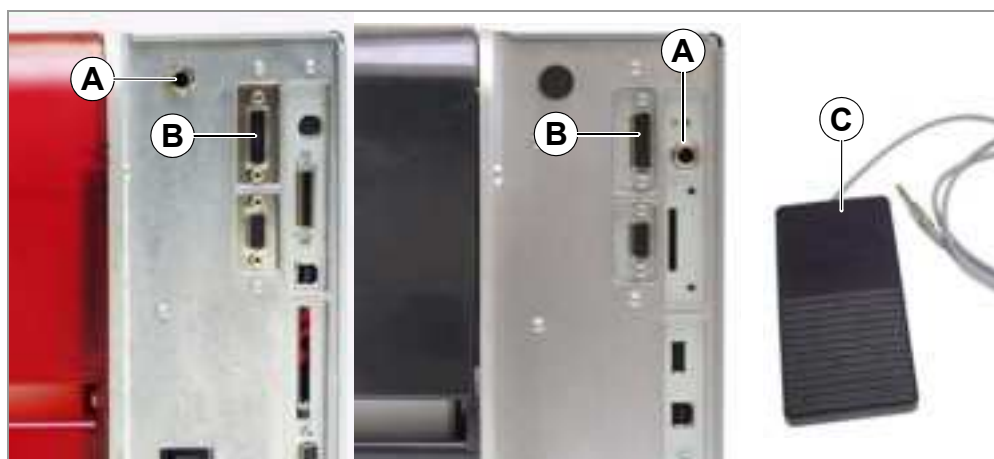
Footswitches are available as accessory for both, 64-xx and AP 5.4/5.6 printers and are shipped ready configured (see topic section [Accessories](#) .

Printer	Article no. foot switch
AP 5.4, AP 5.4 Gen. 2, AP 5.6	A4053
64-xx Dispenser with LTSI	A4053 + A7268 ^a
64-xx Dispenser	97685

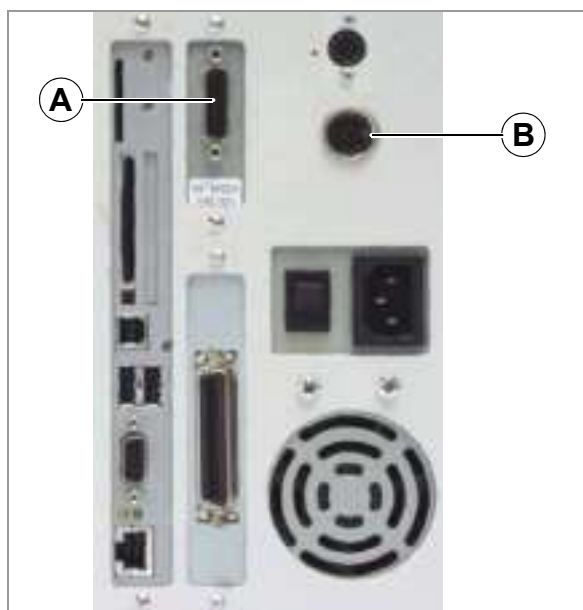
[Tab. 4] Article numbers for foot switches.

a) Adapter cable for connection to a USI.

→ Connect the footswitch to the singlestart connector [2A].



[2] Single-start connector (A) and I/O board signal connector (B) at AP 5.4 (left) and at AP 5.4 Gen. 2 or AP 5.6 (right) respectively. Matching footswitch (C) with 3-point plug.

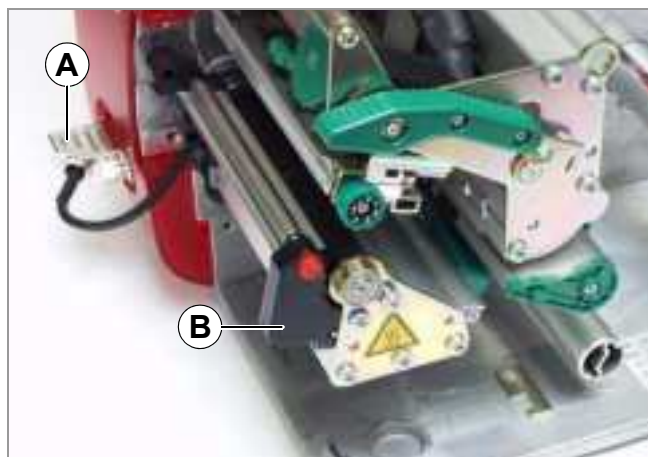


[3] USI signal connector (A) and singlestart connector (B) at a 64-xx.
If the printer is operated with a LTSI applicator, the footswitch has to be connected to the USI!

Light barrier

(64-xx Dispenser type M and AP 5.4/5.6 Dispenser only) This printer type is shipped with a short dispensing edge [4B] with a light barrier, which serves as signal source. After printing and dispensing, the label blocks the light barrier and stops the printer until the label is taken off. As soon as the light barrier is clear again, the next label is printed.

→ Connect the light barrier to the D-Sub connector at the printer front side [4A].



[4] AP 5.4 Dispenser.

Settings in the parameter menu

Setting	Interface	Printer	Parameter	Value
Accept start signals	--	All	SYSTEM PARAMETER > External signal	Singlestart
Signal source	Singlestart input	64-xx	-- ^a	--
		64-xx Dispenser, AP 5.4 Dispenser, AP 5.6 Dispenser	DISPENSER PARA > Start source	Foot switch
		AP 5.4, AP 5.6, AP 7.t	--	--
	Disp. edge light barrier	64-xx Dispenser, AP 5.4 Dispenser, AP 5.6 Dispenser	DISPENSER PARA > Start source	Light barrier
	USI	64-xx Dispenser	DISPENSER PARA > Start source	USI interface
		64-xx, ALX 92x, ALX 73x	--	--
	I/O	AP 5.4, AP 5.6, AP 7.t	--	--
Signal flange	AI	ALX 92x, ALX 73x	--	--
	Singlestart input	64-xx, AP 5.4, AP 7.t, AP 5.4 Gen II, AP 5.6	SYSTEM PARAMETER > Start print mode	„Pulse rising“
	USI	64-xx, ALX 92x	DP INTERFACE > Start print mode	„Pulse rising“
	I/O	AP 5.4, AP 5.6, AP 7.t	I/O BOARD > Start print mode	„Pulse rising“
Start delay	AI	ALX 92x, ALX 73x	APPLICATOR PARA > Start print mode	„Pulse rising“
	Singlestart input	AP 5.4 Gen II Dispenser, AP 5.6 Dispenser	DISPENSER PARA > Start offset	Enter distance between start sensor and dispensing edge
	USI	64-xx, ALX 92x, ALX 73x		
	I/O	AP 5.4 Gen II Dispenser, AP 5.6 Dispenser		
	AI	ALX 92x, ALX 73x		

[Tab. 5] Overview on the most important settings for start signal application (Firmware versions 3.52/6.75/7.60).

a) „--“ = No setting required.

► Further settings for 64-xx Dispenser see user manual 64-xx, topic section „Setup“, chapter [Settings at 64-xx dispensers](#) on page 17.

► Settings for application of ALX 92x with applicator see service manual ALX 92x, topic section „Applicator Interface“, chapter „Selecting an applicator type“.

Standalone Operation

Requirements

Printer Suitable printers: all devices listed in the headline of this document, except for AP 4.4 (which has no card slot)

Firmware

Printer	Feature	Firmware version
64-xx, DPM, PEM, ALX 92x	Gen. 2 ^a	3.0
64-xx, DPM, PEM, ALX 92x	Gen. 3 ^b	5.02
ALX 73x	--	6.36
AP 5.4, AP 7.t	--	1.10
AP 5.4 Gen II, AP 5.6	MLK	3.34

[Tab. 6] Minimum firmware requirement for standalone operation.

a) Characteristic feature: No USB interfaces, but Centronics as standard.

b) Characteristic feature: USB interfaces, Centronics optional.

CPU board

Printer	Feature	CPU board number
64-xx, DPM, PEM, ALX 92x	Gen. 2	A2292/A2293
64-xx, DPM, PEM, ALX 92x	Gen. 3	A6621
PM 3000	--	A6621
AP 5.4, AP 7.t	--	A3927
AP 5.4 Gen II, AP 5.6	MLK	A100150

[Tab. 7] Minimum CPU board requirement for standalone operation.

Options board

Is required for the printer types listed below to be able to connect a keyboard. The order number for the options board can be found in topic section [Accessories](#) .

- 64-xx Gen. 2
- DPM Gen. 2
- PEM Gen. 2
- ALX 92x Gen. 2

Memory card

For order number, see the Plugin Card Manual, topic [Available Cards](#) .

Card reader

PC or laptop with card reader

Keyboard

On request, a keyboard can be connected to the printer. This considerably simplifies entry of variable data, especially when dealing with text.

■ 64-xx, DPM, PEM and ALX 92x of Generation 2 require an additional board for connecting the keyboard, see chapter [Options board](#)  on page 8. The Options board provides a PS/2 connector; an USB-to-PS/2 adapter comes with the offered keyboards.

Keyboard type	Order #
USB-keyboard ^a without numeric keypad, German layout	A8407
USB-keyboard ^a without numeric keypad, US layout	A8406

[Tab. 8] Keyboards available as accessory.

a) Comes with USB-to-PS/2 adapter (required for „AP 5.4 red“ and for „64-xx Gen. 2“)

The matching keyboard layout is set with parameter `SYSTEM PARAMETER > keyboard`.

➡ Before first use, check if the intended keyboard really works with the printer.

Functional Description

Standalone operation means the printer can be operated without it needing to be connected to a host computer. For this purpose, a PC is used to store the print job on a CompactFlash card (memory card). After this card is plugged into the card slot at the printer, the operator can start the print jobs on demand. For this, he uses the printer control panel or a keyboard connected to the printer. Variable data can also be entered via the control panel or the external keyboard.

The standalone mode can always be accessed from the „normal“ printer operation (with online/offline mode and message mode). To do so, press the Online and Esc buttons simultaneously.

It is helpful to imagine two consoles, between which can be switched by pressing Online + Esc.

Console „Normal operation“		Console „Standalone operation“
Online mode	Online + Esc	Selecting print jobs
Offline mode		Inserting field contents
Message mode		Inserting print amounts
Parameter menu		Starting print jobs
	Ctrl + Ins (Keyboard)	Error messages are faded in

[Tab. 9] Functions and display texts in normal and in standalone operation mode.

Features

Standalone operation in brief:

- Printing without computer connection
- Data entry via control panel or keyboard
- Reading print job from the memory card
- Entry or selection of field content
- Updating Firmware from memory card

Selecting files from memory card

Requirements

The card slot which is used for standalone operation must provide the drive letter C. 64-xx, DPM, PEM, ALX 92x ¹:

➔ Set `INTERF.PARAM. > DRIVEASSIGNMENT > Drive C` to „Compact flash“ or „Compact flash 2“ („Compact flash 2“ appears only with the optional 2nd card slot).

AP 5.4 Gen. 2, AP 5.6:

➔ Set `INTERF.PARAM. > DRIVEASSIGNMENT > Drive C` to „SD/MMC card“ (= factory setting).

Other printers: No setting required

¹) With firmware version 5.32 or higher (each Gen. 3)

Selectable are files with the following extensions:

- „*.FOR“ (printjob)
- „*.S3B“ (firmware)

■ The files must be stored on memory card in folder \FORMATS.

■ If no file with one of the above listed endings is found in folder \FORMATS, or if no memory card is inserted, the following message appears:

Standalone
No files!

■ If a huge amount of printjob files is stored in folder \FORMATS, this can lead to the following status message:

Status num: 8857
Wrong mem config

To remedy the cause of this message, take one (or both) of the following measures:

- Reduce the number of files in the \FORMATS folder
- Increase the amount of assigned memory in **SYSTEM PARAMETER > Free store size**

Selecting a file

1. Press the *Online* + *Esc* buttons to get into the standalone mode. The following is displayed:

Choose a file
Novexx.for

„Novexx.for“ stands for any printjob file, which is stored in the \FORMATS folder.

Assumption: More than one file is stored in the \FORMATS folder: In this case the first file in alphabetical order is displayed.

2. Press the *Cut* or *Feed* button to step to the next file.

■ Press the *Esc* button to jump back to the first entry of the list.

3. Press the *Online* button to start proceeding the file

In case of a printjob file, the printjob is started, in case of a firmware file, the firmware upload starts.

If the interpretation of the selected print job takes longer than 300 ms, the following message appears after selecting a printjob:

Novexx.for
Executing .

„Novexx.for“ = printjob file

The point after „Executing“ moves as long as the interpreter works.

Afterwards, input data are requested. If no input fields are provided, only the print amount is queried:

Enter quantity
1

The initial print amount is set in the printjob.

4. Change the print
5. Press the *buttons Online+Esc* to get back to the Online mode.

Key/button functions

Operation	Printer button	Keyboard key
Go to previous file	Feed	Cursor Up
Go to next file	Cut (or Apply)	Cursor Down
Confirm the selection	Online	Enter
More than one file: jump back to the first file in the list	Esc	Esc

[Tab. 10] Keys for file selection

Quick selection

■ If an external keyboard is connected, the file can be selected by typing in the first letter of the file name.

Example:

After changing to the standalone mode, the following is displayed:

```
Choose a file
Novexx.for
```

„Novexx.for“ stands for any printjob file, which is stored in the \FORMATS folder.

1. Press the key for the first letter of the wanted file name , e. g. „D“. Display:

```
D
Default.for
```

D stands for the typed-in character.

„Default.for“ is in alphabetical order the first file with a „D“ as first letter.

2. Press the enter key to select the file, or
Press the esc key to undo the input.

Executing printjobs

All input fields are polled, which are defined as such in the print job (see [Example Application](#) on page 14). Next, the print quantity is requested. As soon as the print quantity is confirmed (online button), the print job is executed. From now on, all information about the job is displayed in the "Print control" console. While the print job is processed, it is started newly in the „Standalone“ console. The input fields are polled again, with the previous entries as default. Alternating with the first input field, the text „Start next job“ is displayed.

- Each printjob file may contain *only one* printjob. If any printjob file contains more than one printjobs, only the first printjob is executed.
- The new start of the print job can be avoided by setting the parameter `SYSTEM PARAMETER > Single job mode` to „deactivated“.
- Press the Esc button to go back to the file selection.

Operation	Printer button	Keyboard key
Increase by 1	Feed	Cursor Up
Decrease by 1 (the predecessor of 0 is 9)	Cut (or Apply)	Cursor Down
Enter	Online	Enter
Delete/Cancel	Esc	Esc

[Tab. 11] Keys for entering variable data

- It's also possible to enter a single „*“ for the print quantity. This makes the print quantity „endless“.

Executing firmware files

Files with the extension `.S3B` are firmware files. Selecting a firmware file means starting a firmware download. As this is a fundamental intervention to the system, firmware files are not executed immediately. The query "Firmware download ? No/Yes" demands explicit confirmation of the operator.

- The same firmware file renamed to the extension `.FOR` is executed without querying.

Operation	Printer button	Keyboard key
Switch between Yes/No	Feed	Cursor Up
Switch between Yes/No	Cut (or Apply)	Cursor Down
Confirm the selection	Online	Enter
More than one file: jump back to the first file in the list	Esc	Esc

[Tab. 12] Keys for loading firmware files

Automatic file execution

If the file `DEFAULT.FOR` (All letters lower case or all upper case; „Default.for“ doesn't work) exists on memory card in the folder `\FORMATS`, this file is executed automatically at system start. Display during power up, until the file is executed:

Standalone
Initializing

► If a file `\AUTOSTRT.FOR` is also existing (in the root directory, not case-sensitive), it will be executed first. But be aware that standalone-printjobs are only executed properly, if the relevant file is stored in `\FORMATS`, as described above.

Additionally usable keys on a keyboard

With an external keyboard connected, the printer can be operated without touching the buttons of the operation panel. The function keys F5-F8 can be used alternatively to the operation panel buttons:

Operation	Keyboard key
Delete the current print job (works in both consoles)	Ctrl+Del
Jump to the start (e.g. start of a file selection list)	Ctrl+Home
Jump to the end (e.g. end of a file selection list)	Ctrl+End
Change between Standalone and standard console	Ctrl+Ins
Delete backwards	Backspace
Same function as <i>cut/apply</i> printer button	F5
Same function as <i>online</i> printer button	F6
Same function as <i>feed</i> printer button	F7
Same function as <i>prog/esc</i> printer button	F8

[Tab. 13] Additional keys for operating the printer with an external keyboard.

Insert Input Field in Printjob

Input fields can be defined in the following Easy Plug field types:

- Text field
- Counting field
- Barcode field

These field types can be defined through the following Easy Plug commands: YT, YN, YB, IDM, PDF, MXC, CBF, YC, YS, YG.

Using a special syntax it is made clear in these commands that the text dealt with here is not a fixed text, but text requested at the time of implementation.

Further information on the input field syntax can be found in the description of the respective command in the Easy Plug Manual, topic section [Description of commands](#) □

Example Application

1. Generate two text files with the content shown in the tables below.

Tip: Cut out the content using the Acrobat Reader text selection tool and copy it to a text file.

Example

#!A1#IMN100/60#ER
#J40#T5#YT107/0///Simple test for
#J30#T5#YN100/0/60///STANDALONE Mode
#Q3/

[Tab. 14] File „TEST1.FOR“

Example

#J10#T5#YT107/0///Fixtext#G
#J40#T5#YN100/0/60///\$<Color:>,Lightred
#J40#T5#YN100/0/60///\$<Color:>,Lightred
#J20#T5#YT107/0///\$<Article number:>,
#!A1#IMN100/60#ER
#Q3/

[Tab. 15] File „NOVEXX.FOR“

2. Create a directory on the memory card called \FORMATS.
3. Store the two text files as TEST1.FOR and NOVEXX.FOR on the memory card in the directory \FORMATS.

Tip: The file ending must be *.FOR!

Tip: There is no difference made between uppercase and lowercase letters!

4. Switch off printer.
5. Insert memory card into the printer's card slot.
6. Turn on printer and switch to online mode.
7. Simultaneously press the Online and ESC keys.

The first file on the memory card is displayed:

Choose a file
NOVEXX.FOR

8. Call up the file TEST1.FOR by pressing the Cut or Feed keys.

Tip: On DPM or ALX 92x, please press the Apply instead of the Cut key!

9. Confirm selection by pressing the Online button.

Now you are asked for the quantity of labels to be printed:

Enter quantity
3

Quantity 3 appears as default, as this was already preset in the printjob. To increase the quantity to 10, for instance, please perform the following procedure:

10. Press the ESC key. This erases the 3.
11. Press the Feed button in order to incrementally increase (up to a max. of 9) the quantity of labels to be printed.

■▶ Quantity 0 = infinite printing!

12. Press the Online button to move forward by one position. Should you wish to enter a number with two or more digits, simply increase the second digit using the Feed button. Should the number only have one digit, press the Online button again.

The printer will now print the stipulated number of labels.

NOVEXX.FOR

In case of the NOVEXX.FOR file, this works somewhat differently. Once the file is called up, the following is displayed:

```

ONLINE      1 JOBS
Color: Lightred
  
```

In the second line the printer will ask for the content for the first data field. "Color" is a prompt and therefore not printed. The preset content of the printjob is called "Lightred".

- *Without keyboard* you can enter the desired text in characters. Entering letters works in the same way as digit entry (see example TEST1.FOR). Using the Cut or Feed buttons, you can scroll through the available set of characters until the required character appears. Use the Online button to move forward by one position. After entering the last character, press the Online button twice.
- *With a keyboard* you can, after the input prompt "Color:", simply enter a different content.

■▶ The entry may only have a length that ensures the printout does not extend over the label edge! - otherwise a printer error message is displayed!

The next input field is displayed and then the next etc., until all input fields have been processed.

At the end you may change the quantity of labels to be printed if required.

Data input by interface

Available with firmware x.33 or a later version.

Apart from putting in data by operation panel or by external keyboard, the data can be sent via interface.

Application example: Reading in data from a RS232 barcode scanner via serial interface.

Selecting the interface → INTERF.PARAM. > OPTIONS > StandAlone Input

■▶ Listed are only interfaces, which are available in the printer and are not already occupied by another function.

Application notes

The following characters or character sequences are replaced by *respectively one* „Enter“ action, if received.

- <CR> ¹
- <CR><LF>
- <LF> ²
- <LF><CR>

■▶ Data received at the interface are processed *only then*, if the printer is switched to standalone operation.

1) <cr> = 0x0D

2) <lf> = 0x0A

Example

Example of a standalone printjob on the memory card:

```
#!A1#DC
#IMSR100.08/100.08
#HV50
#PR8/8/
#RX0
#ERN/1//0
#R0/0
#VTS/Var1//10///Test Var1#G
#VTS/Var2//10///Test Var2#G
#T34.16 #J90.75 #FD/0/L #SS100/BVUN/42X42/0 #VW/L/Var1#G
#T34.08 #J79.58 #FD/0/L #SS100/BVUN/42X42/0 #VW/L/Var2#G
#Q1#G
#!P1
```

The following data is received via the data interface:

```
Content1<cr><lf>
Content2<cr><lf>
3<cr><lf>
```

The first two lines assign the content „Content1“ to the variable „Var1“ and the content „Content2“ to the variable „Var2“. The third line assigns the print quantity „3“.

Data Transmission with Ethernet

System Requirements



CAUTION! - Unqualified manipulations of a data network can disturb or stop its proper functioning.

Connecting a device to a network requires network administrator knowledge.

→ Consult your network administrator for assistance, if you don't have knowledge on this level!

Hardware

- Printer

Printer	Feature	Ethernet connection by
AP 4.4	—	Ethernet connection <i>not possible!</i>
AP 5.4	—	Integrated Ethernet interface
AP 5.6	—	
AP 7.t	—	
64-xx		
DPM	Gen. 2	CPU board A2292 with integrated Ethernet interface (optional)
PEM		
ALX 92x		
64-xx		
DPM	Gen. 3	Integrated Ethernet interface
PEM		
ALX 92x		
ALX 73x		

[Tab. 16] Equipment of the different printer types with Ethernet interfaces.

- Ethernet cable: must have quality „Cat. 5E“ and be shielded.

Software

- Firmware:

Printer	Feature	Firmware version
64-xx, DPM, PEM, ALX 92x	Gen. 2	3.0
64-xx, DPM, PEM, ALX 92x	Gen. 3	5.02
ALX 73x	--	6.36 ^a
AP 5.4, AP 5.6, AP 7.t	--	alle Versionen

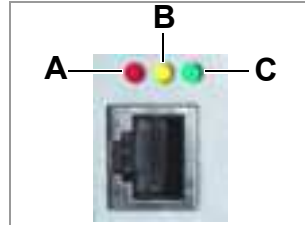
[Tab. 17] Minimum firmware requirement if it is to apply the Ethernet function.

a) Printer firmware

- Network protocol: TCP/IP

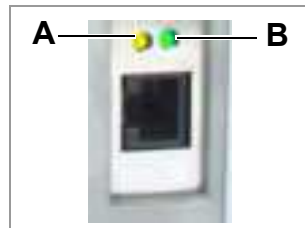
Integration of Ethernet Interface

The Ethernet interface of the printers is layed out as 10/100 Base T. The transmission speed is set by autonegotiation. LEDs are located above the RJ 45 plug, showing the network situation [5][6][7].



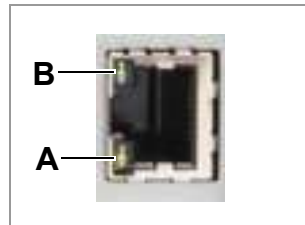
[5] Position of the signal LEDs at 64-xx, DPM, PEM, ALX 92x (each Gen. 2).

- A LED red lights = Printer is connected to network
- B LED yellow flashes = Network traffic
- C LED green lights = High transmission rate (100 Mbit/s)



[6] Position of the signal LEDs at AP 5.4, AP 7.t, ALX 73x and 64-xx, DPM, PEM, ALX 92x (each Gen. 3)

- A LED yellow lights = Printer is connected to network; LED flashes = Network traffic
- B LED green lights = High transmission rate (100 Mbit/s)



[7] Position of the signal LEDs at AP 5.4 Gen. II and AP 5.6.

- A LED yellow lights = Printer is connected to network; LED flashes = Network traffic
- B LED green lights = High transmission rate (100 Mbit/s)

MAC Address

An internationally unique MAC (Media Access Control) address is required for Ethernet operation. It consists of 6 bytes and is usually separated by colons or hyphens (hexadecimal, e.g. 00:0a:44:02:00:49 or 00-0a-44-02-00-49). The first 3 bytes are constant 00:0A:44 (Novexx code), the last 3 bytes vary for each device. The product manufacturer is responsible for the allocation of the MAC addresses.

IP Address

In the printer software a TCP/IP protocol stack is implemented, i.e. for network purposes the device requires an IP address along with the MAC address. IP-addresses are always displayed as 4 bytes separated by dots (e.g. 192.168.1.99). IP addresses are assigned by the network operator, as a rule the network administrator.

➡ MAC and IP addresses originate from different protocol layers and are generally independent of each other.

Further information about TCP/IP can be found in the abundance of literature on the subject.

Setting the IP Parameters

The IP-parameter settings can either be set fix, or they can be requested from a DHCP server with every start of the printer. To assist the system administrator, the DHCP server is provided a device name on request, which consists of a combination of printer type + 3 digits from the MAC address. (e.g. AP_5.4___300dpi_020049). The following values have been preset:

- IP address: 192.168.1.99
- Net mask: 255.255.255.0
- Default gateway: 0.0.0.0

■ ■ ■ ■ ➔ Connection to a name server is not required.

Menu	Parameter	Description
INTERF. PARAM. > NETWORK PARAM	IP addressassign	Here, please set “fixed IP address” or “DHCP”.
	IP address	IP parameter input fields, in case “fixed IP address” was set for the address assign type.
	Net mask	
	Gateway address	

[Tab. 18] Setting the IP parameters in the printer menu

■ ■ ■ ■ ➔ **WARNING:** The address allocation for each device must be clear and unambiguous. Ask your network administrator for assistance!

Transmission with Raw Socket Interface

Printing data can be transmitted using a parameterisable socket interface (TCP server socket on port number > 1024).

This protocol is supported by

- all Unix derivatives; a connection similar to that of terminal servers can be established.
- Windows 2000, Windows XP

A software package from external providers is required for Windows 95, Windows 98 and Windows NT (e.g. Serial/IP by Tactical Software, <http://www.tacticalsoftware.com>).

In this way you can set the Port address in the printer's parameter menu:

Parameter	Description
INTERF. PARAM. > NETWORK PARAM. > Port address	Here you can select the port number of the service in section 1024-65535
INTERF. PARAM. > EASYPLUGINTERPR > Interface	Here a TCP/IP socket must be set in order to receive printing data at the set port number.

[Tab. 19] Setting the port address in the printer's parameter menu

Transmission with LPD Server

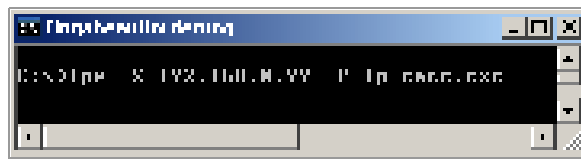
Printing data can be transmitted to the printer using the LPR/LPD (Line Printer Daemon) protocol ("BSD Spooler").

This protocol is supported by

- all Unix derivatives
- Windows NT, Windows 2000 und Windows XP
- ➡ The print queue of the host must be named „lp“!

Example

1. Set parameter `INTERF.PARAM. > EASYPLUGINTERPR > Interface` to „LPD server“.
2. Send the printjob file (here: „test.txt“) as illustrated using the „lpr“ command [8].



[8] Sending a printjob with the „lpr“ command.

- ➡ Enter „lpr ?“ to get a list of the admissible command options.
- ➡ For the use of LPD server under Windows NT or Windows 2000, please refer to the following link:
<http://support.microsoft.com/default.aspx?scid=kb;EN-US;179156>
- ➡ For the use of LPD server under Windows 95 and Windows 98, a software package from external providers is required (e.g. Windows LPR Spooler, see the following link).
<http://home.arcor.de/Heil-Consulting/>

Troubleshooting

The following should be checked if a problem occurs:

- Ethernet connection: The yellow LED belonging to the printer network socket must be illuminated. If this is not the case, possible sources of error are:
 - that the network is not connected to the outlet.
 - ISDN outlet: Erroneous, the network cable was connected to an ISDN instead of a network outlet. Both outlet types do not differ mechanically.
 - an incorrect cable (ISDN cable?) is used to connect the printer to the network outlet.
 - a defective hub/switch.
 - a defective printer board.
- IP parameter: The defined parameters or parameters set via DHCP are displayed in the "Printer Status" printout. A "ping" to the set IP address must return an echo. This also works if a different interface is set in the Easy Plug Interpreter parameter. Possible source of error: Incorrect configuration of a network participant.
- On the printer, either "TCP/IP socket" or "LPD server" must be set in the Easy Plug Interpreter parameter.

Access via Web/FTP server

Web server

Applications

The web server makes it possible

- to set or read the values of parameters from the parameter menu via a web browser
- to control the operator panel of the labeller resp. the printer via a web browser.

■ The web server is *not* multi-session compatible, i.e. only one user can be logged in at any time.

■ The web server is a setup utility, not an operational one. The web server should not be heavily used during a high performance application of the dispenser, otherwise this could result in losses in machine performance.

Prerequisites

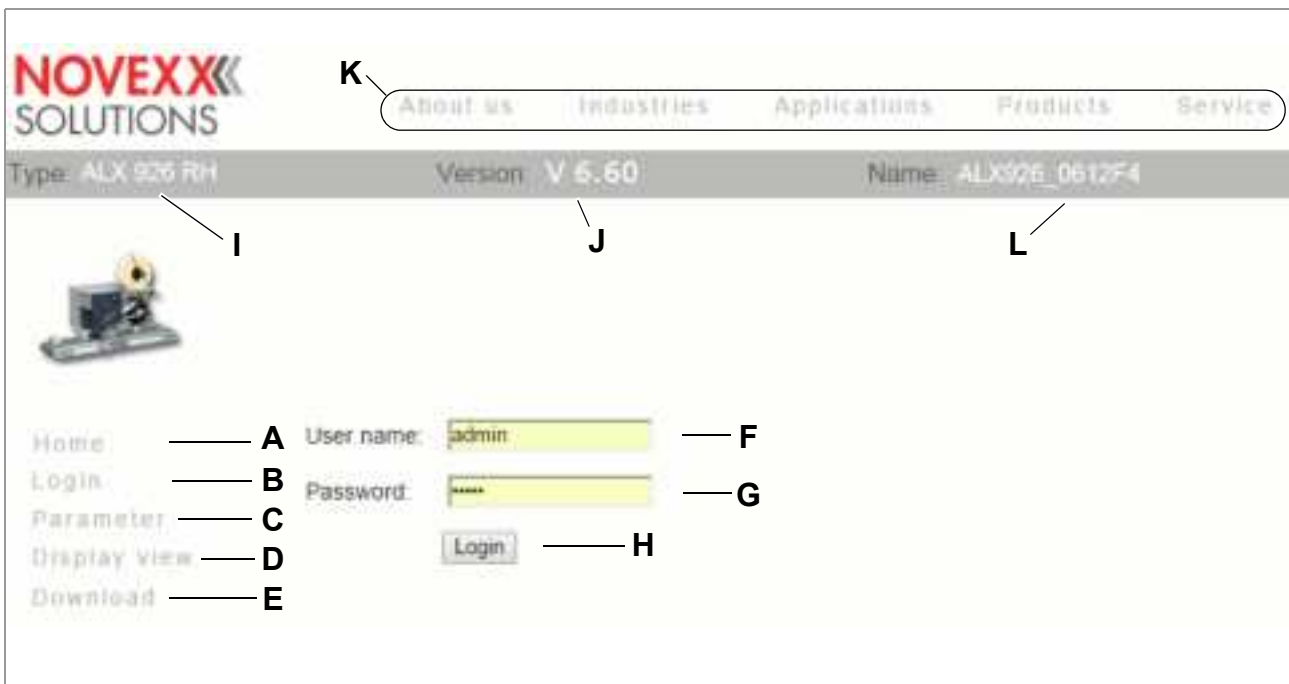
- Suitable printers: All printers listed in the headline, apart from the AP 4.4
- Required firmware:

Printer	Feature	Min. firmware vers.
64-xx, DPM, PEM, ALX 92x	Gen. 2	3.40
64-xx, DPM, PEM, ALX 92x	Gen. 3	5.02
AP 5.4, AP 7.t	--	3.0
AP 5.4 Gen II, AP 5.6	MLK	3.34

- The printer is connected to a network
- A valid IP address is assigned to the printer (by the network administrator or by a DHCP server)
- INTERFACE PARA > NETWORK PARAM. > WEB server must be set to "On".

Starting the web server

1. Note down the IP address of the printer.
■ This is shown under INTERFACE PARA > NETWORK PARAM. > IP address
2. Start the internet browser.
3. Enter the following in the address bar:
http://[IP address without initial zeroes]
Example: IP address = 144.093.029.031
Enter: http://144.93.29.31



[9] Login dialogue of the web server

- A** Link to the web server home
- B** Opens input fields for user name and password [9]
- C** Calls the parameter menu
Enables settings in the labeller parameter menu to be changed.
- D** Calls the operator panel display
Gives access to all the parameters of the real operator panel
- E** Starts the FTP server in a new browser window
See chapter [FTP server](#) on page 26.
- F** Input field for user name
Preset: "admin"
- G** Input field for password
Preset: "admin"
The password can be changed under [INTERFACE PARA >NETWORK PARAM. > WEB server](#)
- H** Click on this button after entering user name and password
- I** Displays the machine model
- J** Displays the firmware version
- K** Links to the Avery Dennison Machinery website
- L** DHCP host name (see [INTERFACE PARA >NETWORK PARAM. > DHCP host name](#))

Logging in to the web server

1. Click on the "Login" link [9B]
2. Enter user name and password [9F, G]
Preset in both cases: admin
3. Click on the "Login" button [9H]

Changing a setting in the parameter menu

Click on the names of submenus and parameters to open them so that you can change the settings they contain.

Example

Making a change to PRINT PARAMETERS > Material length:

1. Click on “Parameter” link [9C].
2. Click on “PRINT PARAMETERS” link.
3. Click on “Material length” link.
4. A dialog box opens: [10].
5. Enter the required value in the entry field.
6. Click on the “Save” button.

The value is now transferred to the labeller.



Change parameter value

Materiallength
(min: 5.0 mm max: 7900.0
mm step: 0.1 mm)

100.0

Save Cancel

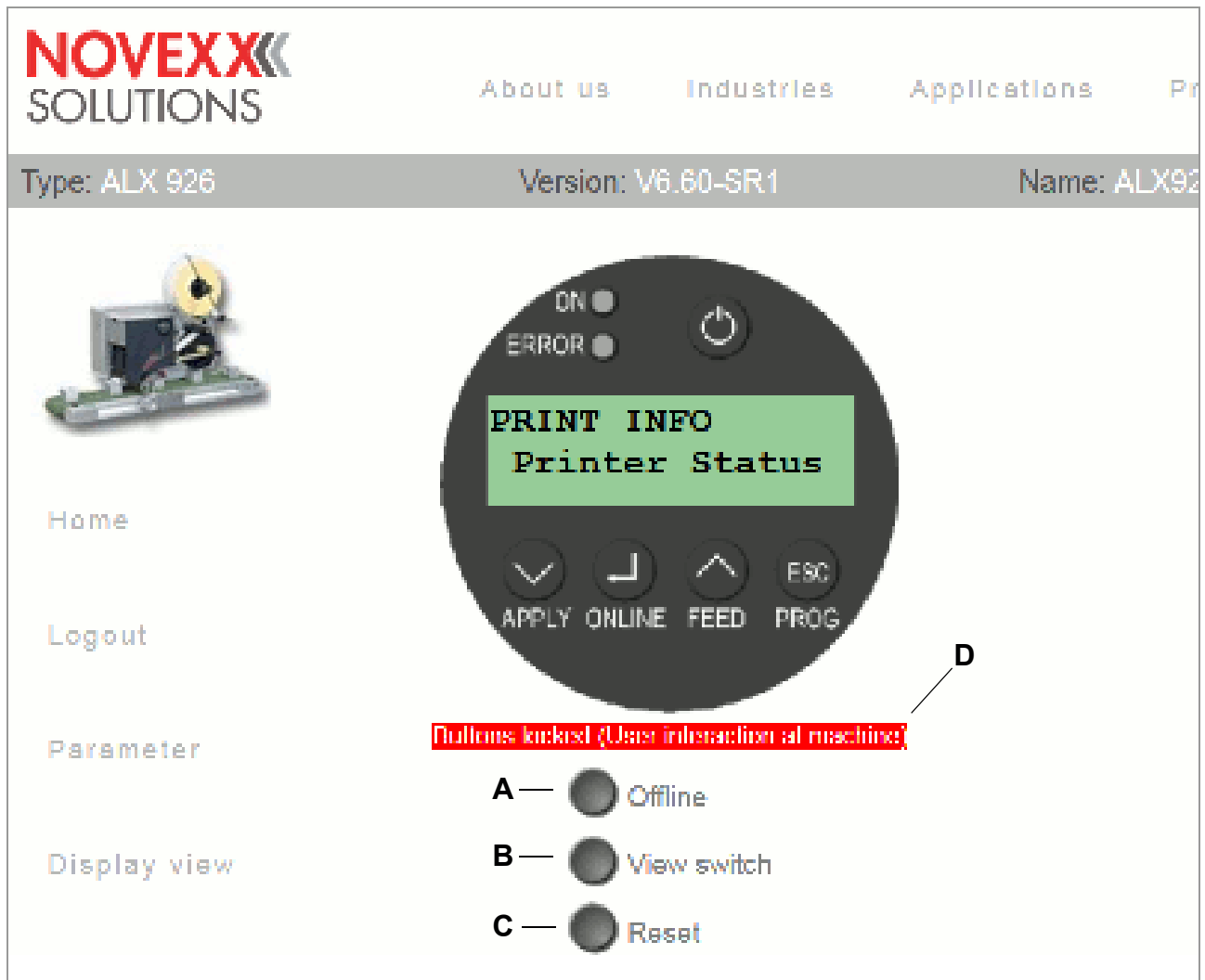
[10] Example: Dialog box for entering value for the parameter PRINT PARAMETERS > Material length



Some parameters trigger a reset of the labeller, if they have been changed on the labeller via the operator panel. However, if any of these parameters is changed via the web server, the reset does not occur automatically. The changes only come into effect after the next time the labeller is reset. In these cases, the “Reset” button [11A] appears after the setting has been changed.

[11] Information (A): Changes made to the parameter setting do not come into effect until after a reset.

The virtual operator panel



[12] The virtual operator panel

After the “Display view” link is clicked, an image of the operator panel (= virtual operator panel) appears on the screen [12]. All of the buttons on the real operator panel can also be operated by mouse-click on the virtual operator panel.

The buttons [12A-C] underneath the virtual operator panel are equivalent to key combinations on the real operator panel

A “Offline” button

Sets the machine offline during dispensing mode

Equals pressing the ONLINE button

B “View switch” button

Switches into standalone mode

Equivalent to pressing the buttons ONLINE + ESC

C “Reset” button

Triggers a reset

Equivalent to pressing the buttons APPLY + ONLINE + FEED

D Status line [13E]

In order to avoid putting an operating person at the machine at risk by sudden starting up of the machine, the virtual operator panel is locked as soon as a button at the machine operator panel is pressed. The status line indicates the current status:

Message	Meaning
No	A user is logged in at the virtual operator panel. The virtual operator panel is unlocked.
„Buttons locked (not logged in)“	No user is logged in at the virtual operator panel. The virtual operator panel is locked.
„Buttons locked (User interaction at machine)“	A user is logged in at the virtual operator panel. The virtual operator panel is blocked, because an operator at the machine operator panel has pressed a button Reactivate the virtual operator panel: → Switch from „Offline“ to „Online“ at the machine operator panel.

FTP server**Applications**

The file transfer protocol (FTP) server (RFC959) enables access to the internal RAM disk and to the memory card in the card slot of the LMA/PMA (as long as there is a memory card in the slot).

In this way, files (configuration or firmware files) can be saved to the memory card or the internal RAM disk, or existing files renamed or deleted.

■ The FTP server is multi-session compatible.

■ The FTP server should not be heavily used during a high performance application of the labeller.

Prerequisites

- The printer is connected to a network
- A valid IP address is assigned to the printer (by the network administrator or by a DHCP server)
- INTERFACE PARA > NETWORK PARAM. > FTP server is set to "On".
- A FTP client ¹ is installed on the host computer.
- The FTP connection is *not* blocked by a firewall

Establishing a FTP connection

1. Note down the IP address of the printer.
■ The IP address is shown under INTERFACE PARA > NETWORK PARAM. > IP address
2. Start the FTP client.
3. Enter the following in the address bar:
ftp://[IP address without initial zeroes]
Example: IP address = 144.093.029.047
Enter: ftp://144.93.29.47
An input field for the user name and password appears.

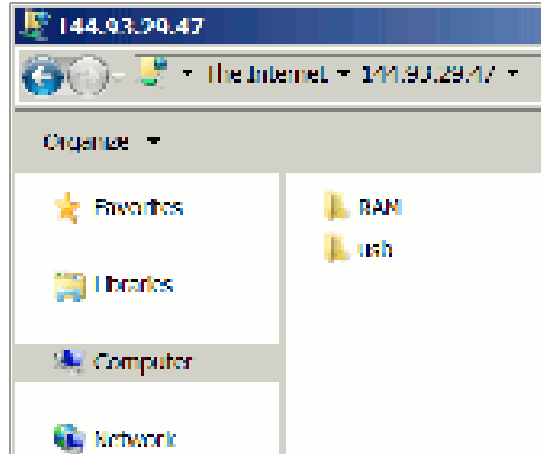
1) e. g. WS-FTP, Internet Explorer, Midnight Commander, Firefox

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

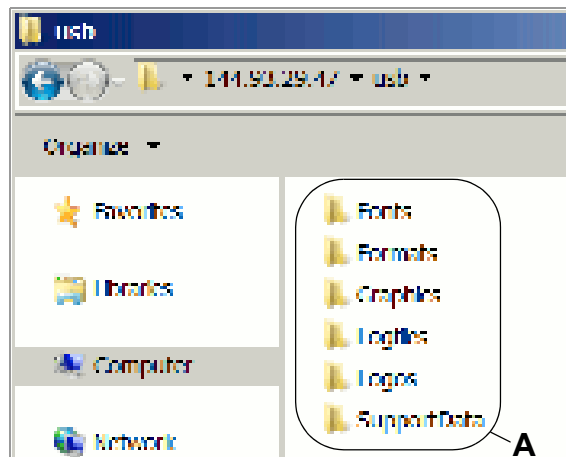
4. Enter user name and password.

A user name can be chosen at will; preset password = "avery"

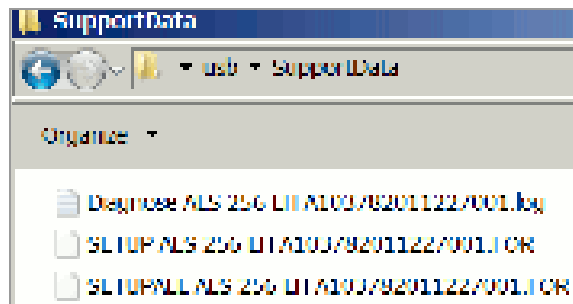
Change the password under INTERFACE PARA > NETWORK PARAM. > FTP Password



[13] User interface of the FTP server in the Windows Explorer.
RAM = internal machine memory; usb = connected USB stick.



[14] Folders on the USB stick (A).



[15] Files in folder „SupportData“.

If the login was successful, separate folders appear in the FTP client, one for the internal RAM disk and one for each connected memory medium [13]:

- RAM:

The content of the RAM disk is without matter for the user.

- USB:

If one of the functions for storing setup or diagnosis data on a memory medium was already processed, the following subfolders can be found here ¹:

Subfolder	Comment
Formats	• Location for setup files (see MASCHINEN SETUP > Param. speichern) • Location for firmware files to be uploaded in standalone mode
Logfiles	Location for diagnosis files (see SERVICE/DIAGNOS. > Diagnose speich.)
SupportData	Location for setup and diagnosis files (see SERVICE/DIAGNOS. > Gen.SupportDaten) [15]
Fonts	
Graphics	Without function
Logos	

1) Depending on the applied memory medium appears SD, CF or USB.

Data transmission with WLAN

According to standard IEEE 802.11b

Requirements

Suitable printers

Printer	Firmware
AP 5.4, AP 7.t	3.00
64-xx, DPM, PEM, ALX 92x (each Gen. 3)	5.31
ALX 73x	6.36

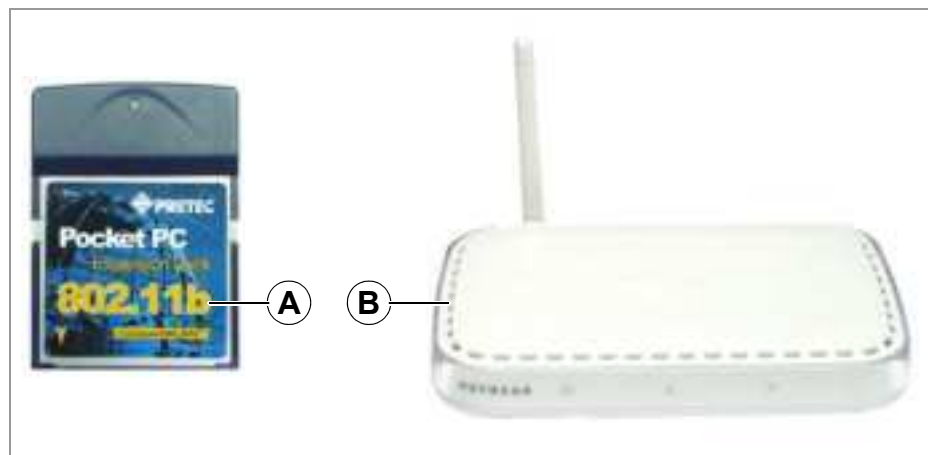
[Tab. 20] Minimum firmware versions for use of WLAN.

Revision number CPU board

- AP 5.4, AP 7.t: at least 3 (A3927-03)
 - 64-xx, DPM, PEM, ALX 92x, ALX 73x: at least 4 (A6621-04)
- Displaying the revision number: **SERVICE DATA > CPU BOARD DATA > CPU identifier**

WLAN CF cards

- D-Link „DCF-660W“ (article number A7456)
- Linksys „WCF12“ (no longer available)
- Pretec „OC-WLBXX-A“ (no longer available) [16A]



[16] WLAN CF card (A) ; Wireless Access Point (B)

Further requirements

- Access point according to standard IEEE 802.11b station mode „infrastructure“ (e. g. „Netgear Wireless Access Point WG602“ [16B])
- Ethernet crossed link cable (1:1 cable), to connect the access point to the host computer
- PC with operating system Windows XP

Notes

WLAN = Wireless Local Area Network

This section describes a simple setup, with which data transmission from a host computer (e. g. PC) via an access point to a label printer can be tested. This setup doesn't suit for real network operation.

Printer setup



CAUTION! - Network manipulations can disturb or avoid proper network operation.

→ Before connecting any device to a network, always ensure the approval of the network administrator.

1. Insert the WLAN CF card into the printers card slot. Switch the printer on.
In the printer menu **INTERF. PARAM. > NETWORK PARAM.**, additional parameters for WLAN operation show up.

The LED at the card is flashing as long as the card is not logged in at the access point.

2. Make the following settings in the **INTERF. PARAM. > NETWORK PARAM.** menu:

Parameter	Setting	Note
IP addressassign	Fixed IP address	
IP address	e. g. 192.168.000.999	ask the network administrator for it; the initial three bytes must equal the PC address
Net mask	255.255.255.000	= default setting
WLAN SSID	idt	use lower case letters
WLAN WEP	disabled	
WLAN default key	0	or any other setting
FTP server		arbitrary setting
WEB Server		arbitrary setting

[Tab. 21] Required parameter settings in the printer menu.

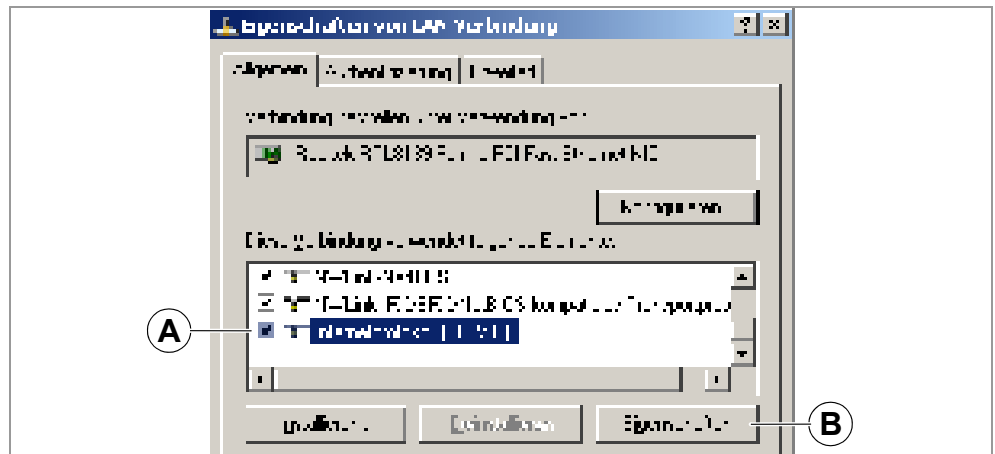
3. Set parameter **INTERF. PARAM. > EASYPLUGINTERPR > Interface** to „LPD Server“.
4. Restart printer to activate the settings.

Connecting

1. Connect the access point to the PC using a crossed link cable. Connect the access point to the mains supply and switch it on.
2. Check, if the LED at the WLAN CF card lights up permanent. If it does not, check the following points:
 - Is the card plugged firmly into the card slot?
 - Does the card match one of the supported card types?
 - Is the parameter **INTERF. PARAM. > NETWORK PARAM. > WLAN SSID** set to „idt“ (small letters!)?

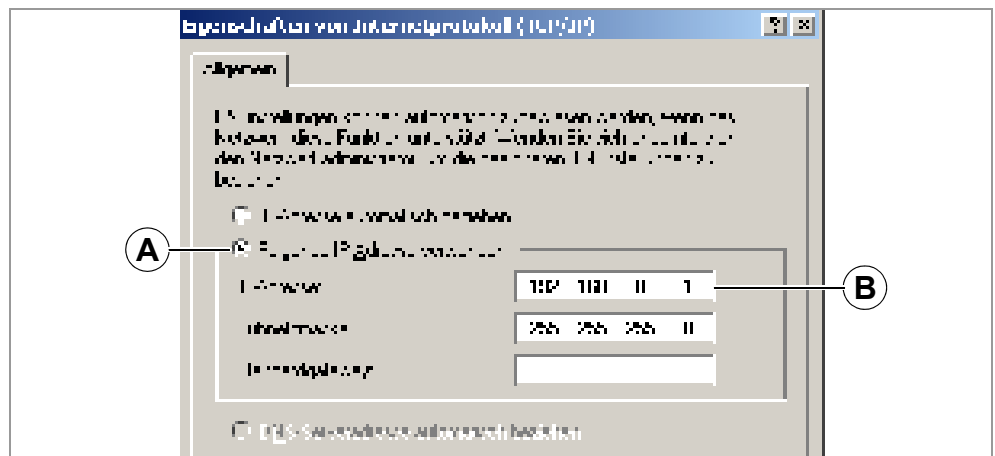
PC setup

1. In Windows XP call: *Start > Settings > System > Network*.
2. Click on *Configuration*, click the right mouse button and select *Properties*.
Window [17] shows up.



[17] „Properties of LAN connection“ window.

3. Select the item „Internet protocol (TCP/IP)“ [17A] and click on the „Properties“ button [17B].
Window [18] appears.

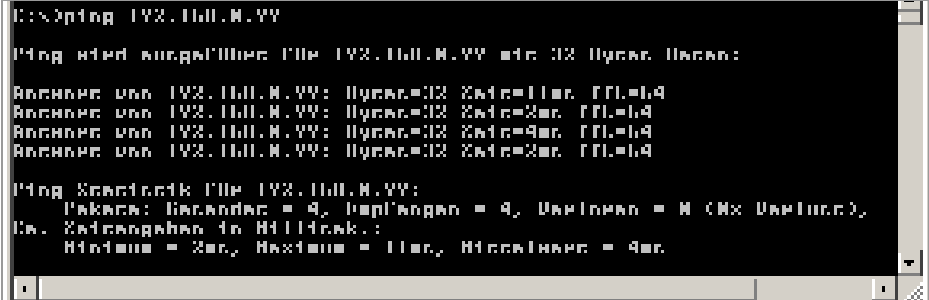


[18] „Properties of internet protocol (TCP/IP)“ window.

4. Activate the input field for fixed IP addresses [18A].
5. Ask the network administrator for suitable IP addresses. Type the IP address into field [18B] (e. g. 192.168.0.1).
6. Restart the PC to activate the settings.

Testing the connection

1. Call the input window: *Start > Programs > Accessories > Input prompt*.
2. Enter the command „ping“ with the printers IP address, e.g. „ping 192.168.0.99“.
3. If the connection works properly, four answer lines appear in the input prompt window [19].



```

C:\>ping 192.168.0.99

Ping wird ausgeführt für 192.168.0.99 mit 32 Bytes Daten:

Antwort von 192.168.0.99: Bytes=32 Zeit=11ms TTL=64
Antwort von 192.168.0.99: Bytes=32 Zeit=2ms TTL=64
Antwort von 192.168.0.99: Bytes=32 Zeit=9ms TTL=64
Antwort von 192.168.0.99: Bytes=32 Zeit=2ms TTL=64

Ping Statistik für 192.168.0.99:
    Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0 (0% Verlust),
    CW. Zeitangaben in Millisek.:
        Minimum = 2ms, Maximum = 11ms, Durchschnitt = 9ms
  
```

[19] Input prompt window after proceeding ping with the printers IP address.

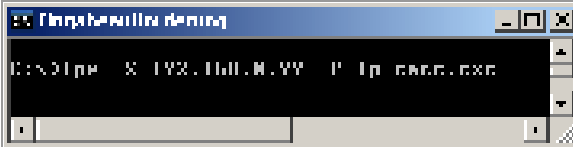
➡ As an additional test, „ping“ can also be called with the IP address of the access point. The default IP address of the Netgear WG602 is 192.168.0.227

If the printer doesn't send back an answer, the connection doesn't work properly. Measures in this case are:

- ➔ Check all the above mentioned settings.
- ➔ Contact the network administrator for advice.

Sending a printjob

1. Have an Easy-Plug printjob ready (in this example: „test.txt“).
2. Send the printjob using the command „lpr“ [20].



```

C:\>lpr -s 192.168.0.99 P:\test.txt
  
```

[20] Sending a printjob using the lpr command

After some seconds, the printer should start printing.

➡ During data transmission, the LED at the WLAN CF card flashes.

Storing and transferring parameter settings

Recommendations

- Suitable printers: All printers listed in the headline, apart from the AP 4.4 (which has no card slot)
- Firmware:

Printer	Feature	Firmware version
64-xx, DPM, PEM, ALX 92x	Gen. 2	3.40
64-xx, DPM, PEM, ALX 92x	Gen. 3	5.02
ALX 73x	--	6.36
AP 5.4, AP 7.t	--	3.00
AP 5.4 Gen II, AP 5.6	MLK	7.34

[Tab. 22] Minimum firmware requirement if it is to store or transfer parameter settings.

Application cases

Sometimes, it will be necessary to reinstall all parameter settings of a printer at a time or to transfer the settings to another printer. In those cases, the operator can save time, money and nerves by loading all the parameter settings completely. The following cases are possible:

- After a printer is being serviced, it is supposed to get the same settings as before.
- The parameter settings of one printer are supposed to be transferred to another printer of the same type.
- Several printers of the same type should be provided with the same settings.

It is advisable to read out and to store the parameter settings completely, to be able to restore them later. To do so, there are two ways:

Easy-Plug

Reading out via the interface by means of appropriate Easy-Plug commands. This requires sound knowledge of the command language Easy-Plug and is not further discussed here.

Further information: refer to the Easy-Plug manual, topic section [Description of commands](#) □, commands #!PG and #PC.

Memory card

Storing the parameter settings on a memory card in a text file („setup file“) (see description below).

Storing settings on memory card

1. Call parameter **SPECIAL FUNCTION > Store parameters**¹.
 ■■■► This parameter is only visible, if a memory card is plugged into the printer card slot.
2. Select a storing option: „With adjust para“ or „Without adj. par“.
 – „With adjust para“
 (Default setting) Parameters, which carry device specific settings, are also saved. Examples for this type of settings are the printhead resistance and the sensor settings.
 The relevant parameter names are marked with a „*“ in the setup file. This option is recommended, if the settings are supposed to be reinstalled on the same printer.
 – „Without adj. par“
 Parameters, which carry device specific settings, are not saved.
 This option is recommended, if settings are supposed to be transferred to another printer of the same type.
3. After having chosen the storing option, the default file name is displayed (storing location: directory \FORMATS on memory card):
 – SETUPALL.FOR for storing option „With adjust para“
 – SETUP.FOR for storing option „Without adj. par“
 ■■■► File names and directory can be modified with the printer operation buttons or with a connected keyboard.
 ■■■► If a file with the given name already exists, it will be overwritten without further inquiry.

Command ID	Parameter name	Setting
#G Printer System Menu		
#PC2001/24.50	#G Head disp dist.	: 24.5 mm
#PC2002/0	#G Speed unit	: Inch/s
#PC2003/36.40	#G Foil end warning	: 36.4 mm
#PC2004/0	#G Display mode	: Job rest quant.
#PC2005/0	#G *Dispense counter	: 0
#PC2006/0	#G w/wo magazine	: with
#PC2007/0	#G Autom. dot check	: Off
#PC2008/10	#G Earliest dottest	: after 10 label
#PC2009/0	#G Latest dotcheck	: after 0 label
#PC2010/0	#G Dottestarea from	: 0 mm
#PC2011/104	#G Dottestarea to	: 104 mm
#PC2012/0	#G Print emulation	: Easyplug
#PC2013/9	#G Character Sets	: IBM

[Tab. 23] Detail of a setup file.

Some complete listings of a setup files can be found in the [Appendix](#) on page 39 .

1) Older printers: call SPECIAL FUNCTION > Parameter to CF

Loading settings from memory card

All files with parameter settings, which are stored in the \FORMATS directory, can be read out using the standalone mode.

■ The file extension must be „.FOR“, see [Selecting files from memory card](#) on page 9.



CAUTION!

There is a danger that the printer doesn't start, after a setup file has been read that doesn't match the printer type (especially if a setup file for a 64-xx dispenser was loaded into a standard 64-xx).

- Mind an appropriate setup file.
- Never load the setup file of another machine type.

SETUPALL 64-06 A662106142213663.FOR

[21] Important: The setup file must match the printer type!

Wrong Setup file
Execute? No

Warning, if a wrong setup file was selected. The answer in most cases should be „No“.



There may be reasons for loading a setup file not matching the printer. But, select only then „Yes“, if you really know what you are doing.

If the case, that the printer doesn't start, occurred anyway, the printer must be startet *without motion control*, see service manual, topic section „Service mechanics“, chapter „General notes“ > „Special key combinations“.

Automatic setup loading

→ Save the setup file as \AUTOSTRT.FOR (in the root directory on memory card).

Loading the settings:

1. Switch the printer off.
2. Insert the memory card.
3. Switch the printer on. The setup loading starts automatically. Display text when the settings are loaded:

Switch off.
Remove card

Verifying Bar Codes with OLV

System Requirements

Printer

- Suitable printers: 64-xx / DPM / PEM / ALX 92x.
- Printer firmware: at least version 3.30
 - ▮ With firmware v. 3.30, the OLV can only be connected to Com2, that is, the option board A2294 must be installed in the printer.

OLV

- SV100 with power supply, interface cable and mounting plate.

Part	Order # (RJS)
Scanner/OLV	002-7973
Installation kit with PC software and power supply	002-8107
Mounting plate with scanner bracket	002-4608

[Tab. 24] Ordering numbers of the manufacturer for the SV 100.

- Firmware version: X302
- Manufacturer: RJS www.RJS1.com 
- Serial data cable (1:1) to connect printer and OLV.
- For use outside of the USA, a country specific power cable is required.

Cable	Order # (Novexx)
Serial cable	A1207
Power cable euro norm	90600
Power cable UK	A0635
Power cable switzerland	A0842
Power cable denmark	A3598

[Tab. 25] Accessories for the SV 100 available at Novexx Solutions

Functional Description

An OLV is a bar code scanner, which is able to rate the scanned bar code in quality (according to ANSI grades). The OLV is placed in front of the printer, so that it can read the bar codes directly after printing [22].

- ▮ Only the OLV „SV100“ by RJS can be used.
- ▮ Only bar codes can be verified, which are printed with a rotation of 0° or 180°.

Setup

1. Place the printer on the OLV mounting plate as illustrated.
 - ▮▮▮▮ Operating the OLV at a DPM / PEM / ALX 92x requires a support stand matching the respective installation situation
 2. Connect the OLV to the serial interface of the printer.
 - ▮▮▮▮ After the printer has been switched on, initialization commands are sent to the OLV. Therefore, the OLV has first to be switched on. These initialization commands switch on the laser beam (among other things).
 - ▮▮▮▮ The sending of the initialization commands can be repeated at any time by pressing the Feed and Esc buttons (at the printer) simultaneously. This may be necessary, if the OLV was switched off.
 3. Switch on the OLV.
 4. Switch on the printer.
 5. Set the printer parameter `INTERF. PARAM. > OPTIONS > OLV option` to „Serial Com1“ or „Serial Com2“, depending on the port on which the OLV is connected.
 - ▮▮▮▮ (Firmware 3.30: Set the printer parameter `INTERF. PARAM. > COM2 PORT > Function Option` to „Barcode OLV“.)

The data transfer parameters of the interface are automatically set to the default values required by the SV100 (115 200 baud, 8 data bits, no parity, 2 stop bits, hardware handshake).
 6. Position the OLV so, that the distance between laser beam (on the label) and print-head is as short as possible.
 - ▮▮▮▮ For detailed information on setting the OLV please refer to the SV100 manual.
 7. Set the parameters in the `OLV PARAMETERS` menu (at the printer).
- Information about the parameters can be found in topic section [Info-Printouts and Parameters](#) .



[22] 64-05 with OLV mounted (front view).



[23] 64-05 with OLV mounted (side view).

Appendix

Setup file for AP 5.4 (Gen. 1)

```

#!A1
#G Machine Setup for AP 5.4   300 Dpi   Version: V3.10
#G Serial number             : A424904304797
#G MAC Address                : 000a.44.02.13.8c
#G Creation date              : 05.05.2006 16:01

```

```

#G-----
#G Printer Parameter Menu
#G-----
#PC1001/1          #G Infeed no.           : Nr. 1
#PC1002/8          #G Inf. change spd.      : 8 Inch/s
#PC1003/4.0        #G Print speed         : 4 Inch/s
#PC1004/4.0        #G Feed speed          : 4 Inch/s
#PC1005/1          #G Materialtype          : Punched
#PC1006/200.0      #G Materiallength        : 200.0 mm
#PC1007/48.0       #G Materialwidth         : 48.0 mm
#PC1027/0          #G Print direction       : Foot first
#PC1008/0.0        #G Punch offset          : 0.0 mm
#PC1009/1          #G Bar code multip.      : * 1
#PC1010/0          #G UPC plain-copy        : In line
#PC1011/0          #G EAN Readline          : Standard
#PC1012/0          #G EAN sep. lines        : With readl. only
#PC1013/0          #G Rotated barcodes       : Normal
#PC1014/0          #G Cut mode              : Real 1:1 mode
#PC1015/3          #G Cut speed             : 3 Inch/s
#PC1016/105        #G Cut width             : 105 mm
#PC1017/0.0        #G Cut position          : 0.0 mm
#PC1018/0.0        #G Double cut            : 0.0 mm
#PC1019/1          #G Rewind direction      : Printing outside
#PC1020/0.0        #G *X - Printadjust      : 0.0 mm
#PC1021/0.0        #G *Y - Printadjust      : 0.0 mm
#PC1022/0          #G Punchmode             : Automatic
#PC1023/128        #G Punchlevel            : 128
#PC1024/30         #G Matend                : 30
#G-----
#G Easyplug Interpreter
#G-----
#PC1101/2          #G Interface             : TCP/IP SOCKET
#PC1102/0          #G Spooler mode          : Mult. print jobs
#PC1103/1          #G *Printer ID no.       : 1
#PC1104/64         #G Spooler size          : 64 KBytes
#G-----
#G COM1 Port Parameter
#G-----
#PC1201/5          #G Baud rate             : 9600 Baud
#PC1202/8          #G No. of data bits      : 8
#PC1203/2          #G Parity                 : None
#PC1204/1          #G Stop bits              : 1 Bit
#PC1205/0          #G Data synch.           : RTS/CTS
#PC1206/0          #G Serial port mode      : RS232
#PC1207/1          #G Frame error            : Display

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#G COM2 Port Parameter
#G-----
#PC1302/5          #G Baud rate       : 9600 Baud
#PC1303/8          #G No. of data bits : 8
#PC1304/2          #G Parity          : None
#PC1305/1          #G Stop bits       : 1 Bit
#PC1306/0          #G Data synch.      : RTS/CTS
#PC1307/0          #G Serial port mode : RS232
#PC1308/1          #G Frame error      : Display
#G-----
#G COM3 Port Parameter
#G-----
#PC1351/2          #G Baud rate       : 9600 Baud
#PC1354/1          #G Parity          : None
#PC1356/0          #G Data synch.      : RTS/CTS
#PC1358/1          #G Frame error      : Display
#G-----
#G COM4 Port Parameter
#G-----
#PC1361/2          #G Baud rate       : 9600 Baud
#PC1364/1          #G Parity          : None
#PC1366/0          #G Data synch.      : RTS/CTS
#PC1368/1          #G Frame error      : Display
#G-----
#G Centronics Port Parameter
#G-----
#PC1401/1          #G PnP function     : On
#G-----
#G Ethernet Parameter
#G-----
#PC1501/0          #G IP Addressassign : DHCP
#PC1502/-1872945967 #G *IP address      : 144.093.028.209
#PC1503/-65536     #G *Net mask         : 255.255.000.000
#PC1504/0          #G *Gateway address  : 000.000.000.000
#PC1505/9100       #G Port address      : 9100
#PC1506/0          #G Ethernet speed    : Auto negotiation
#PC1521/1          #G SNMP Agent        : Enabled
#PC1522/public#G    #G SNMP password     : public
#PC1507/1          #G FTP server        : Enabled
#PC1508/novexx#G    #G FTP Password      : novexx
#PC1509/1          #G WEB server        : Enabled
#PC1510/5          #G WEB display refr  : 5 s
#PC1511/admin#G    #G WEB admin passw.  : admin
#PC1512/supervisor#G #G WEB supervisor p.: supervisor
#PC1513/AP5.4_300dpi_02138C#G#G DHCP host name : AP5.4_300dpi_02138C
#PC1514/idt#G      #G WLAN SSID         : idt
#PC1515/0          #G WLAN WEP          : Disabled
#PC1516/1          #G WLAN default key  : 1
#PC1517/123456789aBCd123456789AbcD#G#G WLAN key 1 : 123456789aB-
Cd123456789AbcD
#PC1518/123456789aBCd123456789AbcD#G#G WLAN key 2 : 123456789aB-
Cd123456789AbcD
#PC1519/123456789aBCd123456789AbcD#G#G WLAN key 3 : 123456789aB-
Cd123456789AbcD
#PC1520/123456789aBCd123456789AbcD#G#G WLAN key 4 : 123456789aB-
Cd123456789AbcD

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#G Options Parameter
#G-----
#PC5300/0          #G Remote Display   : Disabled
#G-----
#G Printer System Menu
#G-----
#PC2001/24.5       #G Head disp dist.  : 24.5 mm
#PC2002/0          #G Speed unit       : Inch/s
#PC2003/36.4       #G Foil end warning : 36.4 mm
#PC2060/0          #G Foil warn stop   : Disabled
#PC2004/0          #G Display mode     : Job rest quant.
#PC2005/372        #G *Dispense counter : 372
#PC2006/0          #G w/wo magazine    : with
#PC2012/0          #G Print emulation  : Easyplug
#PC2013/3          #G Character sets    : Germany
#PC2014/0          #G Character filter  : Chars >= 20Hex
#PC2015/0          #G Light sens. type : Punched
#PC2016/0          #G Head-sensor dist : 0 mm
#PC2017/50         #G Sens. punch-LS   : 50 %
#PC2018/0          #G Foil mode        : Thermo transfer
#PC2019/9.9        #G Ribb. eco. limit : 9.9 mm
#PC2058/0          #G Feed mode        : Head up
#PC2020/1          #G Turn-on mode     : Online
#PC2021/0          #G Interface delay  : 0 ms
#PC2022/1          #G Error reprint    : Enabled
#PC2023/0          #G Single-job mode   : Disabled
#PC2025/1106       #G *Head resistance : 1106 Ohm / 12 Dot
#PC2026/20         #G Temp. reduction  : 20 %
#PC2066/1          #G Thin line emphas : On
#PC2027/0          #G Voltage offset   : 0 %
#PC2028/1          #G Logo expansion   : Yes
#PC2029/0          #G Miss. label tol. : 0
#PC2031/1          #G Periph. device   : Cutter
#PC2032/2          #G Infeed module    : 2 infeeds
#PC2033/1          #G Singlestartquant : 1
#PC2035/0          #G Application mode  : Save mode
#PC2036/0          #G Appl. waitpos.   : 0 mm
#PC2037/10         #G Applicator speed  : 10 Inch/s
#PC2038/0          #G Start mode       : Edge
#PC2039/0          #G Start source     : Light barrier
#PC2057/0          #G Calibration mode : Automatic
#PC2042/0          #G External signal  : Disabled
#PC2043/0          #G Signal edge      : Falling edge
#PC2044/1          #G Apply key        : Enabled
#PC2045/99         #G Print contrast   : 99 %
#PC2046/512        #G Ram disk size    : 512 KBytes
#PC2047/256        #G Font downl. area : 256 KBytes
#PC2048/1024       #G Free store size  : 1024 KBytes
#PC2049/2          #G Print info mode  : Compact right
#PC2050/0          #G Reprint function : Disabled
#PC2051/1          #G Language         : English
#PC2063/1          #G Keyboard         : English
#PC2053/0          #G Access authoriz. : Deactivated
#PC2059/80         #G Max InitFeedback : 80 mm
#PC1026/0          #G Material feed    : for- / backwards

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#G Peripheral Parameter Menu
#G-----
#PC2512/1          #G Rewinder Motor   : Generation 2
#PC2501/0          #G Current mode    : Table values
#PC2502/100       #G Min rew. current : 100
#PC2503/250       #G Max rew. current : 250
#PC2504/170       #G Min rew. current : 170 %
#PC2505/170       #G Max rew. current : 170 %
#PC2506/0         #G Start rew. curr.  : 0 %
#PC2507/30        #G Start cur. len.   : 30 mm
#PC2508/95        #G Pullback current : 95
#PC2509/50        #G Back diameter    : 50 mm
#PC2510/0         #G Break current     : 0
#PC2511/120       #G Break diameter    : 120 mm
#G-----
#G Dispenser Interface
#G-----
#PC3001/0          #G Interface type    : USI interface
#PC3002/0.0        #G Start delay       : 0.0 mm
#PC3003/0          #G Start print mode  : Pulse falling
#PC3004/0          #G End print mode    : Mode 0
#PC3005/0          #G Reprint signal    : Disabled
#PC3006/1          #G Ribbon signal     : Enabled
#PC3007/0          #G Material signal   : Disabled
#PC3013/60.0       #G Diam. mat. end    : 60.0 mm
#PC3008/0          #G Feed input        : Standard
#PC3012/0          #G Pause input       : Standard
#PC3009/0          #G Start error stop  : Off
#PC3010/1          #G Internal inputs   : Enabled
#PC3011/0          #G Apply mode        : After start sig.
#G-----
#G Textile Parameter Menu
#G-----
#PC3301/1          #G Changelabel Mode  : Always at jobend
#PC3302/1          #G Changelab Print   : With print
#PC3303/10         #G Changelab Length  : + 10 mm
#PC3304/1          #G Label Eject Mode  : Yes, at job end
#PC3305/0          #G Head lift autom.  : after 0 labels
#G-----
#G Applicator Parameter Menu
#G-----
#PC3101/0          #G Applicator type   : LTP - LTPV
#PC3102/0          #G Apply mode        : After start sig.
#PC3110/2          #G Start print mode  : Pulse rising
#PC3103/0          #G Start error stop  : Off
#PC3104/0          #G APSF sensor res.  : 0 pulses/m
#PC3105/0.0        #G Start delay       : 0.0 mm
#PC3106/1          #G Dwell time        : 1 ms
#PC3107/1          #G Blow on time      : 1 ms
#PC3108/0          #G Restart delay     : 0 ms
#PC3109/2000       #G Position timeout  : 2000 ms
#PC3212/0          #G Start error stop  : Off
#G-----
#G I/O Board Parameter Menu
#G-----
#PC3201/0.0        #G Start delay       : 0.0 mm
#PC3202/0          #G APSF sensor res.  : 0 pulses/m
#PC3203/0          #G Start print mode  : Pulse falling
#PC3204/0          #G Reprint signal    : Disabled
#PC3205/0          #G Feed input        : Disabled
#PC3206/0          #G Pause input       : Disabled
#PC3207/0          #G Error output      : Printer error
#PC3208/0          #G Error polarity    : Level low active
#PC3209/1          #G Status output     : Low ribbon warn.
#PC3210/0          #G Status polarity   : Level low active
#PC3211/0          #G End print mode    : Mode0 inactive
#G-----

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

#G MLI Parameter Menu

```
#G-----
#PC4002/15          #G Darkness           : 15
#PC4003/126         #G Control Prefix      : 7EH
#PC4004/94          #G Format Prefix       : 5EH
#PC4005/44          #G Delimiter Char      : 2CH
#PC4006/0           #G Label Top           : 0 Dots
#PC4007/0           #G Left Position        : 0 Dots
#PC4009/0           #G Resolution           : 300 DPI
#PC4010/0           #G Error Indication     : OFF
#PC4011/0           #G Error Checking       : YES
#PC4012/0           #G 305 DPI Scaling      : YES
#PC4013/0           #G Image Save Path      : Internal RAM
#PC4014/1           #G Command ^PR          : Enable
#PC4015/1           #G Command ^MT          : Enable
#PC4017/0           #G Label Invert         : Disable
#PC4016/1           #G Command ^JM          : Enable
#G-----
```

#G Printer Special Menue

```
#G-----
#PC5001/1           #G *Printer type        : AP 5
#PC5002/1           #G *Printhead type      : KPA 300 DPI
#PC5004/0           #G Command sequence     : ,#G`
#PC5005/0           #G EasyPl. file log     : Disabled
#G-----
```

#G Printer Service Menu

```
#G-----
#PC5111/0           #G Spec parameter 1 : 0
#PC5112/0           #G Spec parameter 2 : 0
#PC5113/0           #G EasyPlug Monitor   : Disabled
#PC5125/0           #G EP Monitor Mode    : Interpreter data
#PC5116/127         #G *Punch adjust      : 127
#PC5117/128         #G *Reflex adjust      : 128
#PC5119/234         #G *Foil adjust        : 234
#PC5120/170         #G *Head sens adjust   : 170
#PC5121/0           #G *Optn.1             : 0
#PC5122/0           #G *Optn.2 adjust      : 0
#PC5101/35          #G Matend tolerance   : 35 mm
#PC5102/0.0         #G Feed adjust         : 0.0 %
#PC5103/0.0         #G Foil feed adjust    : 0.0 %
#PC5104/0.0         #G *Punch y calibr.    : 0.0 mm
#PC5123/31775       #G *Rewinder adjust    : 31775
#PC5127/1           #G Debug interface     : Serial Com1
#PC5124/0           #G Debug mask          : 0
#PC5128/-1872945986 #G Debug IP address    : 144.093.028.190
#G-----
```

#G Module Firmware Versions

```
#G-----
#G readonly ID=30004 #G System version      : V3.10
#G readonly ID=30052 #G Peripheraldriver     : V 3 - T 3
#G readonly ID=30057 #G Intern. rewinder     : V 4 - T 36
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#G Operational Data
#G-----
#G readonly ID=30014 #G Serv. operations : 0
#G readonly ID=30015 #G Head number : 0
#G readonly ID=30016 #G Roll number : 0
#G readonly ID=30017 #G Cutter number : 0
#G readonly ID=30018 #G Head run length : 441 m
#G readonly ID=30019 #G Roll run length : 401 m
#G readonly ID=30020 #G Cuts on knife : 881
#G readonly ID=30021 #G Tot. mat. length : 401 m
#G readonly ID=30022 #G Tot. foil length : 358 m
#G readonly ID=30023 #G Total cuts : 881
#G readonly ID=30025 #G Head strobes : 3978688
#G readonly ID=30026 #G Foil diameter : 67.8 mm
#G readonly ID=30028 #G Operation time : 209 hours 46 min
#G-----
#G Power supply data
#G-----
#G readonly ID=30029 #G Type : Blue Mountain
#G-----
#G CPU board data
#G-----
#G readonly ID=30034 #G CPU identifier : 25-0
#G readonly ID=30036 #G PCB Revision : REV03
#G readonly ID=30037 #G FPGA version : 5817
#G readonly ID=30039 #G MAC Address : 000a.44.02.13.8c
#G readonly ID=30040 #G Serial number : A424904304797
#G readonly ID=30041 #G Production date : 03.08.2004
#G readonly ID=30042 #G PCB part number : A3407-03
#G readonly ID=30043 #G Board part numb. : A4249-01
#G readonly ID=30044 #G Manufacturer : Multitech Sys
#G readonly ID=30045 #G Work place : FCT Test Station
#G readonly ID=30046 #G Company name : Novexx Solutions
#G-----
#G CF card slot status
#G-----
#G readonly ID=30047 #G Card in slot : Yes
#G readonly ID=30048 #G Card typ : 3.3 Volt
#G-----
#G Internal Memory Configuration
#G-----
#G readonly ID=30010 #G Space for Jobs : 7.8 MB
#G readonly ID=30007 #G Ram memory size : 16 MB
#G readonly ID=30008 #G Flash mem size : 4 MB FUJ
#G readonly ID=30009 #G Compact flash : 32 MB
#G readonly ID=30010 #G Space for Jobs : 7.8 MB
#G readonly ID=30011 #G Max. Labellength : 1984 mm
#G readonly ID=30013 #G Default values : User defined
#G-----
#G Printer Debug Menu
#G-----
#PC5403/0 #G Pctrl communica. : Disabled
#PC5402/0 #G Variables : Disabled
#PC5400/0 #G Label generation : Disabled
#PC5401/0 #G Print handling : Disabled
#G-----
#G Execute system restart ( 217 parameters )
#G-----
#PC999999/-1#G

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

Setup file for AP 5.4 (Gen. 2)

```

#!A1
#G Machine Setup for AP 5.4   300 Dpi   Version: V7.T10568M
#G Serial number       : A100149091300006
#G MAC Address         : 000A.44.07.00.05
#G Creation date       : 24.02.2017 11:10

#G-----
#G Printer Parameter Menu
#G-----
#PC1001/1              #G Infeed no.       : Nr. 1
#PC1002/8              #G Inf. change spd. : 8 Inch/s
#PC1003/4.0            #G Print speed      : 4 Inch/s
#PC1004/4.0            #G Feed speed       : 4 Inch/s
#PC1005/0              #G Material type    : Endless
#PC1006/27.0           #G Material length  : 27.0 mm
#PC1007/105.0          #G Material width   : 105.0 mm
#PC1027/0              #G Print direction  : Foot first
#PC1008/0.0            #G Punch offset     : 0.0 mm
#PC1009/1              #G Bar code multip. : * 1
#PC1029/0              #G Tradit. Imaging  : No
#PC1010/0              #G UPC plain-copy   : In line
#PC1011/0              #G EAN Readline     : Standard
#PC1012/0              #G EAN sep. lines   : With readl. only
#PC1013/1              #G Rotated barcodes : Optimized
#PC1014/0              #G Dispense Mode    : Real 1:1 mode
#PC1015/3              #G Cut speed        : 3
#PC1016/105            #G Cut width        : 105
#PC1017/0.0            #G Dispenseposition : 0.0 mm
#PC1018/0.0            #G Double cut       : 0.0 mm
#PC1019/1              #G Rewind direction : Printing outside
*PC1020/0.0            #G *X - Printadjust : 0.0 mm
*PC1021/0.0            #G *Y - Printadjust : 0.0 mm
#PC1022/0              #G Punch mode       : Automatic
#PC1023/128            #G Punch level      : 128
#PC1024/30             #G Matend           : 30
#G-----
#G Easyplug Interpreter
#G-----
#PC1101/7              #G Print interface  : Automatic
#PC1102/0              #G Spooler mode     : Mult. print jobs
*PC1103/1              #G *Printer ID no.  : 1
#PC1104/64             #G Spooler size     : 64 KBytes
#PC2072/0              #G Offline mode     : Interf. disabled
#PC2021/0              #G Interface delay  : 0 ms
#G-----
#G COM1 Port Parameter
#G-----
#PC1201/8              #G Baud rate        : 115200 Baud
#PC1202/8              #G No. of data bits : 8
#PC1203/2              #G Parity           : None
#PC1204/1              #G Stop bits        : 1 Bit
#PC1205/0              #G Data synch.      : RTS/CTS
#PC1206/0              #G Serial port mode : RS232
#PC1207/1              #G Frame error      : Display
#G-----
#G COM2 Port Parameter
#G-----
#PC1302/8              #G Baud rate        : 115200 Baud
#PC1303/8              #G No. of data bits : 8
#PC1304/2              #G Parity           : None
#PC1305/1              #G Stop bits        : 1 Bit
#PC1306/0              #G Data synch.      : RTS/CTS
#PC1307/0              #G Serial port mode : RS232
#PC1308/1              #G Frame error      : Display
#G-----
#G COM3 Port Parameter

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#PC1351/2          #G Baud rate      : 9600 Baud
#PC1353/8          #G No. of data bits : 8
#PC1354/1          #G Parity        : None
#PC1355/2          #G Stop bits     : Automatic
#PC1356/0          #G Data synch.   : RTS/CTS
#PC1357/0          #G Serial port mode : RS232
#PC1358/1          #G Frame error    : Display
#G-----
#G COM4 Port Parameter
#G-----
#PC1361/2          #G Baud rate      : 9600 Baud
#PC1363/8          #G No. of data bits : 8
#PC1364/1          #G Parity        : None
#PC1365/2          #G Stop bits     : 2 Bit
#PC1366/0          #G Data synch.   : RTS/CTS
#PC1368/1          #G Frame error    : Display
#G-----
#G COM5 Port Parameter
#G-----
#PC1371/2          #G Baud rate      : 9600 Baud
#PC1373/8          #G No. of data bits : 8
#PC1374/1          #G Parity        : None
#PC1375/2          #G Stop bits     : 2 Bit
#PC1376/0          #G Data synch.   : RTS/CTS
#PC1378/1          #G Frame error    : Display
#G-----
#G USB Port Parameter
#G-----
#PC1451/0          #G USB select     : External Device
#G-----
#G Ethernet Parameter
#G-----
#PC1501/0          #G IP Addressassign : DHCP
*PC1502/010.220.000.225 #G *IP address    : 010.220.000.225
*PC1503/255.255.254.000 #G *Net mask      : 255.255.254.000
*PC1504/010.220.000.001 #G *Gateway address : 010.220.000.001
#PC1505/9100       #G Port address    : 9100
#PC1506/0          #G Ethernet speed  : Auto negotiation
#PC1513/AP5.4_300dpi_070005#G DHCP host name  : AP5.4_300dpi_070005
#PC1521/0          #G SNMP Agent      : Off
#PC1522/public#G   #G SNMP password   : public
#PC1507/1          #G FTP server      : On
#PC1508/novexx#G   #G FTP Password    : novexx
#PC1509/1          #G WEB server      : On
#PC1510/5          #G WEB display refr : 5 s
#PC1511/admin#G    #G WEB admin passw. : admin
#PC1512/supervisor#G #G WEB supervisor p.: supervisor
#PC1532/operator#G  #G WEB operator p.  : operator
#PC1529/0          #G Time client     : Off
#PC1530/-2105212662 #G Time server IP  : 130.133.001.010
#PC1531/3600       #G Sync. interval  : 3600 s
#PC1533/0.0        #G Time zone       : +0:00
#G-----
#G Options Parameter
#G-----
#PC5207/0          #G RFID Option     : Off
#PC1550/0          #G StandAlone Input : None
#PC5310/0          #G ##VW/I Interface : Easyplug
#G-----
#G Drive Assignment
#G-----
#PC1600/3          #G Drive C         : SD card
#PC1601/4          #G Drive D         : USB thumb drive
#G-----
#G Printer System Menu
#G-----
#PC2001/24.5       #G Head disp dist. : 24.5 mm

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC2002/0      #G Speed unit      : Inch/s
#PC2069/1      #G Cover open error : Immediately
#PC2003/36.4   #G Foil end warning : 36.4 mm
#PC2060/0      #G Foil warn stop  : Off
#PC2004/0      #G Display mode   : Job rest quant.
*PC2005/86     #G *Dispense counter : 86
#PC2006/0      #G w/wo magazine  : with
#PC2012/0      #G Print Interpret. : Easyplug
#PC2013/9      #G Character sets   : IBM
#PC2014/0      #G Character filter : Chars >= 20Hex
#PC2015/0      #G Label sens. type : Punched
#PC2016/0      #G Head-sensor dist : 0 mm
#PC2017/50     #G Sens. punch-LS   : 50 %
#PC2018/0      #G Foil mode      : Thermo transfer
#PC2019/10.0   #G Ribb. eco. limit  : 10.0 mm
#PC2077/0.0    #G Head down lead   : 0.0 mm
#PC2058/0      #G Feed mode       : Head up
#PC2020/1      #G Turn-on mode    : Online
#PC2022/1      #G Error reprint  : On
#PC2071/0      #G EasyPlug errors  : Tolerant handl.
#PC2023/0      #G Single-job mode  : Off
*PC2025/1146   #G *Head resistance  : 1146 Ohm / 12 Dot
#PC2026/20     #G Temp. reduction  : 20 %
#PC2066/0      #G Thin line emphas  : Off
#PC2027/0      #G Voltage offset   : 0 %
#PC2028/1      #G Logo expansion  : Yes
#PC2029/2      #G Miss. label tol.  : 2
#PC2067/1      #G Gap detect. mode  : Autom. forward
#PC2068/5      #G Foil stretching  : Feedback: 5 mm
#PC3306/0      #G Head lift autom.  : Off
#PC2031/3      #G Periph. device   : Tear-off edge
#PC2032/2      #G Infeed module   : 2 infeeds
#PC2033/1      #G Singlestartquant : 1
#PC2035/0      #G Application mode  : Safe mode
#PC2036/0      #G Appl. waitpos.   : 0 mm
#PC2037/10     #G Applicator speed  : 10 Inch/s
#PC2039/0      #G Start source     : Light barrier
#PC2057/0      #G Calibration mode  : Automatic
#PC2042/0      #G External signal   : Off
#PC2043/0      #G Start print mode  : Pulse falling
#PC2044/1      #G Apply key        : On
#PC2045/80     #G Print contrast   : 80 %
#PC2046/512    #G Ram disk size    : 512 KBytes
#PC2047/256    #G Font downl. area : 256 KBytes
#PC2048/4096   #G Free store size  : 4096 KBytes
#PC2049/0      #G Print info mode  : Par.values right
#PC2050/0      #G Reprint function : Off
#PC2051/1      #G Language         : English
#PC2063/1      #G Keyboard         : English
#PC2053/0      #G Access authoriz. : Off
#PC1026/0      #G Material feed    : for- / backwards

#G-----
#G Peripheral Parameter Menu
#G-----
#PC2059/80     #G Max InitFeedback : 80 mm
#PC1031/100    #G Forw feed rat.   : 100 %
#PC1032/100    #G Backw feed rat.  : 100 %
#PC6004/15.0   #G Start offset     : 15.0 mm
#PC6014/0      #G Start error stop : Off
#PC6017/0.0    #G Product length   : 0.0 mm
#PC6005/0      #G Speed Adaption   : Off
#PC6006/1      #G Encoder Type     : 2 Phases normal
#PC6008/500    #G Encoder Resol.   : 500 pulses/turn
#PC6009/64.0   #G Encoder Diameter : 64.0mm 0.0var
#PC6035/0      #G Multi label mode : Off
#PC6036/25.0   #G Label 2 offset   : 25.0 mm
#PC6037/25.0   #G Label 3 offset   : 25.0 mm
#PC2501/0      #G Current mode     : Table values

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC2502/100      #G Min rew. current : 100
#PC2503/250      #G Max rew. current : 250
#PC2504/110      #G Min rew. current : 110 %
#PC2505/110      #G Max rew. current : 110 %
#PC2506/0        #G Start rew. curr. : 0 %
#PC2507/30       #G Start cur. len. : 30 mm
#PC2508/94       #G Pullback current : 94
#PC2509/50       #G Back diameter : 50 mm
#PC2510/0        #G Break current : 0
#PC2511/120      #G Break diameter : 120 mm
#G-----
#G Dispenser Interface
#G-----
#PC3001/0        #G Interface type : USI interface
#PC3003/0        #G Start print mode : Pulse falling
#PC3004/0        #G End print mode : Mode 0
#PC3005/0        #G Reprint signal : Off
#PC3006/1        #G Ribbon signal : On
#PC3007/0        #G Material signal : Off
#PC3013/60.0     #G Diam. mat. end : 60.0 mm
#PC3008/0        #G Feed input : Standard
#PC3012/0        #G Pause input : Standard
#PC3009/0        #G Start error stop : Off
#PC3010/1        #G Internal inputs : On
#PC3011/0        #G Apply mode : After start sig.
#PC3014/0        #G USI profile : Default
#PC3015/1        #G Warning signal : Level high activ
#G-----
#G Textile Parameter Menu
#G-----
#PC3301/0        #G Changelabel Mode : Easyplug select
#PC3302/1        #G Changelab Print : With print
#PC3303/10       #G Changelab Length : + 10 mm
#PC3304/0        #G Label Eject Mode : No
#PC3305/0        #G Head lift autom. : after 0 labels
#G-----
#G Applicator Parameter Menu (AI Board)
#G-----
#PC3101/6        #G Applicator type : Direct Dispense
#PC3102/0        #G Apply mode : After start sig.
#PC3110/2        #G Start print mode : Pulse rising
#PC3118/0        #G TouchDown Sensor : Pulse falling
#PC3116/0        #G Lab release time : 0 ms
#PC3106/1        #G Dwell time : 1 ms
#PC3107/1        #G Blow on time : 1 ms
#PC3108/0        #G Restart delay : 0 ms
#PC3115/80       #G Stop lag time : 80 ms
#PC3109/2000     #G Position timeout : 2000 ms
#PC3117/99       #G TouchDownTimeout : Off
#PC3111/0        #G Apply comp. time : 0 ms
#G-----
#G I/O Board Parameter Menu
#G-----
#PC3203/0        #G Start print mode : Pulse falling
#PC3204/0        #G Reprint signal : Off
#PC3205/0        #G Feed input : Off
#PC3206/0        #G Pause input : Off
#PC3207/0        #G Error output : Printer error
#PC3208/0        #G Error polarity : Level low active
#PC3209/1        #G Status output : Low ribbon warn.
#PC3210/0        #G Status polarity : Level low active
#PC3211/0        #G End print mode : Mode0 inactive
#G-----
#G LTSI Applicator Parameter Menu
#G-----
#PC3152/0        #G Apply mode : After start sig.
#PC3153/190      #G Stroke length : 190 mm
#PC3154/0        #G Appl. waitpos. : 0 mm

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC3155/350.0      #G  Applicator speed : 350 mm/s
#PC3158/0          #G  Restart delay   :    0 ms
#G-----
#G ZPL Parameter Menu
#G-----
#PC4002/15         #G  Darkness       : 15
#PC4003/126        #G  Control Prefix  : 7EH
#PC4004/94         #G  Format Prefix   : 5EH
#PC4005/44         #G  Delimiter Char : 2CH
#PC4006/0          #G  Label Top      : 0 Dots
#PC4007/0          #G  Left Position  : 0 Dots
#PC4009/0          #G  Resolution    : 300 DPI
#PC4010/0          #G  Error Indication : OFF
#PC4011/0          #G  Error Checking  : YES
#PC4013/0          #G  Image Save Path : Internal RAM
#PC4014/1          #G  Command ^PR    : Enable
#PC4015/1          #G  Command ^MT    : Enable
#PC4017/0          #G  Label Invert   : Disable
#PC4016/1          #G  Command ^JM    : Enable
#PC4018/1          #G  Command ^MD/~SD : Enable
#G-----
#G RFID Parameter Menu
#G-----
#PC5208/10         #G  Power level    : [10]
#PC5201/10         #G  Try Times      : 10
#PC2055/3          #G  Max Tags to stop : 3
#PC2056/1          #G  Nr CMD retries  : 1
#PC5204/0          #G  Chip Protection : Off
#PC5206/6.0        #G  Chip Size      : 6.0 mm
#PC5205/20.0       #G  Chip Offset    : 20.0 mm
#G-----
#G Printer Special Menue
#G-----
*PC5001/1          #G *Printer type    : AP 5
*PC5002/1          #G *Printhead type  : KPA 300 DPI
#PC5004/0          #G  Command sequence : '##'
#PC5005/0          #G  EasyPl. file log : Off
#PC5129/0          #G  Flash Res. Area  : 0 KBytes
#G-----
#G Printer Service Menu
#G-----
#PC5111/0          #G  Spec parameter 1 : 0
#PC5112/0          #G  Spec parameter 2 : 0
#PC5113/0          #G  EasyPlug Monitor : Off
#PC5125/0          #G  EP Monitor Mode  : Interpreter data
*PC5116/140        #G *Punch adjust     : 140
*PC5117/112        #G *Reflex adjust     : 112
*PC5119/128        #G *Foil adjust       : 128
*PC5120/128        #G *Head sens adjust  : 128
*PC5121/128        #G *Optn.1           : 128
*PC5122/128        #G *Optn.2 adjust     : 128
#PC5101/35         #G  Matend tolerance : 35 mm
#PC5102/0.0        #G  Feed adjust       : 0.0 % [ribbon]
#PC5105/0.0        #G  Feed adjust       : 0.0 % [direct]
#PC5103/0.0        #G  Foil feed adjust  : 0.0 %
*PC5104/0.0        #G *Punch y calibr.   : 0.0 mm
#PC5132/0          #G  Rew.Sens.Connect : At stepperdriver
*PC5123/32832      #G *Rewinder adjust   : 32832
#G-----
#G DHCP Addresses
#G-----
#G readonly ID=30001 #G  IP address       : 000.000.000.000
#G readonly ID=30002 #G  Net mask         : 000.000.000.000
#G readonly ID=30003 #G  Gateway address  : 000.000.000.000
#G-----
#G Module Firmware Versions
#G-----
#G readonly ID=30004 #G  System version   : V7.T10568M

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30067 #G System revision : 10568M
#G readonly ID=30070 #G System date : Sep 27 2016
#G readonly ID=30061 #G Bootloader : V3.90
#G readonly ID=30062 #G uMon : V2.1 26Sep2016
#G readonly ID=30076 #G Model ID : AP 5.4 300 Dpi Gen-2
#G readonly ID=30086 #G PnP Hardware ID : NovexxAP5.4_300dpi1EC5
#G readonly ID=30077 #G Printer-Model : AP 5.
#G readonly ID=30078 #G Printhead : 4
#G readonly ID=30079 #G Printhead dpi : 300
#G readonly ID=30080 #G Printhead Dot/mm : 11.811000
#G readonly ID=30081 #G Storage media : RAM,SD
#G readonly ID=30052 #G Peripheraldriver : V 3 - T 3

```

#G Operational Data

```

#G readonly ID=30014 #G Serv. operations : 0
#G readonly ID=30015 #G Head number : 1
#G readonly ID=30016 #G Roll number : 1
#G readonly ID=30018 #G Head run length : 104 m
#G readonly ID=30019 #G Roll run length : 112 m
#G readonly ID=30021 #G Tot. mat. length : 112 m
#G readonly ID=30022 #G Tot. foil length : 74 m
#G readonly ID=30025 #G Head strobes : 1219950
#G readonly ID=30071 #G Head temperature : 20 °C
#G readonly ID=30026 #G Foil diameter : 80.4 mm
#G readonly ID=30028 #G Operation time : 0 hours 1 min
#G readonly ID=30082 #G Total Operation : 76 hours 10 min

```

#G Power supply data

```

#G readonly ID=30029 #G PS type : Blue Mountain
#G readonly ID=30072 #G PS Temperature : 24 °C

```

#G CPU board data

```

#G readonly ID=30034 #G CPU identifier : 2-4
#G readonly ID=30036 #G PCB Revision : REV00
#G readonly ID=30037 #G FPGA version : 6A04
#G readonly ID=30039 #G MAC Address : 000A.44.07.00.05
#G readonly ID=30040 #G Serial number : A100149091300006
#G readonly ID=30041 #G Production date : 02.04.2009
#G readonly ID=30042 #G PCB part number : A100148
#G readonly ID=30043 #G Board part numb. : A100150
#G readonly ID=30044 #G Manufacturer : Multitech Sys
#G readonly ID=30045 #G Work place : FCT Dolphin
#G readonly ID=30046 #G Company name : Avery Dennison

```

#G Display board data

```

#G readonly ID=30059 #G Display Version : V3.10
#G readonly ID=30068 #G Display serialNr : A714900S08100457

```

#G Internal Memory Configuration

```

#G readonly ID=30007 #G RAM memory size : 64 MB
#G readonly ID=30008 #G Flash mem size : 4 MB AMD
#G readonly ID=30064 #G SD card : 7.50GB/8GB (c:)
#G readonly ID=30010 #G Space for Jobs : 46.4 MB
#G readonly ID=30011 #G Max. Labellength : 11612 mm
#G readonly ID=30013 #G Custom defaults : No

```

#G Statistics

```

#G readonly ID=30100 #G Nr of Tags :
#G readonly ID=30101 #G Nr. invalid tags :
#G readonly ID=30110 #G Scrap rate : 100.0 %
#G readonly ID=30102 #G Total Nr. SELECT :
#G readonly ID=30103 #G Invalid SELECT :

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30104 #G Total Nr. READ :
#G readonly ID=30105 #G Invalid READ :
#G readonly ID=30106 #G Total Nr. WRITES :
#G readonly ID=30107 #G Invalid WRITE :
#G readonly ID=30108 #G Rate READ :
#G readonly ID=30109 #G Rate WRITE :
#G-----
#G Printer Debug Menu
#G-----
#PC5127/0 #G Debug interface : Off
#PC5124/0 #G Debug mask : 0
#PC5128/-1872945986 #G Debug IP address : 144.093.028.190
#PC5404/0 #G Fields : Off
#PC5400/0 #G Label generation : Off
#PC5401/0 #G Print handling : Off
#PC5402/0 #G Variables : Off
#PC5408/0 #G OLV data : Off
#PC5403/0 #G Pctrl communica. : Off
#PC5406/0 #G RFID-Reader : Off
#PC5407/0 #G RFID-Task : Off
#PC5131/1 #G BitimageFileDump : Easyplug select
#PC5405/0 #G Debug Shell : Off
#PC5409/0 #G Text Seg.Observ. : Off
#G-----
#G Execute system restart ( 270 parameters )
#G-----
#PC999999/-1#G

```

Setup file for 64-05 (Gen. 2)

```

#!A1
#G Machine Setup for 64-05 Version: V3.40
#G Serial number :
#G MAC Address :
#G Creation date : 24.02.2017 07:14
#G-----
#G Printer Parameter Menu
#G-----
#PC1001/1 #G Infeed no. : Nr. 1
#PC1002/8 #G Inf. change spd. : 8 Inch/s
#PC1003/7.00 #G Print speed : 7 Inch/s
#PC1004/7.00 #G Feed speed : 7 Inch/s
#PC1005/1 #G Materialtype : Punched
#PC1006/24.92 #G Materiallength : 24.9 mm
#PC1007/49.83 #G Materialwidth : 49.8 mm
#PC1008/0.00 #G Punch offset : 0.0 mm
#PC1009/1 #G Bar code multip. : * 1
#PC1010/0 #G UPC plain-copy : In line
#PC1011/0 #G EAN Readline : Standard
#PC1012/0 #G EAN sep. lines : With readl. only
#PC1013/1 #G Rotated barcodes : Optimized
#PC1014/0 #G Dispense Mode : Real 1:1 mode
#PC1015/3 #G Cut speed : 3 Inch/s
#PC1016/128 #G Cut width : 128 mm
#PC1017/0.00 #G Cut position : 0.0 mm
#PC1018/0.00 #G Double cut : 0.0 mm
#PC1019/1 #G Rewind direction : Printing outside
*PC1020/0.00 #G *X - Printadjust : 0.0 mm
*PC1021/0.00 #G *Y - Printadjust : 0.0 mm
#PC1022/0 #G Punchmode : Automatic
#PC1023/128 #G Punchlevel : 128
#G-----
#G Printer System Menu
#G-----
#PC2001/24.50 #G Head disp dist. : 24.5 mm
#PC2002/0 #G Speed unit : Inch/s
#PC2003/36.40 #G Foil end warning : 36.4 mm

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC2004/0          #G Display mode      : Job rest quant.
*PC2005/0          #G *Dispense counter : 0
#PC2006/0          #G w/wo magazine   : with
#PC2007/0          #G Autom. dot check : Off
#PC2008/10         #G Earliest dottest  : after 10 label
#PC2009/0          #G Latest dotcheck   : after 0 label
#PC2010/0          #G Dottestarea from : 0 mm
#PC2011/128        #G Dottestarea to  : 128 mm
#PC2012/0          #G Print emulation  : Easyplug
#PC2013/9          #G Character sets   : IBM
#PC2014/0          #G Character filter : Chars >= 20Hex
#PC2015/0          #G Light sens. type : Punched
#PC2016/0          #G Head-sensor dist : 0 mm
#PC2017/50         #G Sens. punch-LS   : 50 %
#PC2018/0          #G Ribbon autoecon. : Disabled
#PC2019/10.00      #G Ribb. eco. limit : 10.0 mm
#PC2058/0          #G Feed mode       : Head up
#PC2020/1          #G Turn-on mode    : Online
#PC2021/0          #G Interface delay : 0 ms
#PC2022/1          #G Error reprint   : Enabled
#PC2023/0          #G Single-job mode  : Disabled
*PC2024/1276       #G *Head resistance : 1276 Ohm
#PC2026/20         #G Temp. reduction : 20 %
#PC2027/0          #G Voltage offset  : 0 %
#PC2028/1          #G Logo expansion  : Yes
#PC2029/2          #G Miss. label tol. : 2
#PC2030/1          #G Mat. end detect. : Transparent
#PC2031/0          #G Periph. device  : None
#PC2032/2          #G Infeed module   : 2 infeeds
#PC2033/1          #G Singlestartquant : 1
#PC2034/0          #G Dispensing mode  : fast
#PC2035/0          #G Application mode : Save mode
#PC2036/0          #G Appl. waitpos.   : 0 mm
#PC2037/10         #G Applicator speed : 10 Inch/s
#PC2038/0          #G Start mode       : Edge
#PC2039/0          #G Start source     : Light barrier
#PC2040/0          #G Dispensing edge  : short
#PC2041/0          #G Transport mode   : Dispenser motor
#PC2042/0          #G External signal  : Disabled
#PC2043/0          #G Signal edge      : Falling edge
#PC2044/1          #G Apply key        : Enabled
#PC2045/70         #G Print contrast   : 70 %
#PC2046/512        #G Ram disk size    : 512 KBytes
#PC2047/256        #G Font downl. area : 256 KBytes
#PC2048/512        #G Free store size  : 512 KBytes
#PC2049/0          #G Print info mode  : Par.values right
#PC2050/0          #G Reprint function : Disabled
#PC2051/1          #G Language         : English
#PC2052/1          #G Signal / buzzer  : On
#PC2053/0          #G Access autoriz.  : Deactivated
#G-----
#G Easyplug Interpreter
#G-----
#PC1101/1          #G Interface        : Centronics
#PC1102/0          #G Spooler mode     : Mult. print jobs
*PC1103/1          #G *Printer ID no.  : 1
#PC1104/64         #G Spooler size     : 64 KBytes
#G-----
#G COM1 Port Parameter
#G-----
#PC1201/5          #G Baud rate        : 9600 Baud
#PC1202/8          #G No. of data bits : 8
#PC1203/2          #G Parity           : None
#PC1204/1          #G Stop bits        : 1 Bit
#PC1205/0          #G Data synch.      : RTS/CTS
#PC1206/0          #G Serial port mode : RS232
#PC1207/1          #G Frame error      : Display
#G-----

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

#G COM2 Port Parameter

```
#G-----
#PC1301/0          #G Function Option   : None
#PC1302/5          #G Baud rate        : 9600 Baud
#PC1303/8          #G No. of data bits  : 8
#PC1304/2          #G Parity           : None
#PC1305/1          #G Stop bits        : 1 Bit
#PC1306/0          #G Data synch.      : RTS/CTS
#PC1307/0          #G Serial port mode : RS232
#PC1308/1          #G Frame error      : Display
#G-----
```

#G Centronics Port Parameter

```
#G-----
#PC1401/1          #G PnP function     : On
#PC1402/0          #G Select signal    : Always online
#PC1403/0          #G SelectIn signal  : Supported
#G-----
```

#G Ethernet Parameter

```
#G-----
#PC1501/1          #G IP Addressassign : Fixed IP address
*PC1502/872611845 #G *IP address     : 052.003.000.005
*PC1503/-256       #G *Net mask        : 255.255.255.000
*PC1504/872611840 #G *Gateway address : 052.003.000.000
#PC1505/4000        #G Port address     : 4000
#PC1506/0           #G Ethernet speed   : Auto negotiation
#PC1507/0           #G FTP server       : Disabled
#PC1508/avery#G     #G FTP Password     : avery
#G-----
```

#G Printer Special Menue

```
#G-----
*PC5001/0          #G *Printer type    : 64-0x
*PC5002/1          #G *Printhead type  : KCE 5Inch
#PC5003/1          #G Disp. Head Offs. : Yes
#PC5004/0          #G Command sequence : '#G'
#G-----
```

#G Printer Service Menu

```
#G-----
*PC5101/0          #G *Head step tune  : 0 step(s)
#PC5111/0          #G Spec parameter 1 : 0
#PC5112/0          #G Spec parameter 2 : 0
#PC5113/0          #G EasyPlug monitor : Disabled
#PC5114/0.00       #G Paper jam level  : 0.0 %
*PC5115/128        #G *Matend adjust   : 128
*PC5116/128        #G *Punch adjust    : 128
*PC5117/128        #G *Reflex adjust   : 128
*PC5118/128        #G *Fullsize adjust : 128
*PC5123/0          #G *Rewinder adjust : 0
#PC5124/0          #G Debug           : 0
#G-----
```

#G Dispenser Interface

```
#G-----
#PC3001/0          #G Interface type   : USI interface
#PC3002/0.00       #G Start delay      : 0.0 mm
#PC3003/0          #G Start print mode : Pulse falling
#PC3004/0          #G End print mode   : Mode 0
#PC3005/0          #G Reprint signal   : Disabled
#PC3006/1          #G Ribbon signal    : Enabled
#PC3007/0          #G Material signal  : Disabled
#PC3008/0          #G Feed input       : Standard
#PC3008/0          #G Pause input      : Standard
#PC3009/0          #G Start error stop : Off
#PC3010/1          #G Internal inputs  : Enabled
#PC3011/0          #G Applicate mode   : After start sig.
#G-----
```

#G Not visible

```
#G-----
#PC4008/12000      #G Max Media Length : 12000 Dots
#G-----
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

#G OLV Parameter Menu

```

#G-----
#PC3501/0          #G Verify mode      : All barcodes
#PC3502/0          #G Cancel. printing : Disabled
#PC3503/0          #G Reprint quantity : 0
#PC3504/1          #G OLV mode         : fast
#PC3505/0          #G Ref Decode        : No test
#PC3506/-1         #G Decodability      : -1
#PC3507/-1         #G Modulation         : -1
#PC3508/-1         #G Defects            : -1
#PC3509/-1         #G Edge Contrast      : -1
#PC3510/-1         #G Rmin/Rmax          : -1
#PC3511/-1         #G Symbol Contrast    : -1
#PC3512/-1         #G PCS                : -1
#PC3513/-1         #G R (white)          : -1
#PC3514/-1         #G R (black)          : -1
#PC3515/-1         #G Ratio              : -1
#PC3516/-1         #G ANSI Symb. Grade   : -1
#PC3517/10         #G Dist. head-beam    : 10 mm
#G-----

```

#G ZPLII Parameter Menu

```

#G-----
#PC4001/0          #G Emulator Version : v1.25
#PC4002/15         #G Darkness           : 15
#PC4003/126        #G Control Prefix     : 7EH
#PC4004/94         #G Format Prefix       : 5EH
#PC4005/44         #G Delimiter Char     : 2CH
#PC4006/0          #G Label Top          : 0 Dots
#PC4007/0          #G Left Position       : 0 Dots
#PC4009/0          #G Resolution          : 300 DPI
#PC4010/0          #G Error Indication    : OFF
#PC4011/0          #G Error Checking      : YES
#PC4012/0          #G 305 DPI Scaling     : YES
#PC4013/0          #G Image Save Path     : Internal RAM
#PC4014/1          #G Commad ^PR          : Enabled
#PC4015/1          #G Commad ^MT          : Enabled
#G-----

```

#G Applicator Parameter Menu

```

#G-----
#PC3101/0          #G Applicator type    : LTP - LTPV
#PC3102/0          #G Applicate mode     : After start sig.
#PC3103/0          #G Start error stop   : Off
#PC3104/0          #G APSF sensor res.   : 0 pulses/m
#PC3105/0.00       #G Start delay        : 0.0 mm
#PC3106/1          #G Dwell time         : 1 ms
#PC3107/1          #G Blow on time       : 1 ms
#PC3108/0          #G Restart delay      : 0 ms
#PC3109/2000       #G Position timeout   : 2000 ms
#G-----

```

#G Operational Data

```

#G-----
#G                #G Serv. operations : 0
#G                #G Head number      : 1
#G                #G Roll number      : 1
#G                #G Head run length  : 242 m
#G                #G Roll run length  : 345 m
#G                #G Tot. mat. length : 345 m
#G                #G Tot. foil length : 240 m
#G                #G Total head moves : 1966
#G                #G Head strobes     : 1978416
#G                #G Foil diameter   : 37.4 mm
#G                #G Operation time  : 164 hours 10 min
#G-----

```

#G Power supply data

```

#G-----
#G                #G Type              : CME PSupply
#G-----

```

#G CPU board data

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#G CPU identifier : 34-16
#G Syst. controller : GT-64111
#G PCB Revision : REV-04 A1159
#G Manufactur. data : not valid
#G-----
#G Peripheraldriver
#G-----
#G Feed driver : V 3 - T 3
#G Foil driver : V 3 - T 3
#G Head driver : V 3 - T 3
#G Peripheraldriver : V 3 - T 3
#G-----
#G Internal Memory Configuration
#G-----
#G Ram memory size : 8 MB
#G Flash mem size : 2 MB AMD
#G Compact flash : 123 MB
#G Space for Jobs : 2.7 MB
#G Max. Labellength : 529 mm
#G Default values : Standard
#G-----
#G Execute system restart ( 174 parameters )
#G-----
#PC999999/-1#G

```

Setup file for 64-06 (Gen. 3)

```

#!A1
#G Machine Setup for 64-06 Version: V6.60
#G Serial number : A662106142213663
#G MAC Address : 000A.44.06.35.5F
#G Creation date : 23.02.2017 17:16

#G-----
#G Printer Parameter Menu
#G-----
#PC1001/1 #G Infeed no. : Nr. 1
#PC1002/8 #G Inf. change spd. : 8 Inch/s
#PC1003/14.0 #G Print speed : 14 Inch/s
#PC1004/14.0 #G Feed speed : 14 Inch/s
#PC1005/0 #G Materialtype : Endless
#PC1006/25.0 #G Materiallength : 25.0 mm
#PC1007/100.0 #G Materialwidth : 100.0 mm
#PC1027/0 #G Print direction : Foot first
#PC1008/0.0 #G Punch offset : 0.0 mm
#PC1009/1 #G Bar code multip. : * 1
#PC1029/0 #G Tradit. Imaging : No
#PC1010/0 #G UPC plain-copy : In line
#PC1011/0 #G EAN Readline : Standard
#PC1012/0 #G EAN sep. lines : With readl. only
#PC1013/1 #G Rotated barcodes : Optimized
#PC1014/0 #G Dispense Mode : Real 1:1 mode
#PC1015/3 #G Cut speed : 3
#PC1016/160 #G Cut width : 160
#PC1017/0.0 #G Cut position : 0.0 mm
#PC1018/0.0 #G Double cut : 0.0 mm
#PC1019/1 #G Rewind direction : Printing outside
#PC1020/0.0 #G *X - Printadjust : 0.0 mm
#PC1021/0.0 #G *Y - Printadjust : 0.0 mm
#PC1022/0 #G Punchmode : Automatic
#PC1023/128 #G Punchlevel : 128
#PC1024/30 #G Matend : 30
#G-----
#G Easyplug Interpreter
#G-----
#PC1101/7 #G Interface : Automatic

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC1102/0          #G Spooler mode      : Mult. print jobs
#PC1103/1          #G *Printer ID no.   : 1
#PC1104/64         #G Spooler size      : 64 KBytes
#PC2072/0          #G Offline mode     : Interf. disabled
#PC2021/0          #G Interface delay   : 0 ms
#G-----
#G COM1 Port Parameter
#G-----
#PC1201/8          #G Baud rate       : 115200 Baud
#PC1202/8          #G No. of data bits : 8
#PC1203/2          #G Parity         : None
#PC1204/1          #G Stop bits      : 1 Bit
#PC1205/0          #G Data synch.    : RTS/CTS
#PC1206/0          #G Serial port mode : RS232
#PC1207/1          #G Frame error    : Display
#G-----
#G COM2 Port Parameter
#G-----
#PC1302/8          #G Baud rate       : 115200 Baud
#PC1303/8          #G No. of data bits : 8
#PC1304/2          #G Parity         : None
#PC1305/1          #G Stop bits      : 1 Bit
#PC1306/0          #G Data synch.    : RTS/CTS
#PC1307/0          #G Serial port mode : RS232
#PC1308/1          #G Frame error    : Display
#G-----
#G COM3 Port Parameter
#G-----
#PC1351/2          #G Baud rate       : 9600 Baud
#PC1353/8          #G No. of data bits : 8
#PC1354/1          #G Parity         : None
#PC1355/2          #G Stop bits      : Automatic
#PC1356/0          #G Data synch.    : RTS/CTS
#PC1357/0          #G Serial port mode : RS232
#PC1358/1          #G Frame error    : Display
#G-----
#G COM4 Port Parameter
#G-----
#PC1361/2          #G Baud rate       : 9600 Baud
#PC1363/8          #G No. of data bits : 8
#PC1364/1          #G Parity         : None
#PC1365/2          #G Stop bits      : 2 Bit
#PC1366/0          #G Data synch.    : RTS/CTS
#PC1368/1          #G Frame error    : Display
#G-----
#G COM5 Port Parameter
#G-----
#PC1371/2          #G Baud rate       : 9600 Baud
#PC1373/8          #G No. of data bits : 8
#PC1374/1          #G Parity         : None
#PC1375/2          #G Stop bits      : 2 Bit
#PC1376/0          #G Data synch.    : RTS/CTS
#PC1378/1          #G Frame error    : Display
#G-----
#G Centronics Port Parameter
#G-----
#PC1401/1          #G PnP function    : On
#G-----
#G Ethernet Parameter
#G-----
#PC1501/1          #G IP Addressassign : Fixed IP address
#PC1502/192.168.001.099 #G *IP address     : 192.168.001.099
#PC1503/255.255.255.000 #G *Net mask       : 255.255.255.000
#PC1504/000.000.000.000 #G *Gateway address : 000.000.000.000
#PC1505/9100       #G Port address     : 9100
#PC1506/0          #G Ethernet speed   : Auto negotiation
#PC1513/6404_06355F#G #G DHCP host name  : 6404_06355F
#PC1514/novexx#G   #G WLAN SSID       : novexx

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC1515/0          #G WLAN WEP          : Off
#PC1516/1          #G WLAN default key : 1
#PC1523/123456789a#G #G WLAN 64Bit Key 1 : 123456789a
#PC1524/123456789a#G #G WLAN 64Bit Key 2 : 123456789a
#PC1525/123456789a#G #G WLAN 64Bit Key 3 : 123456789a
#PC1526/123456789a#G #G WLAN 64Bit Key 4 : 123456789a
#PC1517/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 1 : 123456789AB-
CD123456789ABCD
#PC1518/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 2 : 123456789AB-
CD123456789ABCD
#PC1519/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 3 : 123456789AB-
CD123456789ABCD
#PC1520/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 4 : 123456789AB-
CD123456789ABCD
#PC1521/0          #G SNMP Agent          : Off
#PC1522/public#G    #G SNMP password       : public
#PC1507/1          #G FTP server          : On
#PC1508/novexx#G    #G FTP Password        : novexx
#PC1509/1          #G WEB server          : On
#PC1510/5          #G WEB display refr    : 5 s
#PC1511/admin#G     #G WEB admin passw.    : admin
#PC1512/supervisor#G #G WEB supervisor p. : supervisor
#PC1532/operator#G  #G WEB operator p.   : operator
#PC1529/0          #G Time client         : Off
#PC1530/-2105212662 #G Time server IP      : 130.133.001.010
#PC1531/3600       #G Sync. interval     : 3600 s
#PC1533/0.0        #G Time zone          : +0:00
#G-----
#G Options Parameter
#G-----
#PC3518/0          #G OLV Option          : Off
#PC5207/0          #G RFID Option         : Off
#PC1550/0          #G StandAlone Input    : None
#PC5310/0          #G #GVW/I Interface    : Easyplug
#G-----
#G Drive Assignment
#G-----
#PC1600/1          #G Drive C             : CompactFlash
#PC1602/3          #G Drive E             : SD card
#PC1603/4          #G Drive F             : USB stick
#G-----
#G Printer System Menu
#G-----
#PC2002/0          #G Speed unit          : Inch/s
#PC2069/0          #G Cover open error    : If material feed
#PC2003/36.4       #G Foil end warning    : 36.4 mm
#PC2060/0          #G Foil warn stop      : Off
#PC2004/0          #G Display mode        : Job rest quant.
#PC2005/32         #G *Dispense counter   : 32
#PC2006/0          #G w/wo magazine      : with
#PC2007/0          #G Autom. dot check    : Off
#PC2008/10         #G Earliest dottest    : after 10 label
#PC2009/0          #G Latest dotcheck     : after 0 label
#PC2010/0          #G Dottestarea from    : 0 mm
#PC2011/107        #G Dottestarea to      : 107 mm
#PC2012/0          #G Print Interpret.    : Easyplug
#PC2013/9          #G Character sets       : IBM
#PC2014/0          #G Character filter     : Chars >= 20Hex
#PC2015/0          #G Label sens. type    : Punched
#PC2016/0          #G Head-sensor dist    : 0 mm
#PC2017/50         #G Sens. punch-LS      : 50 %
#PC2018/0          #G Ribbon autoecon.    : Off
#PC2019/10.0       #G Ribb. eco. limit    : 10.0 mm
#PC2077/0.0        #G Head down lead      : 0.0 mm
#PC2058/0          #G Feed mode           : Head up
#PC2020/1          #G Turn-on mode        : Online
#PC2022/1          #G Error reprint       : On
#PC2071/0          #G EasyPlug errors     : Tolerant handl.

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC2023/0          #G Single-job mode : Off
#PC2024/1325       #G *Head resistance : 1325 Ohm
#PC2026/20         #G Temp. reduction : 20 %
#PC2027/0          #G Voltage offset : 0 %
#PC2028/1          #G Logo expansion : Yes
#PC2029/2          #G Miss. label tol. : 2
#PC2067/1          #G Gap detect. mode : Autom. forward
#PC2068/5          #G Foil stretching : Feedback: 5 mm
#PC3306/0          #G Head lift autom. : Off
#PC2030/1          #G Mat. end detect. : Transparent
#PC2031/0          #G Periph. device : None
#PC2032/2          #G Infeed module : 2 infeeds
#PC2033/1          #G Singlestartquant : 1
#PC2034/0          #G Dispensing mode : fast
#PC2035/0          #G Application mode : Safe mode
#PC2036/0          #G Appl. waitpos. : 0 mm
#PC2037/10         #G Applicator speed : 10 Inch/s
#PC2039/0          #G Start source : Light barrier
#PC2040/0          #G Dispensing edge : short
#PC2001/24.5       #G Head disp dist. : 24.5 mm
#PC2042/0          #G External signal : Off
#PC2043/0          #G Start print mode : Pulse falling
#PC2044/1          #G Apply key : On
#PC2045/110        #G Print contrast : 110 %
#PC2046/512        #G Ram disk size : 512 KBytes
#PC2047/256        #G Font downl. area : 256 KBytes
#PC2048/4096       #G Free store size : 4096 KBytes
#PC2049/0          #G Print info mode : Par.values right
#PC2050/0          #G Reprint function : Off
#PC2051/1          #G Language : English
#PC2063/1          #G Keyboard : English
#PC2052/0          #G Signal / buzzer : Off
#PC2053/0          #G Access authoriz. : Off
#PC1026/0          #G Material feed : for- / backwards
#G-----
#G Peripheral Parameter Menu
#G-----
#PC2059/80         #G Max InitFeedback : 80 mm
#PC2041/0          #G Transport mode : Dispenser motor
#PC1031/100        #G Forw feed rat. : 100 %
#PC1032/100        #G Backw feed rat. : 100 %
#PC6004/15.0       #G Start offset : 15.0 mm
#PC6014/0          #G Start error stop : Off
#PC6017/0.0        #G Product length : 0.0 mm
#PC6005/0          #G Speed Adaption : Off
#PC6006/1          #G Encoder Type : 2 Phases normal
#PC6008/500        #G Encoder Resol. : 500 pulses/turn
#PC6009/64.0       #G Encoder Diameter : 64.0mm 0.0var
#PC6035/0          #G Multi label mode : Off
#PC6036/25.0       #G Label 2 offset : 25.0 mm
#PC6037/25.0       #G Label 3 offset : 25.0 mm
#G-----
#G Dispenser Interface
#G-----
#PC3001/0          #G Interface type : USI interface
#PC3003/0          #G Start print mode : Pulse falling
#PC3004/0          #G End print mode : Mode 0
#PC3005/0          #G Reprint signal : Off
#PC3006/1          #G Ribbon signal : On
#PC3007/0          #G Material signal : Off
#PC2061/0          #G Mat. signal stop : Off
#PC3013/60.0       #G Diam. mat. end : 60.0 mm
#PC3008/0          #G Feed input : Standard
#PC3012/0          #G Pause input : Standard
#PC3009/0          #G Start error stop : Off
#PC3010/1          #G Internal inputs : On
#PC3011/0          #G Apply mode : After start sig.
#PC3014/0          #G USI profile : Default

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```
#PC3015/1          #G Warning signal : Level high activ
```

```
#G-----
```

```
#G Applicator Parameter Menu (AI Board)
```

```
#G-----
```

```
#PC3101/6          #G Applicator type : Direct Dispense
#PC3102/0          #G Apply mode : After start sig.
#PC3110/2          #G Start print mode : Pulse rising
#PC3118/0          #G TouchDown Sensor : Pulse falling
#PC3114/0          #G Label verify : Off
#PC3116/0          #G Lab release time : 0 ms
#PC3106/1          #G Dwell time : 1 ms
#PC3107/1          #G Blow on time : 1 ms
#PC3108/0          #G Restart delay : 0 ms
#PC3115/80         #G Stop lag time : 80 ms
#PC3109/2000       #G Position timeout : 2000 ms
#PC3117/99         #G TouchDownTimeout : Off
#PC3111/0          #G Apply comp. time : 0 ms
```

```
#G-----
```

```
#G I/O Board Parameter Menu
```

```
#G-----
```

```
#PC3203/0          #G Start print mode : Pulse falling
#PC3204/0          #G Reprint signal : Off
#PC3205/0          #G Feed input : Off
#PC3206/0          #G Pause input : Off
#PC3207/0          #G Error output : Printer error
#PC3208/0          #G Error polarity : Level low active
#PC3209/1          #G Status output : Low ribbon warn.
#PC3210/0          #G Status polarity : Level low active
#PC3211/0          #G End print mode : Mode0 inactive
```

```
#G-----
```

```
#G OLV Parameter Menu
```

```
#G-----
```

```
#PC3501/0          #G Verify mode : All barcodes
#PC3502/0          #G Cancel. printing : Off
#PC3503/0          #G Reprint quantity : 0
#PC3504/1          #G OLV mode : fast
#PC3505/0          #G Ref Decode : No test
#PC3506/-1         #G Decodability : -1
#PC3507/-1         #G Modulation : -1
#PC3508/-1         #G Defects : -1
#PC3509/-1         #G Edge Contrast : -1
#PC3510/-1         #G Rmin/Rmax : -1
#PC3511/-1         #G Symbol Contrast : -1
#PC3512/-1         #G PCS : -1
#PC3513/-1         #G R (white) : -1
#PC3514/-1         #G R (black) : -1
#PC3515/-1         #G Ratio : -1
#PC3516/-1         #G ANSI Symb. Grade : -1
#PC3517/10         #G Dist. head-beam : 10 mm
```

```
#G-----
```

```
#G LTSI Applicator Parameter Menu
```

```
#G-----
```

```
#PC3152/0          #G Apply mode : After start sig.
#PC3153/190        #G Stroke length : 190 mm
#PC3154/0          #G Appl. waitpos. : 0 mm
#PC3155/350.0      #G Applicator speed : 350 mm/s
#PC3158/0          #G Restart delay : 0 ms
```

```
#G-----
```

```
#G ZPL Parameter Menu
```

```
#G-----
```

```
#PC4002/15         #G Darkness : 15
#PC4003/126        #G Control Prefix : 7EH
#PC4004/94         #G Format Prefix : 5EH
#PC4005/44         #G Delimiter Char : 2CH
#PC4006/0          #G Label Top : 0 Dots
#PC4007/0          #G Left Position : 0 Dots
#PC4009/0          #G Resolution : 300 DPI
#PC4010/0          #G Error Indication : OFF
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC4011/0          #G Error Checking      : YES
#PC4012/0          #G 305 DPI Scaling    : YES
#PC4013/0          #G Image Save Path    : Internal RAM
#PC4014/1          #G Command ^PR       : Enable
#PC4015/1          #G Command ^MT       : Enable
#PC4017/0          #G Label Invert      : Disable
#PC4016/1          #G Command ^JM       : Enable
#PC4018/1          #G Command ^MD/~SD    : Enable
#G-----
#G RFID Parameter Menu
#G-----
#PC5208/10         #G Power level      : [10]
#PC5201/10         #G Try Times       : 10
#PC2055/3          #G Max Tags to stop : 3
#PC2056/1          #G Nr CMD retries   : 1
#PC5204/0          #G Chip Protection   : Off
#PC5206/6.0        #G Chip Size        : 6.0 mm
#PC5205/20.0       #G Chip Offset       : 20.0 mm
#G-----
#G Printer Special Menue
#G-----
#PC5001/0          #G *Printer type    : 64-0x
#PC5002/2          #G *Printhead type   : KCE 6Inch
#PC5003/0          #G Disp. Head Offs. : No
#PC5004/0          #G Command sequence : '#G'
#PC5006/0          #G *Sensor type     : Standard
#PC5005/0          #G EasyPl. file log : Off
#PC5129/0          #G Flash Res. Area  : 0 KBytes
#G-----
#G Printer Service Menu
#G-----
#PC5110/-1         #G *Head step tune   : -1 step(s)
#PC5111/0          #G Spec parameter 1 : 0
#PC5112/0          #G Spec parameter 2 : 0
#PC5113/0          #G EasyPlug Monitor : Off
#PC5125/0          #G EP Monitor Mode   : Interpreter data
#PC5115/95         #G *Matend adjust    : 95
#PC5116/75         #G *Punch adjust     : 75
#PC5117/200        #G *Reflex adjust     : 200
#PC5118/155        #G *Fullsize adjust  : 155
#PC5130/255        #G *Aux adjust       : 255
#PC5101/35         #G Matend tolerance  : 35 mm
#PC5102/0.0        #G Feed adjust       : 0.0% [ribbon]
#PC5105/0.0        #G Feed adjust       : 0.0% [direct]
#PC5103/0.0        #G Foil feed adjust  : 0.0 %
#PC5104/0.0        #G *Punch y calibr.  : 0.0 mm
#PC5132/0          #G Rew.Sens.Connect  : At stepperdriver
#PC5123/44629      #G *Rewinder adjust  : 44629
#G-----
#G DHCP Addresses
#G-----
#G readonly ID=30001 #G IP address       :
#G readonly ID=30002 #G Net mask         :
#G readonly ID=30003 #G Gateway address  :
#G-----
#G Module Firmware Versions
#G-----
#G readonly ID=30004 #G System version   : V6.60
#G readonly ID=30067 #G System revision   : 9456
#G readonly ID=30070 #G System date      : Jan 19 2016
#G readonly ID=30061 #G Bootloader       : V3.83
#G readonly ID=30062 #G uMon            : V3.7 30Jun2015
#G readonly ID=30076 #G Model-ID        : 64-06
#G readonly ID=30077 #G Printer-Model    : 64-0x
#G readonly ID=30078 #G Printhead        : 6
#G readonly ID=30079 #G Printhead dpi     : 305
#G readonly ID=30080 #G Printhead Dot/mm  : 12.000000
#G readonly ID=30081 #G storage medias    : RAM, SD

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30049 #G Feed driver : V 3 - T 3
#G readonly ID=30050 #G Foil driver : V 3 - T 3
#G readonly ID=30051 #G Head driver : V 3 - T 3
#G readonly ID=30052 #G Peripheraldriver : V 3 - T 3
#G readonly ID=30055 #G USI interface : V 14 - T 36
#G-----
#G Operational Data
#G-----
#G readonly ID=30014 #G Serv. operations : 0
#G readonly ID=30015 #G Head number : 0
#G readonly ID=30016 #G Roll number : 0
#G readonly ID=30018 #G Head run length : 7 m
#G readonly ID=30019 #G Roll run length : 7 m
#G readonly ID=30021 #G Tot. mat. length : 7 m
#G readonly ID=30022 #G Tot. foil length : 357928 m
#G readonly ID=30025 #G Head strobes : 88274
#G readonly ID=30071 #G Head temperature : 27 °C
#G readonly ID=30026 #G Foil diameter : 81.0 mm
#G readonly ID=30028 #G Operation time : 0 hours 0 min
#G readonly ID=30082 #G Total Operation : 2 hours 58 min
#G-----
#G Power supply data
#G-----
#G readonly ID=30029 #G Type : ME500PowerSupply
#G readonly ID=30030 #G Version : H9.03 F2.00
#G readonly ID=30031 #G Serial number : 14153060
#G readonly ID=30072 #G PS Temperature : 25 °C
#G readonly ID=30032 #G Standby+On time : 30 hours 46 min
#G readonly ID=30033 #G On time : 30 hours 46 min
#G readonly ID=30200 #G PS Reg. 0x000 : 90 00 00 19 00 FF 2F FF 40 5B
C0 B2 C0 52 30 27
#G readonly ID=30201 #G PS Reg. 0x010 : 00 00 30 46 00 00 30 46 00 00
1B 28 C0 FF 00 CC
#G readonly ID=30202 #G PS Reg. 0x020 : 2F 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30203 #G PS Reg. 0x030 : 01 FF 64 00 19 00 60 80 00 00
00 00 00 00 00 00
#G readonly ID=30204 #G PS Reg. 0x040 : 10 00 00 09 03 14 15 30 60 00
01 00 1E 00 00 00
#G readonly ID=30205 #G PS Reg. 0x050 : 91 4B 50 25 32 05 20 F0 DA 73
FF 37 AA 64 00 00
#G readonly ID=30206 #G PS Reg. 0x060 : 0A 46 32 32 00 6E 00 00 4B 00
19 19 00 00 32 0F
#G readonly ID=30207 #G PS Reg. 0x070 : 00 00 30 46 00 00 30 46 00 00
30 46 00 00 30 46
#G readonly ID=30208 #G PS Reg. 0x080 : 4D 45 35 30 30 50 6F 77 65 72
53 75 70 70 6C 79
#G readonly ID=30209 #G PS Reg. 0x090 : 02 00 00 00 00 00 00 00 50 5A
2D 3C 03 00 00 00
#G readonly ID=30210 #G PS Reg. 0x0A0 : C0 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30211 #G PS Reg. 0x0B0 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30212 #G PS Reg. 0x0C0 : 10 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30213 #G PS Reg. 0x0D0 : 80 4B 50 25 32 05 20 F0 DA 73
FF 37 AA 64 00 00
#G readonly ID=30214 #G PS Reg. 0x0E0 : 0A 46 32 32 00 6E 00 00 4B 00
19 19 00 00 32 00
#G readonly ID=30215 #G PS Reg. 0x0F0 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30216 #G PS Reg. 0x100 : 77 02 75 03 63 C6 40 4A 80 68
80 59 C0 B2 00 00
#G readonly ID=30217 #G PS Reg. 0x110 : 00 00 00 01 00 00 2A 00 00 3D
00 00 95 05 00 D8
#G readonly ID=30218 #G PS Reg. 0x120 : 00 00 2C 00 00 32 00 00 03 00
00 00 00 00 00 00

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30219 #G PS Reg. 0x130 : 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30220 #G PS Reg. 0x140 : 33 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30221 #G PS Reg. 0x150 : 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30222 #G PS Reg. 0x160 : 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30223 #G PS Reg. 0x170 : 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G-----
#G CPU board data
#G-----
#G readonly ID=30034 #G CPU identifier : 2-4
#G readonly ID=30036 #G PCB Revision : REV04
#G readonly ID=30037 #G FPGA version : C403
#G readonly ID=30039 #G MAC Address : 000A.44.06.35.5F
#G readonly ID=30040 #G Serial number : A662106142213663
#G readonly ID=30041 #G Production date : 26.05.2014
#G readonly ID=30042 #G PCB part number : A6619-04
#G readonly ID=30043 #G Board part numb. : A6621-06
#G readonly ID=30044 #G Manufacturer : Katek HU KFT
#G readonly ID=30045 #G Work place : FE1
#G readonly ID=30046 #G Company name : Katek HU KFT
#G-----
#G Display board data
#G-----
#G readonly ID=30059 #G Display Version : V3.10
#G readonly ID=30068 #G Display serialNr : A714901S14010288
#G-----
#G Internal Memory Configuration
#G-----
#G readonly ID=30007 #G RAM memory size : 64 MB
#G readonly ID=30008 #G Flash mem size : 4 MB AMD
#G readonly ID=30064 #G SD card : 7.50GB/8GB (e:)
#G readonly ID=30010 #G Space for Jobs : 47.7 MB
#G readonly ID=30011 #G Max. Labellength : 7602 mm
#G readonly ID=30013 #G Custom defaults : No
#G-----
#G Statistics
#G-----
#G readonly ID=30100 #G Nr of Tags :
#G readonly ID=30101 #G Nr. invalid tags :
#G readonly ID=30110 #G Scrap rate : 0.0 %
#G readonly ID=30102 #G Total Nr. SELECT :
#G readonly ID=30103 #G Invalid SELECT :
#G readonly ID=30104 #G Total Nr. READ :
#G readonly ID=30105 #G Invalid READ :
#G readonly ID=30106 #G Total Nr. WRITES :
#G readonly ID=30107 #G Invalid WRITE :
#G readonly ID=30108 #G Rate READ :
#G readonly ID=30109 #G Rate WRITE :
#G-----
#G Printer Debug Menu
#G-----
#PC5127/0 #G Debug interface : Off
#PC5124/0 #G Debug mask : 0
#PC5128/-1872945986 #G Debug IP address : 144.093.028.190
#PC5404/0 #G Fields : Off
#PC5400/0 #G Label generation : Off
#PC5401/0 #G Print handling : Off
#PC5402/0 #G Variables : Off
#PC5408/0 #G OLV data : Off
#PC5403/0 #G Pctrl communica. : Off
#PC5406/0 #G RFID-Reader : Off
#PC5407/0 #G RFID-Task : Off
#PC5131/1 #G BitimageFileDump : Easyplug select
#PC5405/0 #G Debug Shell : Off

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```
#PC5409/0          #G  Text Seg.Observ. : Off
#G-----
#G Execute system restart ( 297 parameters )
#G-----
#PC999999/-1#G
```

Setup file for ALX 926 (Gen. 3)

```
#!A1
#G Machine Setup for ALX 926      Version: V6.T9130
#G Serial number      : A662003063000738
#G MAC Address        : 000A.44.05.01.BB
#G Creation date      : 01.01.2000 00:00

#G-----
#G Printer Parameter Menu
#G-----
#PC1001/1          #G  Infeed no.      : Nr. 1
#PC1002/8          #G  Inf. change spd. : 8 Inch/s
#PC1003/2.0        #G  Print speed   : 2.0 Inch/s
#PC1004/2.0        #G  Feed speed    : 2.0 Inch/s
#PC1005/0          #G  Materialtype  : Endless
#PC1006/200.8      #G  Materiallength : 200.8 mm
#PC1007/100.8      #G  Materialwidth  : 100.8 mm
#PC1027/0          #G  Print direction : Foot first
#PC1008/0.0        #G  Punch offset   : 0.0 mm
#PC1009/1          #G  Bar code multip. : * 1
#PC1029/0          #G  Tradit. Imaging : No
#PC1010/0          #G  UPC plain-copy  : In line
#PC1011/0          #G  EAN Readline    : Standard
#PC1012/0          #G  EAN sep. lines  : With readl. only
#PC1013/1          #G  Rotated barcodes : Optimized
#PC1015/3          #G  Cut speed       : 3
#PC1016/160        #G  Cut width       : 160
#PC1018/0.0        #G  Double cut      : 0.0 mm
#PC1020/0.0        #G  *X - Printadjust : 0.0 mm
#PC1021/0.0        #G  *Y - Printadjust : 0.0 mm
#PC1022/0          #G  Punchmode       : Automatic
#PC1023/128        #G  Punchlevel      : 128
#PC1024/30         #G  Matend          : 30
#G-----
#G Easyplug Interpreter
#G-----
#PC1101/0          #G  Interface       : Serial Com1
#PC1102/0          #G  Spooler mode    : Mult. print jobs
#PC1103/1          #G  *Printer ID no. : 1
#PC1104/64         #G  Spooler size    : 64 KBytes
#PC2072/0          #G  Offline mode    : Interf. disabled
#PC2021/0          #G  Interface delay : 0 ms
#G-----
#G COM1 Port Parameter
#G-----
#PC1201/8          #G  Baud rate       : 115200 Baud
#PC1202/8          #G  No. of data bits : 8
#PC1203/2          #G  Parity          : None
#PC1204/1          #G  Stop bits       : 1 Bit
#PC1205/0          #G  Data synch.     : RTS/CTS
#PC1206/0          #G  Serial port mode : RS232
#PC1207/1          #G  Frame error     : Display
#G-----
#G COM2 Port Parameter
#G-----
#PC1302/8          #G  Baud rate       : 115200 Baud
#PC1303/8          #G  No. of data bits : 8
#PC1304/2          #G  Parity          : None
#PC1305/1          #G  Stop bits       : 1 Bit
#PC1306/0          #G  Data synch.     : RTS/CTS
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC1307/0          #G  Serial port mode : RS232
#PC1308/1          #G  Frame error      : Display
#G-----
#G COM3 Port Parameter
#G-----
#PC1351/2          #G  Baud rate       : 9600 Baud
#PC1353/8          #G  No. of data bits : 8
#PC1354/1          #G  Parity          : None
#PC1355/2          #G  Stop bits       : Automatic
#PC1356/0          #G  Data synch.     : RTS/CTS
#PC1357/0          #G  Serial port mode : RS232
#PC1358/1          #G  Frame error      : Display
#G-----
#G COM4 Port Parameter
#G-----
#PC1361/2          #G  Baud rate       : 9600 Baud
#PC1363/8          #G  No. of data bits : 8
#PC1364/1          #G  Parity          : None
#PC1365/2          #G  Stop bits       : 2 Bit
#PC1366/0          #G  Data synch.     : RTS/CTS
#PC1368/1          #G  Frame error      : Display
#G-----
#G COM5 Port Parameter
#G-----
#PC1371/2          #G  Baud rate       : 9600 Baud
#PC1373/8          #G  No. of data bits : 8
#PC1374/1          #G  Parity          : None
#PC1375/2          #G  Stop bits       : 2 Bit
#PC1376/0          #G  Data synch.     : RTS/CTS
#PC1378/1          #G  Frame error      : Display
#G-----
#G Centronics Port Parameter
#G-----
#PC1401/1          #G  PnP function    : On
#G-----
#G Ethernet Parameter
#G-----
#PC1501/0          #G  IP Addressassign : DHCP
#PC1502/192.168.001.099 #G *IP address      : 192.168.001.099
#PC1503/255.255.255.000 #G *Net mask        : 255.255.255.000
#PC1504/000.000.000.000 #G *Gateway address : 000.000.000.000
#PC1505/9100       #G  Port address     : 9100
#PC1506/0          #G  Ethernet speed  : Auto negotiation
#PC1513/ALX926_062B9F#G #G DHCP host name   : ALX926_062B9F
#PC1514/avery#G    #G  WLAN SSID       : avery
#PC1515/0          #G  WLAN WEP        : Off
#PC1516/1          #G  WLAN default key : 1
#PC1523/123456789a#G #G  WLAN 64Bit Key 1 : 123456789a
#PC1524/123456789a#G #G  WLAN 64Bit Key 2 : 123456789a
#PC1525/123456789a#G #G  WLAN 64Bit Key 3 : 123456789a
#PC1526/123456789a#G #G  WLAN 64Bit Key 4 : 123456789a
#PC1517/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 1 : 123456789AB-
CD123456789ABCD
#PC1518/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 2 : 123456789AB-
CD123456789ABCD
#PC1519/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 3 : 123456789AB-
CD123456789ABCD
#PC1520/123456789ABCD123456789ABCD#G#G WLAN 128BitKey 4 : 123456789AB-
CD123456789ABCD
#PC1521/0          #G  SNMP Agent      : Off
#PC1522/public#G    #G  SNMP password   : public
#PC1507/1          #G  FTP server      : On
#PC1508/avery#G     #G  FTP Password    : avery
#PC1509/1          #G  WEB server      : On
#PC1510/5          #G  WEB display refr : 5 s
#PC1511/admin#G     #G  WEB admin passw. : admin
#PC1512/supervisor#G #G  WEB supervisor p.: supervisor
#PC1532/operator#G  #G  WEB operator p. : operator

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#PC1529/0          #G Time client      : Off
#PC1530/-2105212662 #G Time server IP   : 130.133.001.010
#PC1531/3600        #G Sync. interval  : 3600 s
#PC1533/0.0         #G Time zone       : +0:00
#G-----
#G Options Parameter
#G-----
#PC3518/0          #G OLV Option       : Off
#PC5207/0          #G RFID Option      : Off
#PC1550/0          #G StandAlone Input : None
#PC5310/0          #G #GVW/I Interface : Easyplug
#G-----
#G Drive Assignment
#G-----
#PC1600/1          #G Drive C          : CompactFlash
#PC1601/2          #G Drive D          : CompactFlash 2
#PC1602/3          #G Drive E          : SD card
#PC1603/4          #G Drive F          : USB stick
#G-----
#G Printer System Menu
#G-----
#PC2002/0          #G Speed unit       : Inch/s
#PC2069/1          #G Cover open error : Immediately
#PC2003/36.4       #G Foil end warning : 36.4 mm
#PC2060/0          #G Foil warn stop   : Off
#PC2006/0          #G w/wo magazine    : with
#PC2007/0          #G Autom. dot check  : Off
#PC2008/10         #G Earliest dottest  : after 10 label
#PC2009/0          #G Latest dotcheck   : after 0 label
#PC2010/0          #G Dottedtestarea from : 0 mm
#PC2011/160        #G Dottedtestarea to  : 160 mm
#PC2012/0          #G Print Interpret.  : Easyplug
#PC2013/9          #G Character sets    : IBM
#PC2014/0          #G Character filter   : Chars >= 20Hex
#PC2015/0          #G Label sens. type  : Punched
#PC2016/0          #G Head-sensor dist  : 0 mm
#PC2017/50         #G Sens. punch-LS    : 50 %
#PC2018/0          #G Ribbon autoecon.  : Off
#PC2019/10.0       #G Ribb. eco. limit  : 10.0 mm
#PC2077/0.0        #G Head down lead    : 0.0 mm
#PC2058/0          #G Feed mode         : Head up
#PC2020/1          #G Turn-on mode      : Online
#PC2022/1          #G Error reprint     : On
#PC2071/0          #G EasyPlug errors   : Tolerant handl.
#PC2023/0          #G Single-job mode    : Off
#PC2024/1257       #G *Head resistance  : 1257 Ohm
#PC2026/20         #G Temp. reduction   : 20 %
#PC2027/0          #G Voltage offset    : 0 %
#PC2028/1          #G Logo expansion    : Yes
#PC2029/2          #G Miss. label tol.  : 2
#PC2067/2          #G Gap detect. mode  : Autom. feed back
#PC2068/0          #G Foil stretching   : Feedback: 0 mm
#PC3306/0          #G Head lift autom.  : Off
#PC2030/1          #G Mat. end detect.  : Transparent
#PC2031/4          #G Periph. device    : Dispenser
#PC2032/2          #G Infeed module     : 2 infeeds
#PC2033/1          #G Singlestartquant  : 1
#PC2042/0          #G External signal    : Off
#PC2043/0          #G Start print mode  : Pulse falling
#PC2044/1          #G Apply key         : On
#PC2045/96         #G Print contrast    : 96 %
#PC2046/512        #G Ram disk size     : 512 KBytes
#PC2047/256        #G Font downl. area  : 256 KBytes
#PC2048/4096       #G Free store size   : 4096 KBytes
#PC2049/0          #G Print info mode   : Par.values right
#PC2050/0          #G Reprint function   : Off
#PC2051/1          #G Language          : English
#PC2063/1          #G Keyboard          : English

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```
#PC2052/0          #G Signal / buzzer : Off
#PC2053/0          #G Access autoriz. : Off
#PC1026/0          #G Material feed : for- / backwards
```

```
#G-----
#G Dispenser Parameter Menu
```

```
#G-----
#PC2001/10.0       #G Head disp dist. : 10.0 mm
#PC1014/0          #G Dispense Mode : Real 1:1 mode
#PC1017/0.0        #G Dispenseposition : 0.0 mm
#PC1019/1          #G Rewind direction : Printing outside
#PC2004/0          #G Display mode : Job rest quant.
#PC2005/143        #G *Dispense counter : 143
#PC2034/0          #G Dispensing mode : fast
#PC2035/1          #G Application mode : Immediate mode
#PC2036/0          #G Appl. waitpos. : 0 mm
#PC2037/10         #G Applicator speed : 10 Inch/s
#PC2039/0          #G Start source : Light barrier
#PC2040/0          #G Dispensing edge : short
#PC2059/80         #G Max InitFeedback : 80 mm
#PC2041/0          #G Transport mode : Dispenser motor
#PC1031/100        #G Forw feed rat. : 100 %
#PC1032/100        #G Backw feed rat. : 100 %
#PC6004/15.0       #G Start offset : 15.0 mm
#PC6014/0          #G Start error stop : Off
#PC6017/0.0        #G Product length : 0.0 mm
#PC6005/0          #G Speed Adaption : Off
#PC6006/0          #G Encoder Type : Single Phase
#PC6008/500        #G Encoder Resol. : 500 pulses/turn
#PC6009/64.0       #G Encoder Diameter : 64.0mm 0.0var
#PC6035/0          #G Multi label mode : Off
#PC6036/20.0       #G Label 2 offset : 20.0 mm
#PC6037/20.0       #G Label 3 offset : 20.0 mm
```

```
#G-----
#G Dispenser Interface
```

```
#G-----
#PC3001/0          #G Interface type : USI interface
#PC3003/0          #G Start print mode : Pulse falling
#PC3004/0          #G End print mode : Mode 0
#PC3005/0          #G Reprint signal : Off
#PC3006/1          #G Ribbon signal : On
#PC3007/0          #G Material signal : Off
#PC2061/0          #G Mat. signal stop : Off
#PC3013/60.0       #G Diam. mat. end : 60.0 mm
#PC3008/0          #G Feed input : Standard
#PC3012/0          #G Pause input : Standard
#PC3009/0          #G Start error stop : Off
#PC3010/1          #G Internal inputs : On
#PC3011/0          #G Apply mode : After start sig.
#PC3014/0          #G USI profile : Default
#PC3015/1          #G Warning signal : Level high activ
```

```
#G-----
#G Applicator Parameter Menu (AI Board)
```

```
#G-----
#PC3101/4          #G Applicator type : ASA
#PC3102/1          #G Apply mode : After print
#PC3110/2          #G Start print mode : Pulse rising
#PC3118/0          #G TouchDown Sensor : Pulse falling
#PC3114/0          #G Label verify : Off
#PC3116/1          #G Lab release time : 1 ms
#PC3106/500        #G Dwell time : 500 ms
#PC3107/196        #G Blow on time : 196 ms
#PC3108/0          #G Restart delay : 0 ms
#PC3115/80         #G Stop lag time : 80 ms
#PC3109/750        #G Position timeout : 750 ms
#PC3117/99         #G TouchDownTimeout : Off
#PC3111/0          #G Apply comp. time : 0 ms
```

```
#G-----
#G I/O Board Parameter Menu
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G-----
#PC3203/0          #G Start print mode : Pulse falling
#PC3204/0          #G Reprint signal : Off
#PC3205/0          #G Feed input : Off
#PC3206/0          #G Pause input : Off
#PC3207/0          #G Error output : Printer error
#PC3208/0          #G Error polarity : Level low active
#PC3209/1          #G Status output : Low ribbon warn.
#PC3210/0          #G Status polarity : Level low active
#PC3211/0          #G End print mode : Mode0 inactive
#G-----
#G OLV Parameter Menu
#G-----
#PC3501/0          #G Verify mode : All barcodes
#PC3502/0          #G Cancel. printing : Off
#PC3503/0          #G Reprint quantity : 0
#PC3504/1          #G OLV mode : fast
#PC3505/0          #G Ref Decode : No test
#PC3506/-1         #G Decodability : -1
#PC3507/-1         #G Modulation : -1
#PC3508/-1         #G Defects : -1
#PC3509/-1         #G Edge Contrast : -1
#PC3510/-1         #G Rmin/Rmax : -1
#PC3511/-1         #G Symbol Contrast : -1
#PC3512/-1         #G PCS : -1
#PC3513/-1         #G R (white) : -1
#PC3514/-1         #G R (black) : -1
#PC3515/-1         #G Ratio : -1
#PC3516/-1         #G ANSI Symb. Grade : -1
#PC3517/10         #G Dist. head-beam : 10 mm
#G-----
#G LTSI Applicator Parameter Menu
#G-----
#PC3152/0          #G Apply mode : After start sig.
#PC3153/190        #G Stroke length : 190 mm
#PC3154/0          #G Appl. waitpos. : 0 mm
#PC3155/350.0      #G Applicator speed : 350 mm/s
#PC3158/0          #G Restart delay : 0 ms
#G-----
#G ZPL Parameter Menu
#G-----
#PC4002/15         #G Darkness : 15
#PC4003/126        #G Control Prefix : 7EH
#PC4004/94         #G Format Prefix : 5EH
#PC4005/44         #G Delimiter Char : 2CH
#PC4006/0          #G Label Top : 0 Dots
#PC4007/0          #G Left Position : 0 Dots
#PC4009/0          #G Resolution : 300 DPI
#PC4010/0          #G Error Indication : OFF
#PC4011/0          #G Error Checking : YES
#PC4012/0          #G 305 DPI Scaling : YES
#PC4013/0          #G Image Save Path : Internal RAM
#PC4014/1          #G Command ^PR : Enable
#PC4015/1          #G Command ^MT : Enable
#PC4017/0          #G Label Invert : Disable
#PC4016/1          #G Command ^JM : Enable
#PC4018/1          #G Command ^MD/~SD : Enable
#G-----
#G RFID Parameter Menu
#G-----
#PC5208/10         #G Power level : [10]
#PC5201/10         #G Try Times : 10
#PC2055/3          #G Max Tags to stop : 3
#PC2056/1          #G Nr CMD retries : 1
#PC5204/0          #G Chip Protection : Off
#PC5206/6.0        #G Chip Size : 6.0 mm
#PC5205/20.0       #G Chip Offset : 20.0 mm
#G-----

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

#G Printer Special Menue

```
#G-----
#PC5001/3          #G *Printer type      : ALX 92x LH
#PC5002/2          #G *Printhead type   : KCE 6Inch
#PC5003/0          #G  Disp. Head Offs. : No
#PC5004/0          #G  Command sequence : '#G'
#PC5006/0          #G *Sensor type      : Standard
#PC5005/0          #G  EasyPl. file log : Off
#PC5129/0          #G  Flash Res. Area  : 0 KBytes
#G-----
```

#G Printer Service Menu

```
#G-----
#PC5110/0          #G *Head step tune   : 0 step(s)
#PC5111/0          #G  Spec parameter 1 : 0
#PC5112/0          #G  Spec parameter 2 : 0
#PC5113/0          #G  EasyPlug Monitor : Off
#PC5125/0          #G  EP Monitor Mode  : Interpreter data
#PC5115/18         #G *Matend adjust    : 18
#PC5116/67         #G *Punch adjust     : 67
#PC5117/95         #G *Reflex adjust    : 95
#PC5118/155        #G *Fullsize adjust  : 155
#PC5130/255        #G *Aux adjust       : 255
#PC5101/35         #G  Matend tolerance : 35 mm
#PC5102/0.0        #G  Feed adjust      : 0.0% [ribbon]
#PC5105/0.0        #G  Feed adjust      : 0.0% [direct]
#PC5103/0.0        #G  Foil feed adjust : 0.0 %
#PC5104/0.0        #G *Punch y calibr.  : 0.0 mm
#PC5132/0          #G  Rew.Sens.Connect : At stepperdriver
#PC5123/31791      #G *Rewinder adjust  : 31791
#G-----
```

#G DHCP Addresses

```
#G-----
#G readonly ID=30001 #G  IP address       : 000.000.000.000
#G readonly ID=30002 #G  Net mask         : 000.000.000.000
#G readonly ID=30003 #G  Gateway address  : 000.000.000.000
#G-----
```

#G Module Firmware Versions

```
#G-----
#G readonly ID=30004 #G  System version   : V6.T9130
#G readonly ID=30067 #G  System revision  : 9130
#G readonly ID=30070 #G  System date      : Sep 10 2015
#G readonly ID=30061 #G  Bootloader       : V3.78
#G readonly ID=30062 #G  uMon             : V2.6 31Aug2006
#G readonly ID=30076 #G  Model-ID         : ALX 926
#G readonly ID=30077 #G  Printer-Model    : ALX 92x
#G readonly ID=30078 #G  Printhead        : 6
#G readonly ID=30079 #G  Printhead dpi     : 305
#G readonly ID=30080 #G  Printhead Dot/mm  : 12.000000
#G readonly ID=30081 #G  storage medias    : RAM,SD
#G readonly ID=30049 #G  Feed driver       : V 3 - T 3
#G readonly ID=30050 #G  Foil driver       : V 3 - T 3
#G readonly ID=30051 #G  Head driver       : V 3 - T 3
#G readonly ID=30056 #G  Rewinder driver  : V 4 - T 36
#G-----
```

#G Operational Data

```
#G-----
#G readonly ID=30014 #G  Serv. operations : 0
#G readonly ID=30015 #G  Head number      : 1
#G readonly ID=30016 #G  Roll number      : 1
#G readonly ID=30018 #G  Head run length  : 115613 m
#G readonly ID=30019 #G  Roll run length  : 282973 m
#G readonly ID=30021 #G  Tot. mat. length  : 282973 m
#G readonly ID=30022 #G  Tot. foil length  : 37633 m
#G readonly ID=30025 #G  Head strobes     : 3162058982
#G readonly ID=30071 #G  Head temperature : 22 °C
#G readonly ID=30026 #G  Foil diameter    : 81.3 mm
#G readonly ID=30027 #G  Dispensing cycl. : 1764387
#G readonly ID=30028 #G  Operation time   : 0 hours 1 min
```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30082 #G Total Operation : 0 hours 39 min
#G-----
#G Power supply data
#G-----
#G readonly ID=30029 #G Type : HME PSupply 450
#G readonly ID=30030 #G Version : H1.07 Fl.33
#G readonly ID=30031 #G Serial number : 06300019
#G readonly ID=30072 #G PS Temperature : 23 °C
#G readonly ID=30032 #G Standby+On time : 575 hours 0 min
#G readonly ID=30033 #G On time : 566 hours 30 min
#G readonly ID=30200 #G PS Reg. 0x000 : 82 00 00 17 00 FF 0F FF 00 05
75 00 00 05 75 00
#G readonly ID=30201 #G PS Reg. 0x010 : 00 05 66 30 00 05 75 00 70 74
00 04 04 04 00 00
#G readonly ID=30202 #G PS Reg. 0x020 : 3F 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30203 #G PS Reg. 0x030 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 0B
#G readonly ID=30204 #G PS Reg. 0x040 : 10 CC 20 01 07 06 30 00 19 00
00 00 00 00 00 00
#G readonly ID=30205 #G PS Reg. 0x050 : 7D 78 8C 23 50 0A 14 4B DA 73
00 00 00 00 00 00
#G readonly ID=30206 #G PS Reg. 0x060 : 0A 46 32 32 64 6E 00 00 4B 64
19 19 FA 00 00 00
#G readonly ID=30207 #G PS Reg. 0x070 : 00 05 66 30 00 05 75 00 00 05
66 30 00 05 75 00
#G readonly ID=30208 #G PS Reg. 0x080 : 48 4D 45 20 50 53 75 70 70 6C
79 20 34 35 30 20
#G readonly ID=30209 #G PS Reg. 0x090 : 01 33 00 00 00 00 00 00 8C A0
50 64 03 00 00 00
#G readonly ID=30210 #G PS Reg. 0x0A0 : C0 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30211 #G PS Reg. 0x0B0 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30212 #G PS Reg. 0x0C0 : 10 00 00 01 01 00 00 00 01 00
00 00 00 00 00 00
#G readonly ID=30213 #G PS Reg. 0x0D0 : 80 78 8C 23 50 0A 14 4B DA 73
00 00 00 00 00 00
#G readonly ID=30214 #G PS Reg. 0x0E0 : 0A 46 32 32 64 6E 00 00 4B 64
19 19 FA 00 00 00
#G readonly ID=30215 #G PS Reg. 0x0F0 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30216 #G PS Reg. 0x100 : 02 00 00 17 00 FF 0F FF 00 05
75 00 00 05 75 00
#G readonly ID=30217 #G PS Reg. 0x110 : 00 05 66 30 00 05 75 00 70 74
00 04 04 04 00 00
#G readonly ID=30218 #G PS Reg. 0x120 : 3F D1 00 00 00 00 00 00 00 00
00 00 00 00 00 00
#G readonly ID=30219 #G PS Reg. 0x130 : 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 16
#G readonly ID=30220 #G PS Reg. 0x140 : 10 CC 20 01 07 06 30 00 19 00
00 00 00 00 00 00
#G readonly ID=30221 #G PS Reg. 0x150 : 7D 78 8C 23 50 0A 14 4B DA 73
00 00 00 00 00 00
#G readonly ID=30222 #G PS Reg. 0x160 : 0A 46 32 32 64 6E 00 00 4B 64
19 19 FA 00 00 00
#G readonly ID=30223 #G PS Reg. 0x170 : 00 05 66 30 00 05 75 00 00 05
66 30 00 05 75 00
#G-----
#G CPU board data
#G-----
#G readonly ID=30034 #G CPU identifier : 2-4
#G readonly ID=30036 #G PCB Revision : REV02
#G readonly ID=30037 #G FPGA version : C403
#G readonly ID=30039 #G MAC Address : 000A.44.05.01.BB
#G readonly ID=30040 #G Serial number : A662003063000738
#G readonly ID=30041 #G Production date : 01.08.2006
#G readonly ID=30042 #G PCB part number : A6619-02

```

AP 4.4 – AP 5.4 – AP 5.6 – AP 7.t – 64-xx – DPM – PEM – ALX 92x

```

#G readonly ID=30043 #G Board part numb. : A6621-01
#G readonly ID=30044 #G Manufacturer : Multitech Sys
#G readonly ID=30045 #G Work place : FCT Dolphin
#G readonly ID=30046 #G Company name : Multitech Sys
#G-----
#G Display board data
#G-----
#G readonly ID=30059 #G Display Version : V3.10
#G readonly ID=30068 #G Display serialNr : A662603S10040015
#G-----
#G Internal Memory Configuration
#G-----
#G readonly ID=30007 #G RAM memory size : 64 MB
#G readonly ID=30008 #G Flash mem size : 4 MB AMD
#G readonly ID=30064 #G SD card : 7.50GB/8GB (e:)
#G readonly ID=30010 #G Space for Jobs : 47.8 MB
#G readonly ID=30011 #G Max. Labellength : 7619 mm
#G readonly ID=30013 #G Custom defaults : No
#G-----
#G Statistics
#G-----
#G readonly ID=30100 #G Nr of Tags :
#G readonly ID=30101 #G Nr. invalid tags :
#G readonly ID=30110 #G Scrap rate : 100.0 %
#G readonly ID=30102 #G Total Nr. SELECT :
#G readonly ID=30103 #G Invalid SELECT :
#G readonly ID=30104 #G Total Nr. READ :
#G readonly ID=30105 #G Invalid READ :
#G readonly ID=30106 #G Total Nr. WRITES :
#G readonly ID=30107 #G Invalid WRITE :
#G readonly ID=30108 #G Rate READ :
#G readonly ID=30109 #G Rate WRITE :
#G-----
#G Printer Debug Menu
#G-----
#PC5127/0 #G Debug interface : Off
#PC5124/0 #G Debug mask : 0
#PC5128/-1872945986 #G Debug IP address : 144.093.028.190
#PC5404/0 #G Fields : Off
#PC5400/0 #G Label generation : Off
#PC5401/0 #G Print handling : Off
#PC5402/0 #G Variables : Off
#PC5408/0 #G OLV data : Off
#PC5403/0 #G Pctrl communica. : Off
#PC5406/0 #G RFID-Reader : Off
#PC5407/0 #G RFID-Task : Off
#PC5131/1 #G BitimageFileDump : Easyplug select
#PC5405/0 #G Debug Shell : Off
#PC5409/0 #G Text Seg.Observ. : Off
#G-----
#G Execute system restart ( 298 parameters )
#G-----
#PC999999/-1#G

```



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General Information

Important setting instructions

Starting in offline mode, you get to the parameter menu by pressing the prog button. There you can set/alter the different parameters of the printer and activate/deactivate options.

Many Parameters provide a range within the setting can be changed with a standard step width. By this step width, the setting is changed, if the Cut-(Apply-) or Feed button is pressed once.

➡ The step width can be increased ten times, if the Online button is pressed simultaneously (Cut+Online or Feed+Online).

➡ Wait at least 10 seconds between switching the device off and on again, otherwise any modified parameter settings are not saved.

➡ With some parameters, false settings can result in the device being damaged (e. g. if the print head temperature is too high). Data and/or print orders are also deleted during formatting and with other settings.

➡ Pay attention to the corresponding notes in the following description to ensure that no damage occurs!



Area of application

The description counts for all devices listed in the headline of this document. All status printouts and parameters are described in the same order as they *may appear* in the parameter menu of the respective printer.

➡ Not all of the parameters appear in each of the listed printers!

At the beginning of each parameter description can be found information about the availability of the parameter:

64-xx	ALX 92x	DPM
➡ ALX 92x/DPM: Only with installed USI board.		

Fig. 1: At the beginning of each parameter description, the availability of the parameter is specified: Between the two lines is a list of the concerned printer types; the remark below (arrow) quotes further conditions.

If a parameter appears in the menu of a certain printer type or not, depends on the following, which can be read from this bar:

- The *printer type*:
Printers, which have the parameter available in the parameter menu, are listed between the lines. Example (see fig. 1): 64-xx, ALX 92x, ALX 73x (PMA), DPM.
- The configuration with *options* and/or certain *parameter settings*:
Example (see fig. 1): The parameter only appears in the menu of an ALX 92x or DPM, if the device is equipped with an USI board. If the remark is not assigned to a special printer type, it is valid for all listed printers.

Firmware

This description applies to all printers which are equipped with the following firmware version:

6.75-SR2

- The paragraph „Overview Parameter Menues“ in this topic section contains an overview of all available parameters of the respective printer.

Operating the parameter menu

The illustrations on the following pages clarify the operating principle of the parameter menu. The return path shown on the left of the screen, called up using the Prog. button, also applies for parameters in the middle of the screen.

Setting values

The setting of a parameter always follows this scheme:

1. Select the parameter.
2. Press the Online button.
3. Set the parameter to the intended value by pressing the Cut or Feed button.
4. Confirm by pressing the Online button.

Example

Setting the parameter `PRINT PARAMETERS > Material type` to punched material.

1. Press prog button.

OFFLINE 0 JOBS

Initial state: off-line mode

2. Press prog button.

PRINT INFO

3. Press cut button.

PRINT PARAMETERS

4. Press online button.

PRINT PARAMETERS
Print speed

First parameter in the `PRINT PARAMETERS` menu.

5. Press cut button repeatedly, until the following is displayed:

Material type
Endless

6. Press feed button.

Material type
Punched

Setting the parameter to the intended value by pressing the Cut or Feed button.

7. Press online button.

PRINT PARAMETERS
Material type

Confirm with Online button.

8. Press prog button 2x.

OFFLINE 0 JOBS

"Way back" by pressing the Prog button.

Fig. 1: Guideline through the parameter menu. Start into it by pressing the Prog button in off-line mode.

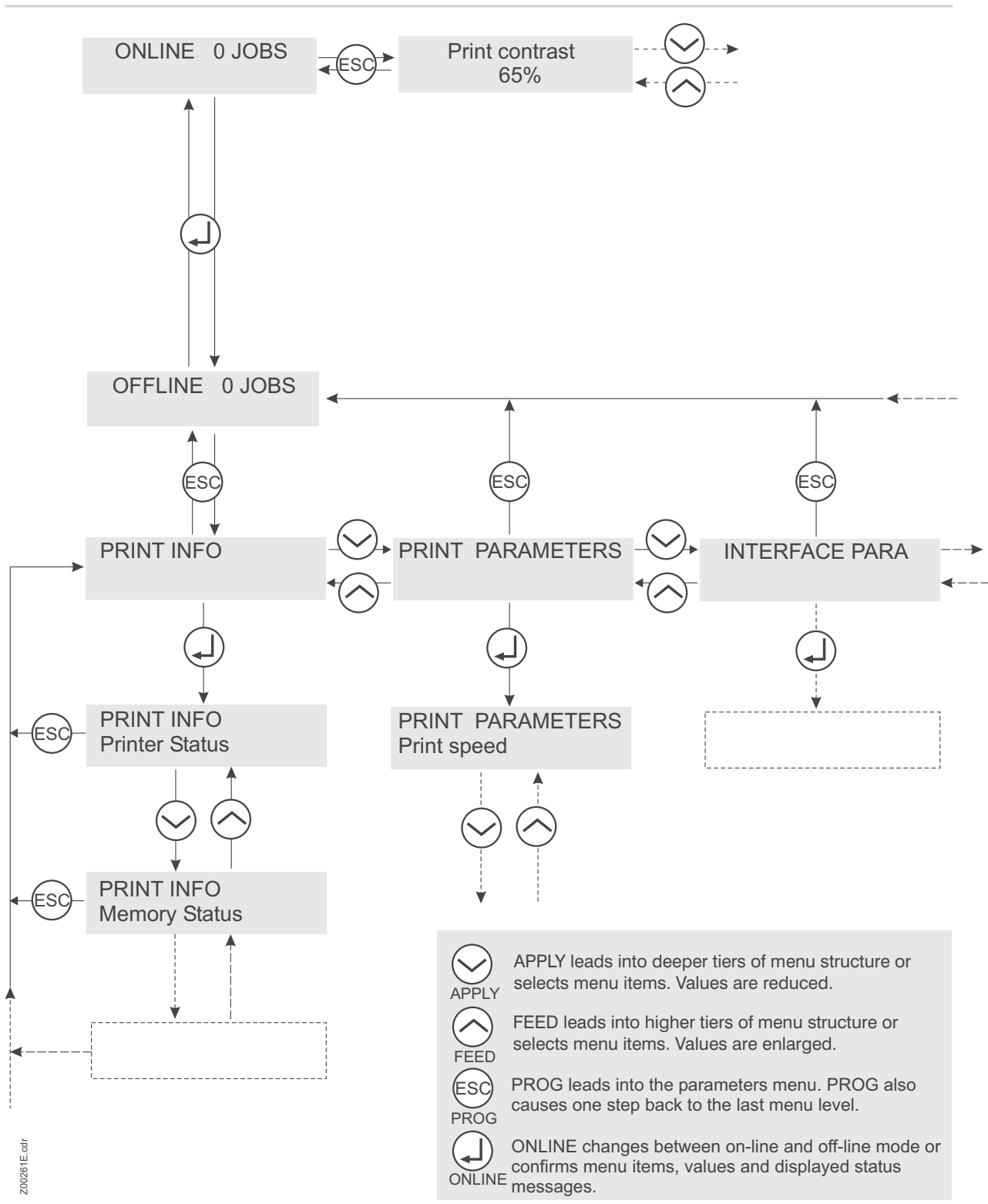
Parameter Menu DPM/PEM/ALX

Fig. 2: Functional diagram of the DPM/PEM/ALX parameter menu. You get into the menu by pressing the Prog key in Offline-Mode.

Overview Parameter Menus

Understanding the Parameter Overviews

The charts in the following show all of the parameters implemented in the printer firmware. Some parameters are only visible in the parameter menu under specific preconditions. These parameters are provided with a gray background and a digit at the right column edge. The digit refers to a footnote describing the precondition under which the parameter is visible.

PRINT INFO	PRINT PARAMETERS	INTERFACE PARA	(Interf. Para. continued)	(Interf. Para. continued)	SYSTEM PARAMETER
Printer status	Print speed	> EASYPLUGINTERPR	Parity	WLAN SSID 31	Foil end warning
Memory status	Feed speed	Print interface	Stop bits	WLAN WEP 31	Cover open error
Font status	Material type	Spooler mode	Data synch.	WLAN default key 31	Foil warn stop
Flashdata status 9	Material length	Printer ID No.	Frame error	WLAN 64Bit key 1 31	Disp. Cnt. Reset 14
Service status	Material width	Spooler size		WLAN 64Bit key 2 31	Autom. dot check
Dottest endless	Print direction	Offline mode	> CENTRONICS	WLAN 64Bit key 3 31	Early dottest 15
Dottest punched	Punch offset	Interface delay	PnP function	WLAN 64Bit key 4 31	Latest dottest 15
Reference label	Bar code Multip.			WLAN 128Bit key 1 31	Dottestarea from 15
RFID status 22	Tradit. imaging 13	> COM1 PORT	> NETWORK PARAM.	WLAN 128Bit key 2 31	Dottestarea to 15
	UPC plain-copy	Baud rate	IP Addressassign	WLAN 128Bit key 3 31	Print Interpret.
	EAN Readline	No. of data bits	IP Address	WLAN 128Bit key 4 31	Character sets
	EAN sep. lines	Parity	Net mask	WLAN com quality 31	Character filter
	Rotated Barcodes	Stop bits	Gateway address	WLAN signal lev. 31	Light sens. type
	Dispensposition 14	Data synch.	Ethernet speed		Head-sensor dist 13
	Cut mode 6	Frame error	Port address	> OPTIONS	Ribbon autoecon.
	Cut speed 6		MAC address	OLV option	Ribb. eco. limit 2
	Cut position 6	> COM2 PORT 11	FTP server	RFID option	Head down lead 13/2
	Double cut 6	Baud rate 11	FTP password 13	StandAlone Input	Feed mode
	Rest position 6	No. of data bits 11	WEB server	#VW/I Interface	Turn-on mode
	Cut width 6	Parity 11	WEB display refr. 28		Error reprint
	Rewind direction 5	Stop bits 11	WEB admin passw. 13	> DRIVEASSIGNMENT	EasyPlug errors
	X – print offset	Data synch. 11	WEB supervisor p. 13	Drive C	Single job mode
	Y – print offset	Serial Port Mode 11	WEB operator p. 13	Drive D	Head resistance 13
	Punch mode	Frame error 11	Time client	Drive E 40	Temp. reduction
	Punch level 12		Time server IP 32	Drive F	Voltage offset
		> COM4 PORT	Sync. interval 32		Expand Logo 3
		Baud rate	Time zone 32		Miss. label tol.
		No. of data bits	DHCP host name		Gap detect. mode

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

(System Param. continued)

Foil stretching	21
Mat. end detect.	
Periph. device	
Singlestartquant	
Head disp dist	20
External signal	
Start print mode	
Apply key	13
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print Info Mode	
Reprint function	
Language	
Keyboard	
Signal / buzzer	
Access authoriz.	
Realtime clock	
Ribbon pre Start	13

DISPENSER PARA 14

Dispense mode	14
Dispenseposition	14
Display mode	14
Dispense counter	14
Dispensing mode	14
Application mode	14
Start source	14
Dispensing edge	14
Max InitFeedback	14
Transport mode	14
Start offset	14
Start error stop	14
Product length	14
Forw feed rat.	14/35
Backw feed rat.	14/35

I/O BOARD PARA 11

Start delay	11
Reprint Signal	11
Feed input	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

OLV PARAMETERS 26

Verify mode	26
Cancel. printing	26
Reprint quantity	26
OLV mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26

DP INTERFACE 7

Interface type	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Apply mode	7/19
USI profile	7
Warning signal	7

ZPL PARAMETERS 10

Version	10
Darkness	10
Control Prefix	10
Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
Manual Calibrate	10
Resolution	10
Error Indication	10
Error Checking	10
305 DPI Scaling	10
Image Save Path	10
Command ^PR	10
Command ^MT	10
Label Invert	10
Command ^JM	10

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

SPECIAL FUNCTION	SERVICE FUNCTION	(Service Funct. continued)	SERVICE DATA	(Service Data cont.)	(Service Data cont.)
Printertype 13	Service 13	Rewinder setup 5	> MODULE FW VERS.	Head temperature	> DISPLAY DATA
Printhead type 13	Head exchange 13	Rewinder values 5	System version	Foil diameter	Display version
Disp. Head Offs. 1/13	Roller exchange 13		System revision	Dispensing cycl.	Display SerialNr
Command Sequence 13	Cutter exchange 13/6		System date	Operation time	Remote disp. vers. 24
Delete job	Serv. data reset 13		Bootloader		Remote disp. # 24
Delete spooler	Head dot test		uMon	> POWERSUPPLYDATA	
Factory settings	Head step tune 13		Feed driver	Type	> MEMORY DATA
Custom defaults 13	EasyPlug monitor 13		Foil driver	PS temperature	Ram memory size
Store Parameters	EP Monitor Mode 13		Head driver	Version 29	Flash mem size
Store Diagnosis	Head adjust		Peripheraldriver 29	Serial number 29	CompactFlash 30
Gen.Support Data	Sensor adjust 13		Rewinder 29	Operation time 29	SD card 30
EasyPI. file log 30	Sensor test		USI interface 29	Total on time 29	USB 30
Log files delete 30	Cutter test		Dispenser lift 29		Space for Jobs
Data blocks del. 9	Matend tolerance		Dispenser feed 29	> CPU BOARD DATA	Max. Labellength
RFID stat. del. 22	Feedadjust label			CPU identifier	Default values
	Feed adjust		> OPERATION DATA	PCB revision	
	Foil feed adjust 13		Serv. operations	FPGA version	
	Punch Y calibr. 13		Headnumber	MAC address	
	PS registers 4/13		Roll number	Serial number	
	Scanner test		Cutter number 6	Production date	
	Memory card test		Head run length	PCB part number	
	Send test		Roll run length	Board part numb.	
	Receive test		Cuts on knife 6	Manufacturer 13	
	Com2 comun. test 11		Tot. mat. length	Work place 13	
	Com2 port test 11		Tot. foil length	Company name 13	
	Headvo. adj. 20 V 13/17		Total cuts 6		
	Headvo. adj. 28 V 13/17		Total head moves		
	Print test		Head strobes		

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

PRINT PARAMETERS	SYSTEM PARAMETER	DISPENSER PARA 14	SPECIAL FUNCTION	SERVICE FUNCTION	SERVICE DATA
Print speed	Light sens. type	Dispenseposition 14	Delete job	Head dot test	> MODULE FW VERS.
Feed speed	Ribbon autoecon.	Start offset 14	Delete spooler	Matend tolerance	System version
Material type	Ribbon eco. limit		Store Parameters		System revision
Material length	Print contrast		Store Diagnosis		System date
Material width					Bootloader
Print direction					uMon
Cut speed 6					Feed driver
Cut position 6					Foil driver
Double cut 6					Head driver
Rewind direction 5					Peripheraldriver 29
X – print offset					Rewinder 29
Y – print offset					USI interface 29
					Dispenser lift 29
					Dispenser feed 29
					> OPERATION DATA
					Serv. operations
					Headnumber
					Roll number
					Cutter number 6
					Head run length
					Roll run length
					Cuts on knife 6
					Tot. mat. length
					Tot. foil length
					Total cuts 6
					Total head moves
					Head strobes

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

(Service Data cont.)

Head temperature
Foil diameter
Dispensing cycl.
Operation time

> POWERSUPPLYDATA

Type
PS temperature
Version 29
Serial number 29
Operation time 29
Total on time 29

> CPU BOARD DATA

CPU identifier
PCB revision
FPGA version
MAC address
Serial number
Production date
PCB part number
Board part numb.
Manufacturer 13
Work place 13
Company name 13

(Service Data cont.)

> DISPLAY DATA

Display version
Display SerialNr
Remote disp. vers. 24
Remote disp. # 24

> MEMORY DATA

Ram memory size
Flash mem size
CompactFlash 30
SD card 30
USB 30
Space for Jobs
Max. Labellength
Default values

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

PRINT INFO	PRINT PARAMETERS	INTERFACE PARA	(INTERFACE PARA cont.)	(INTERFACE PARA cont.)	SYSTEM PARAMETER
Printer status	Print speed	> EASYPLUGINTERPR	Parity	WLAN WEP 31	Speed unit
Memory status	Feed speed	Print interface	Data synchron.	WLAN default key 31	Cover open error
Font status	Material type	Spooler mode	Stop bits	WLAN 64Bit key 1 31	Foil end warning
Flashdata status 9	Material length	Printer ID No.	Frame error	WLAN 64Bit key 2 31	Foil warn stop
Service status	Material width	Spooler size		WLAN 64Bit key 3 31	Disp. Cnt. Reset 34
Dottest endless	Print direction	Offline mode	> CENTRONICS	WLAN 64Bit key 4 31	Autom. dot check
Dottest punched	Punch offset	Interface delay	PnP function	WLAN 128Bit key 1 31	Early dottest 15
Reference label	Bar code Multip.			WLAN 128Bit key 2 31	Latest dottest 15
RFID status 22	Tradit. imaging 13	> COM1 PORT	> NETWORK PARAM.	WLAN 128Bit key 3 31	Dottestarea from 15
	UPC plain-copy	Baud rate	IP Addressassign	WLAN 128Bit key 4 31	Dottestarea to 15
	EAN Readline	No. of data bits	IP Address	WLAN com quality 31	Print Interpret.
	EAN sep. lines	Parity	Net mask	WLAN signal lev. 31	Character sets
	Rotated Barcodes	Stop bits	Gateway address		Character filter
	Dispense Mode 33	Data synchron.	Port address	> OPTIONEN	Light sens. type
	Dispensposition 33	Frame error	Ethernet speed	OLV option	Head-sensor dist. 13
	X – print offset		MAC address	RFID option 18	Ribbon autoecon.
	Y – print offset	> COM2 PORT 11	FTP server	StandAlone Input	Ribb. eco. limit 2
	Punch mode	Baud rate 11	FTP password 13	#VW/I Interface	Head down lead 13/2
	Punch level 12	No. of data bits 11	WEB server		Feed mode
		Parity 11	WEB admin passw. 13	> DRIVEASSIGNMENT	Turn-on mode
		Stop bits 11	WEB supervisor p. 13	Drive C	Error reprint
		Data synchron. 11	WEB operator p. 13	Drive D	EasyPlug errors
		Serial Port Mode 11	Time client	Drive E 40	Single job mode
		Frame error 11	Time server IP 32	Drive F	Head resistance 13
			Sync. interval 32		Temp. reduction
		> COM4 PORT	Time zone 32		Voltage offset
		Baud rate	DHCP host name		Expand Logo 3
		No. of data bits	WLAN SSID 31		Miss. label tol.

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

(System Param. cont.)

Gap detect. mode	
Foil stretching	13
Head lift autom.	39
Mat. end detect.	
Periph. device	13*
Singlestartquant	
Dispensing Mode	33
Application mode	33
External signal	
Start print mode	
Apply key	13
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print info mode	
Reprint function	
Language	
Keyboard	
Signal / buzzer	
Access authoriz.	
Realtime clock	
Material feed	
Ribbon pre Start	13
Speed Adaption	**
Encoder Type	36**
Encoder Resol.	36**
Encoder Diameter	36**

DISPENSER PARA	34
Head disp dist.	34
Dispense mode	34
Dispenseposition	34
Display mode	34
Dispense counter	34
Dispensing mode	34
Application mode	34
Max InitFeedback	34
Start offset	34
Start error stop	34
Product length	34
Speed Adaption	34
Encoder Type	34/36
Encoder Resol.	34/36
Encoder Diameter	34/36
Multi label mode	
Label 2 offset	34/37
Label 3 offset	34/38

*) Only visible with ALX 92x/DPM

**) Only visible with PEM

APPLICATOR PARA	25
Applicator type	25
Application mode	25
Start print mode	25
Dwell time	25/27
Blow on time	25/28
Restart delay	25
Apply comp. time	25/27
Position timeout	25/33
Lab release time	25/27
Touch down sens.	25/27
TouchDownTimeout	25/27

OLV PARAMETERS	26
Verify mode	26
Cancel. printing	26
Reprint quantity	26
OLV mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26

DP INTERFACE	7
Interface type	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Apply mode	19
USI profile	26
Warning signal	7

ZPL PARAMETERS	10
Version	10
Darkness	10
Control Prefix	10
Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
Manual Calibrate	10
Resolution	10
Error Indication	10
Error Checking	10
305 DPI Scaling	10
Image Save Path	10
Command ^PR	10
Command ^MT	10
Label Invert	10
Command ^JM	10

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

I/O BOARD PARA	11
Start print mode	11
Reprint Signal	11
Feed	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

SPECIAL FUNCTION	
Printer type	13
Printhead type	13
Command Sequence	13
Delete job	
Delete spooler	
Factory settings	
Custom defaults	13
Store Parameters	
Store Diagnosis	
Gen.Support Data	
EasyPl. file log	30
Log files delete	30
Data blocks del.	9
RFID stat. del.	22

SERVICE FUNCTION	
Service	13
Head exchange	13
Roller exchange	13
Serv. data reset	13
Head dot test	
Head step tune	13
EasyPlug monitor	13
EP Monitor Mode	13
Head adjust	
Sensor adjust	13
Sensor test	
Cutter test	
Matend tolerance	
Feedadjust label	
Feed adjust	
Foil feed adjust	13
Punch Y calibr.	13
PS register	13
Scanner test	
Memory card test	
Send test	
Receive test	
Com2 comun. test	13
Com2 port test	13
Rewinder setup	
Rewinder values	
Print test	

SERVICE DATA	
> MODULE FW VERS.	
System version	
System revision	
System date	
Bootloader	
uMon	
Feed driver	
Foil driver	
Head driver	
Rewinder	29
USI interface	29
Applicator int.	29
> OPERATION DATA	
Serv. operations	
Headnumber	
Roll number	
Head run length	
Roll run length	
Tot. mat. length	
Tot. foil length	
Total head moves	
Head strobes	
Head temperature	
Foil diameter	
Dispensing cycl.	
Operation time	

(Service Data cont.)

> POWERSUPPLYDATA	
Type	
Version	29
Serial number	29
PS temperature	
Operation time	29
Total on time	29
> CPU BOARD DATA	
CPU identifier	
PCB revision	
FPGA version	
MAC address	
Serial number	
Production date	
PCB part number	
Board part numb.	
Manufacturer	13
Work place	13
Company name	13

> DISPLAY DATA

Display version	
Display serialnr	
Remote disp. vers.	24
Remote disp. #	24

(Service Data cont.)

> MEMORY DATA	
Ram memory size	
Flash mem size	
CompactFlash	30
SD card	30
USB	30
Space for Jobs	
Max. Labellength	
Default values	

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

PRINT PARAMETERS	SYSTEM PARAMETER	DISPENSER PARA 34	APPLICATOR PARA 25	SPECIAL FUNCTION	SERVICE FUNCTION
Print speed	Light sens. type	Dispenseposition 34	Dwell time 25/27	Delete job	Head dot test
Feed speed	Ribbon autoecon.	Start offset 34	Blow on time 25/27	Delete spooler	Matend tolerance
Material type	Ribbon eco. limit		Restart delay 25	Store Parameters	
Material length	Print contrast		Position timeout 25/27	Store Diagnosis	
Material width					
Print direction					
X – print offset					
Y – print offset					

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

SERVICE DATA	(Service Data cont.)	(Service Data cont.)
> MODULE FW VERS.	> POWERSUPPLYDATA	> MEMORY DATA
System version	Type	Ram memory size
System revision	Version 29	Flash mem size
System date	Serial number 29	CompactFlash 30
Bootloader	PS temperature	SD card 30
uMon	Operation time 29	USB 30
Feed driver	Total on time 29	Space for Jobs
Foil driver		Max. Labellength
Head driver	> CPU BOARD DATA	Default values
Rewinder 29	CPU identifier	
USI interface 29	Syst. controller	
Applicator int. 29	PCB revision	
	MAC address	
> OPERATION DATA	Serial number	
Serv. operations	Production date	
Headnumber	PCB part number	
Roll number	Board part numb.	
Head run length	Manufacturer 13	
Roll run length	Work place 13	
Tot. mat. length	Company name 13	
Tot. foil length		
Total head moves	> DISPLAY DATA	
Head strobes	Display version	
Head temperature	Display serialnr	
Foil diameter	Remote disp. vers. 24	
Dispensing cycl.	Remote disp. # 24	
Operation time		

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

PRINT INFO	PRINT PARAMETERS	INTERFACE PARA	(INTERFACE PARA cont.)	(INTERFACE PARA cont.)	SYSTEM PARAMETER
Printer status	Print speed	> EASYPLUGINTERPR	Parity	WLAN default key 31	Cover open error
Memory status	Feed speed	Print interface	Data synchron.	WLAN 64Bit key 1 31	Foil end warning
Font status	Material type	Spooler mode	Stop bits	WLAN 64Bit key 2 31	Foil warn stop
Flashdata status 9	Material length	Printer ID No.	Frame error	WLAN 64Bit key 3 31	Autom. dot check
Service status	Material width	Spooler size		WLAN 64Bit key 4 31	Early dottest 15
Dottest endless	Print direction	Offline mode	> CENTRONICS	WLAN 128Bit key 1 31	Latest dottest 15
Dottest punched	Punch offset	Interface delay	PnP function	WLAN 128Bit key 2 31	Dottestarea from 15
Reference label	Bar code Multip.			WLAN 128Bit key 3 31	Dottestarea to 15
	Tradit. imaging 13	> COM1 PORT	> NETWORK PARAM.	WLAN 128Bit key 4 31	Print Interpret.
	UPC plain-copy	Baud rate	IP Addressassign	WLAN com quality 31	Character sets
	EAN Readline	No. of data bits	IP Address	WLAN signal lev. 31	Character filter
	EAN sep. lines	Parity	Net mask		Light sens. type
	Rotated Barcodes	Stop bits	Gateway address	> OPTIONEN	Head-sensor dist. 13
	X – print offset	Data synchron.	Port address	OLV option	Ribbon autoecon.
	Y – print offset	Frame error	Ethernet speed	RFID option 18	Ribbon eco. limit
	Punch mode		MAC address	StandAlone Input	Feed mode
	Punch level 12	> COM3 PORT 11	FTP server	#VW/I Interface	Turn-on mode
		Baud rate 11	FTP password 13		Error reprint
		No. of data bits 11	WEB server	> DRIVEASSIGNMENT	EasyPlug errors
		Parity 11	WEB admin passw. 13	Drive C	Single job mode
		Stop bits 11	WEB supervisor p. 13	Drive D	Head resistance 13
		Data synchron. 11	WEB operator p. 13	Drive E 40	Temp. reduction
		Serial Port Mode 11	Time client	Drive F	Voltage offset
		Frame error 11	Time server IP 32		Expand Logo 3
			Sync interval 32		Miss. label tol.
		> COM4 PORT	DHCP host name		Gap detect. mode
		Baud rate	WLAN SSID 31		Foil stretching 13
		No. of data bits	WLAN WEP 31		Head lift autom.

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

(System Param. cont.)

Mat. end detect.	
Periph. device	13/16
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print info mode	
Language	
Keyboard	
Signal / buzzer	
Access authoriz.	
Realtime clock	
Ribbon pre Start	13

DP INTERFACE	7
Interface type	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Apply mode	19
USI profile	26
Warning signal	7

ZPL PARAMETERS	10
Version	10
Darkness	10
Control Prefix	10
Format Prefix	10
Delimiter Char	10
Label Top	10
Left Position	10
Manual Calibrate	10
Resolution	10
Error Indication	10
Error Checking	10
305 DPI Scaling	10
Image Save Path	10
Command ^PR	10
Command ^MT	10
Label Invert	10
Command ^JM	10

I/O BOARD PARA	11
Start print mode	11
Reprint Signal	11
Feed	11
Pause input	11
Error output	11
Error polarity	11
Status output	11
Status polarity	11
End print mode	11

SPECIAL FUNCTION	
Printer type	13
Printhead type	13
Sensor type	13
Command Sequence	13
Delete job	
Delete spooler	
Factory settings	
Custom defaults	13
Store Parameters	
Store Diagnosis	
Gen.Support Data	
EasyPI. file log	30
Log files delete	30
Data blocks del.	9

SERVICE FUNCTION	
Service	13
Head exchange	13
Roller exchange	13
Serv. data reset	13
Head dot test	
Head step tune	13
EasyPlug monitor	13
EP Monitor Mode	13
Head adjust	
Sensor adjust	13
Sensor test	
Cutter test	
Matend tolerance	
Feedadjust label	
Feed adjust	
Foil feed adjust	13
Punch Y calibr.	13
PS register	13
Scanner test	
Memory card test	
Send test	
Receive test	
Print test	

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

SERVICE DATA	(Service Data cont.)	(Service Data cont.)
> MODULE FW VERS.	> POWERSUPPLYDATA	> MEMORY DATA
System version	Type	Ram memory size
System revision	Version 29	Flash mem size
System date	Serial number 29	CompactFlash 30
Bootloader	PS temperature	
uMon	Operation time 29	
Feed driver	Total on time 29	Space for Jobs
Foil driver		Max. Labellength
Head driver	> CPU BOARD DATA	Default values
Rewinder 29	CPU identifier	
USI interface 29	PCB revision	
Applicator int. 29	FPGA version	
	MAC address	
> OPERATION DATA	Serial number	
Serv. operations	Production date	
Headnumber	PCB part number	
Roll number	Board part numb.	
Head run length	Manufacturer 13	
Roll run length	Work place 13	
Tot. mat. length	Company name 13	
Tot. foil length		
Total head moves	> DISPLAY DATA	
Head strobes	Display version	
Head temperature	Display serialnr	
Foil diameter	Remote disp. vers. 24	
Operation time	Remote disp. # 24	

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

PRINT INFO	PRINT PARAMETERS	SYSTEM PARAMETER	APPLICATOR PARA 25	SPECIAL FUNCTION	SERVICE FUNCTION
Printer status	Print speed	Light sens. type	Dwell time 25/27	Delete job	Head dot test
Memory status	Feed speed	Ribbon autoecon.	Blow on time 25/27	Delete spooler	Print test
Font status	Material type	Ribbon eco. limit	Restart delay 25	Store Parameters	
Flashdata status 9	Material length	Print contrast	Position timeout 25/27	Store Diagnosis	
Service status	Material width				
Dottest endless	Print direction				
Dottest punched	X – print offset				
Reference label	Y – print offset				

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

SERVICE DATA	(Service Data cont.)	(Service Data cont.)
> MODULE FW VERS.	> POWERSUPPLYDATA	> MEMORY DATA
System version	Type	Ram memory size
System revision	Version 29	Flash mem size
System date	Serial number 29	CompactFlash 30
Bootloader	PS temperature	
uMon	Operation time 29	
Feed driver	Total on time 29	Space for Jobs
Foil driver		Max. Labellength
Head driver	> CPU BOARD DATA	Default values
Rewinder 29	CPU identifier	
USI interface 29	Syst. controller	
Applicator int. 29	PCB revision	
	MAC address	
> OPERATION DATA	Serial number	
Serv. operations	Production date	
Headnumber	PCB part number	
Roll number	Board part numb.	
Head run length	Manufacturer 13	
Roll run length	Work place 13	
Tot. mat. length	Company name 13	
Tot. foil length		
Total head moves	> DISPLAY DATA	
Head strobes	Display version	
Head temperature	Display serialnr	
Foil diameter	Remote disp. vers. 24	
Dispensing cycl.	Remote disp. # 24	
Operation time		

1. Only 64-xx dispenser with 4" printhead 2. Only if SYSTEM PARAMETER > Ribbon autoecon. = „On“, „On Turbo“ or „Thermal/headlift“ 3. Only with 8-Dot-Emulation 4. Only with 64-08 5. Only with rewinder option 6. Only with cutter 7. Only with USI interface 8. Only if SYSTEM PARAMETER > Gap detect. mode = Autom. feed back 9. Only with at least one data block stored in the flash memory 10. Only if SYSTEM PARAMETER > Print Interpret. = „ZPL Emulation“ 11. Only with I/O board 12. Only if PRINT PARAMETERS > Punch mode = Manual 13. Only in production mode 14. Only with 64-xx dispenser 15. Only if SYSTEM PARAMETER > Autom. dot check = Continuous 16. For details read parameter description 17. Only with 64-04/05/06 18. Only with installed RFID option 19. Only if DP INTERFACE > Interface type = USI Applicator 20. Only with SYSTEM PARAMETER > Dispensing edge = „User defined“ 21. Not with 64-xx dispenser 22. Only with an activated RFID option 24. With connected remote display only 25. With Applicator Interface only 26. Only OLV option activated 27. Depends on the applicator type 28. Only if INTERFACE PARA > NETWORK PARAM. > WEB server = „On“ 29. Availability depends on device conf. 30. Only with a CF card inserted 31. Only with a WLAN CF card inserted 32. Only if INTERFACE PARA > NETWORK PARAM. > Time client = „On“ 33. Only if SYSTEM PARAMETER > Periph. device = „Tear-off edge“ 34. Only if SYSTEM PARAMETER > Periph. device = „Dispenser“ 35. Only if DISPENSER PARA > Transport mode = „Dual motors“ 36. Only if DISPENSER PARA > Speed Adaption = „On“ 37. Only if DISPENSER PARA > Multi label mode = „x labels/start“ 38. Only if DISPENSER PARA > Multi label mode = „3 labels/start“ 39. Only PEM 39. Only if CPU board index is -06 or lower

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64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

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PRINT INFO

A material width of 100 mm is necessary to print the reports. The status print-out is approx. 200 mm long.

Printer status

64-xx ALX 92x DPM PEM ALX 73x (PMA)

A protocol can be printed to get an overview of customer-specific parameter settings, see [1].

► Which parameters are listed, depends on the printer type.

Printer Status	Printer Status	Printer Status	Printer Status
Printer type : ALX 92x RH Print head type : RCE 8-dot System version : V8.35 May - 4 2010 Printer Parameter Menu Print speed : 8.0 inch/s Feed speed : 8.0 inch/s Material type : Endless Material length : 28.0 mm Material width : 100.0 mm Print direction : Feed first Punch offset : 0.0 mm Bar code multip. : 1 UPC plain copy : In line EAN Reader : Standard EAN exp. limit : With readl. only Rotated barcodes : Optimized Dispense Mode : Real 1:1 mode Dispense position : 0.0 mm X - Printadjust : 0.0 mm Y - Printadjust : 0.0 mm Punch mode : Automatic Punch level : 128 Printer Interface Menu Busyping Interpreter Interface : TCP/IP SOCKET Spooler mode : Multi print jobs Printer ID no. : 1 Spooler size : 84 KBytes Offline mode : Invert. disabled Interface delay : 0 ms COM Port Parameter Baud rate : 115200 Baud No. of data bits : 8 Parity : None Stop bits : 1 Bit	Printer Status Date system : HTS/CTS Frame error : Display COM Port Parameter Baud rate : 115200 Baud No. of data bits : 8 Parity : None Stop bits : 1 Bit Date system : HTS/CTS Frame error : Display Canon Port Parameter PrP function : On Ethernet Parameter IP Address assign : DHCP IP address : 194.090.029.062 Net mask : 255.255.254.000 Gateway address : 194.090.029.001 Port address : 9100 Ethernet speed : Auto negotiation SNMP Agent : Disabled FTP server : Enabled WEB server : Enabled WEB display ref. : 5 s Time client : Disabled DHCP host name : PCN05_060131 MAC Address : 90.9a.93.0a.01.31 Options Parameter CLV Option : Disabled RFID Option : Disabled Standard Input : None Printer System Menu Head disp. dist. : 25.0 mm Speed unit : inch/s Cover open error : Immediately Foil end warning : 35.4 mm	Printer Status Foil warm stop : Disabled Display mode : Job next queue Dispense counter : 0 Autos. dot check : Off Print interpret : Emulating Character size : 12M Character fiber : Blank 2 = 200Hz Light sens. type : Parallel Ribbon out sensor : Disabled Ribb. exp. limit : 10.0 mm Feed mode : Head up Turn-on mode : Online Error reprint : Enabled Busy flag error : Token not handl. Single-job mode : Disabled Head resistance : 1000 Ohm Temp. reduction : 20 % Voltage offset : 0 % Misc. label fol. : 2 Cap detect. mode : Autos. forward Mat. and detect. : Transparent Perish. device : Tear-off edge Single job queue : 1 Dispensing mode : Ink Application mode : Save mode External signal : Single start Start print mode : Pulse falling Print contrast : 85 % RAM disk size : 512 KBytes Font downl. area : 255 KBytes Free store size : 3272 KBytes Print info mode : Print values right Repeat function : Disabled Language : English Keyboard : English Signal / buzzer : Off Access Auth. : Deactivated Realtime Clock : 18.09.2010 09:54 Material feed : In- / backwards	Printer Status Application Parameter Menu (PMA) Application type : 0 Start print mode : 0 Restart delay : 0 Internal Options Default values : 0 Core2 Option : 0

[1] Example of printout „Printer status“.

Listed items:

- System version:
 - Shows the installed firmware version as well as the release date of this version.
 - Firmware version: R = firmware RISC processor, H = firmware H8 processor.
- Printer type:
 - Shows the printer type, which has been set using parameter `SERVICE FUNCTIONS > printer type` (e.g. 64-04)
 - "USA" displayed after the printer type indicates that the USA font is loaded.
 - "8DOT" displayed after the printer type indicates that the 8-Dot emulation is loaded.

- **Printer Parameter Menu**
Shows the setting of the parameters in the **PRINT PARAMETERS** menu.
- **Printer Interface Menu**
Shows the setting of the parameters in the **INTERFACE PARA** menu.
- **Printer system menu**
Shows the setting of the parameters in the **SYSTEM PARAMETER** menu.
- **Dispenser Interface**
Shows the setting of the parameters in the **DP INTERFACE** menu.
- **Internal Options**
 - **Default values:** Shows the values which are used in case of a factory reset (Standard or Default). See parameter **SPECIAL FUNCTION > Default Values**.
 - **Realtime Clock:** Shows the set time and date, if a realtime clock is installed. In case of a too low battery, the line "Battery empty" is added.
 - **2. com port:** Shows if an additional serial Interface is installed (not supported).

Memory status

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

A memory protocol can be printed to provide an overview of the distribution of the available memory capacity (one page).

▮▮▮▮▮ The entries differ depending on printer type and configuration.

MEMORY STATUS	
Internal Memory Configuration	
RAM memory size	: 64 MB
Flash memory size	: 4 MB AND
CompactFlash	: 112 MB / 128 MB
Space for jobs	: 612 MB
Max. Label length	: 8167 mm
Default values	: Standard
Space for spooler	: 64 KB
Space for RAM disc	: 612 MB
Fast download	: 1000 KB
Free store size	: 3002 KB
Logos on RAM disc	
Graphics on RAM disc	
Encoding Information Memory Card (C0)	
Test job for	: 600 Bytes
Logos on Memory Card (C0)	
Graphics on Memory Card (C0)	

[2] Example of a „Memory status“ printout.

Listed items:

- Internal Memory Configuration
- See paragraph > [MEMORY DATA](#) on page 156.

- Logos on RAM disc
 - Graphics on RAM disc
 - Fonts on RAM disc
- See „Plugin card manual“, topic section „Application“, chapter [CF/SD cards](#) 

Font status

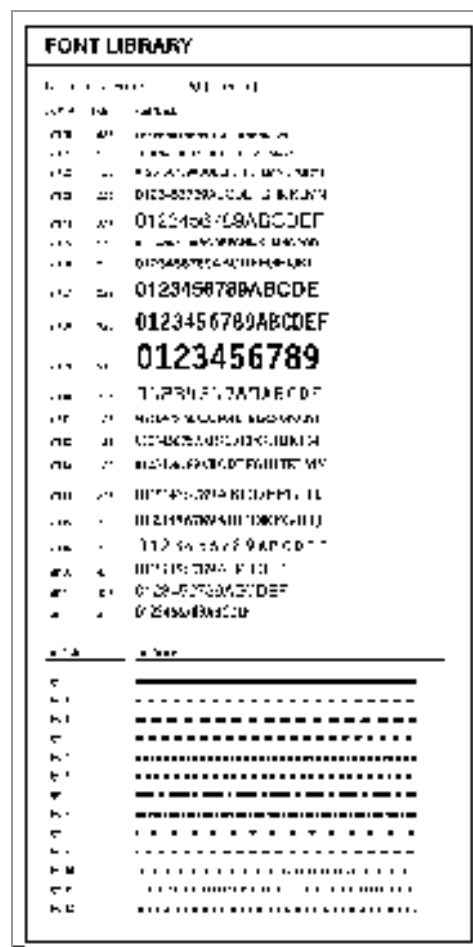
64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Print samples of all installed characters, bar codes and line samples (several pages).

Page „Font Library“ shows a list of the internal fonts and line styles.

Internal Fonts

- ➔ Use the Easy-Plug commands listed in the first column of the report (e.g. #YT100), to print using the appropriate font.
- Easy Plug commands: Refer to the Easy Plug Manual, topic section [Description of Commands](#) .
 - For a list of all characters contained in the internal fonts, refer to the User Manual, topic section [Internal Fonts](#) .



[3] Print sample „Font Status“, section „Font Library“.

Internal Line Styles

➔ Use the line style number (first column) with one of the Easy Plug commands #YL or #YR to print lines in the matching style.

- Easy Plug commands: Refer to the Easy Plug Manual, topic section [Description of Commands](#) .

➔ Additionally, the following line styles are available:

- 13: Checked pattern with 3 dot edge length
- 14: Checked pattern with 1 mm edge length
- 15: Checked pattern with 5 mm edge length

➔ The line width has to be defined as a multiple of the edge length of the checked pattern!

Internal bar codes

The pages titled „Barcode Library“ show print samples of the internal bar codes (see [4], [5]).



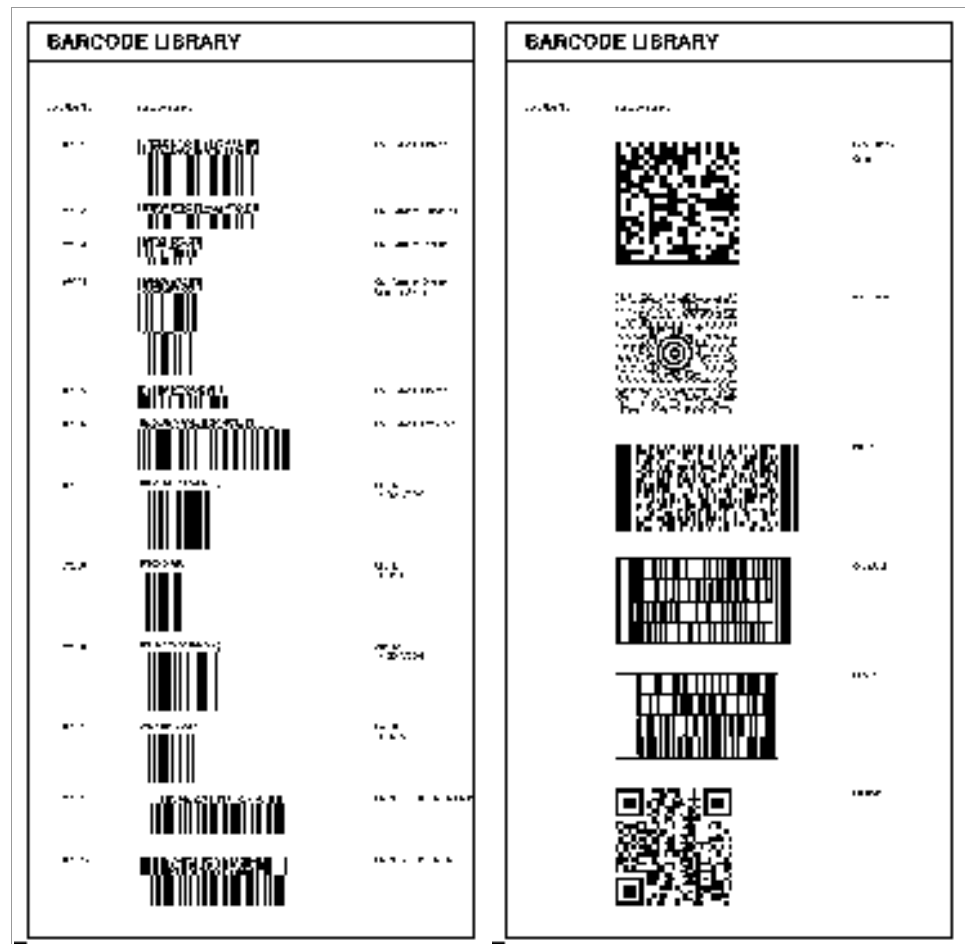
[4] Print sample „Font Status“, section „Barcode Library“.

- *Onedimensional bar codes* are printed with the Easy-Plug command #YB, see manual Easy-Plug, topic section [Description of Commands](#) .
- *Two-dimensional bar codes* are printed by means of special Easy-Plug commands:

Easy-Plug command	Bar code
#IDM	Data Matrix Code
#MXC	Maxi Code
#PDF	PDF 417
#CBF	Codabar F
#CFN	Code 49
#SQR	QR Matrix Code

[1] Internal, two-dimensional bar codes.

- **GS1 DataBar** (formerly RSS) and **Composite Component (CC)** bar codes are printed by means of the Easy-Plug command #RSS. The bar code is determined by the number in the first column of the subsequent table. This number is added to the command as a parameter.



[5] Print sample „Font Status“, section „Font Library“: Listing of RSS-Codes and 2-dim. bar codes.

Flashdata status

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Prints a list of all fonts stored in the flash memory. This can be e. g. customized fonts or diagnose data.

- For details see topic section [Internal Fonts](#) , paragraph „Customized fonts“.
- For detailed information about diagnosis data refer to the service manual, topic section „Fault location“, „Reading out diagnosis data“.

FLASH DATA BLOCKS	
Flash data block address	: 12577 h, 16 bits
Flash data block partition size	: 12 Kbytes
Number of flash data blocks	: 5
Maximum length of data blocks	: 11254 h, 16 bits
Block 0: 00000000 h to 00000000 h	: 12577 h, 16 bits
Block 1: 00000000 h to 00000000 h	: 12577 h, 16 bits
Block 2: 00000000 h to 00000000 h	: 12577 h, 16 bits
Block 3: 00000000 h to 00000000 h	: 12577 h, 16 bits
Block 4: 00000000 h to 00000000 h	: 12577 h, 16 bits

[6] Example printout „Flashdata status“.

Service Status

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Print the Service status report to read about operation time, no. of services, no. of exchanged parts and other matters of service interest (one page).

Use the parameter `SERVICE FUNCTION > Serv. data reset`, to set all the counters to zero, which are listed on the printout.

Service Status	
Operational Data	
Service operations	: 4254887255
Head number	: 0
Roll number	: 0
Knife number	: 0
Head run length	: 0 m
Roll run length	: 0 m
Cut-on knife	: 0
Total material length	: 358429 m
Total roll length	: 358153 m
Total cuts	: 2187
Total head moves	: 2414
Head strokes	: 1922179
Roll diameter	: 44.5 mm
Operation time	: 20 hours 16 min
Power supply data	
Type	: CME PSupply
CPU board data	
CPU identifier	: 04-16
System controller	: GT-54111
Board/Revision	: REV04
Peripheral driver	
Feed driver	: V3 - T3
Roll driver	: V3 - T3
Head driver	: V3 - T3
Peripheral driver	: V3 - T3
USB interface	: V2 - T1

[7] Example of a „Service Status“ printout.

- For information on the operational data on the service status printout refer to paragraph > [OPERATION DATA](#) on page 150.
- For information on the power supply data on the service status printout refer to paragraph > [POWERSUPPLYDATA](#) on page 153.
- For information on the CPU board data on the service status printout refer to paragraph > [CPU BOARD DATA](#) on page 154.
- For information on the peripheral driver data on the service status printout refer to paragraph > [MODULE FW VERS.](#) on page 148.

Dottest endless

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Dottest for application with endless label stock.

This function prints a pattern which enables trained personnel to check the adjustment as well as the function of the printhead.

Only in supervisor mode:

If no dot check has been proceeded (by calling the parameter `SERVICE FUNCTION > Head dot test`) since powering on the printer, a test is started before printing the status report. Depending on the result, one of the following messages is printed on the bottom margin of the label:

- "All print dots o.k."
- "x print dots defective"

■ 64-08 printers don't proceed this dot check automatically, because this would be very time consuming. The printout shows the message:

- "Head Dot Test not yet executed"

If a dot test has already been performed since powering on the printer, the above showed messages are also displayed at 64-08 printers after proceeding a "Dottest endless" or „Dottest punched".

- For information about the supervisor mode, see paragraph [Access authoriz.](#) on page 93

Test pattern

The „Dottest endless“ or „Dottest punched“ prints a pattern consisting of 33 rows filled with vertical lines on the upper label area. All lines have a constant distance of 4 dot. With every new row, the line pattern is shifted one dot. The resulting line-pattern repeats every four rows.

The test pattern shows missing dots clearly as white vertical lines running through the pattern.

The lower label area is filled with testpatterns, which are kept close to those used by Kyocera. The patterns are useful for printout comparison.

The bars underneath the test pattern allow the adjustment of the different zero lines.

Dottest punched

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

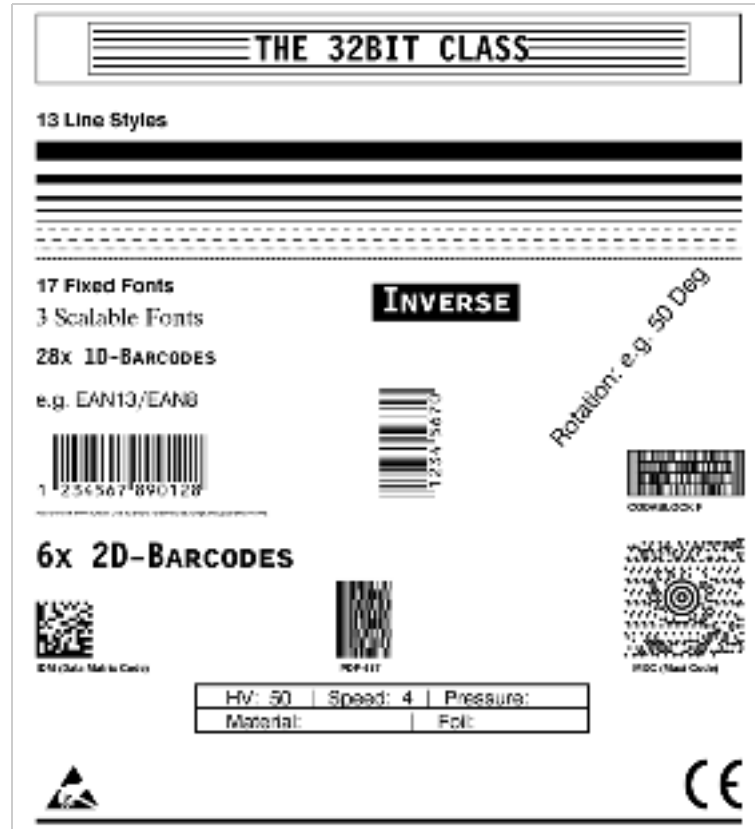
Dottest for application with punched material.

- See parameter [Dottest endless](#) on page 37.

Reference label

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Prints a label with some examples of barcodes, fonts, logos... just try out!



[8] Example of a Reference label printout (INFO AUSDRUCKEN > Reference label).

RFID Status

■ Only with activated RFID option.

64-xx ALX 92x DPM

Prints a status printout with RFID specific data:

RFID Status	
System version	: V4.00 Jun 23 2005 [R4.00 PE2.50 H4.00Q]
Printer type	: 64-05
Nr CMD retries	: 3
Nr invalid tags	: 3
Statistics	
Nr of Tags	: 7043
Nr. invalid tags	: 2788
Total Nr. SELECT	: 7803
Invalid SELECT	: 16%
Total Nr. READ	: 1189
Invalid READ	: 29%
Total Nr. WRITES	: 5483
Invalid WRITE	: 37%
Rate READ	: 45
Rate WRITE	: 46

[2] Example of a RFID status printout (INFO AUSDRUCKEN > RFID Status).

PRINT PARAMETERS

Print speed

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The print speed (material feed) can be adjusted according to the ribbon and material combination being used in order to optimise the contrast depth and the density of the print image.

x inch/s (mm/s)

Setting range: see table (tab. 3); Unit interval: 1 inch/s (5 mm/s)
Default setting: 8 inch/s

■ DPM / PEM / ALX 92x / ALX 73x (PMA): Print speed can be set optionally in Inch/s or mm/s. The unit is selected with **SYSTEM PARAMETER > Speed unit**.

Printer	Print speed / feed speed	
	(mm/s)	(Inch/s)
64-04/05		2-16
6406		2-14
64-08		2-9
ALX 924/5, DPM 4/5", PEM 4/5", ALX 734/5 (PMA)	50-400	2-16
ALX 926, DPM 6", PEM 6", ALX 736 (PMA)	50-300	2-12

[3] The setting range of the print/feed speed depends on the printer type.

Feed speed

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting:

The value for the feed speed should not be set too high for print applications with long calculating units (e. g. consecutive numbering). This can help to avoid alternating between abrupt braking to 0 (zero) and acceleration to print speed.

■ When altering the print speed, the feed speed is equal to the print speed. If a different feed speed is required, this must be set again.

x inch/s (mm/s)

Setting range: see table (tab. 3); Unit interval: 1 inch/s (5 mm/s)
Default setting: 8 inch/s

■ DPM / PEM / ALX 92x / ALX 73x (PMA): Print speed can be set optionally in Inch/s or mm/s. The unit is selected with **SYSTEM PARAMETER > Speed unit**.

Material type

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Definition of the materials used. A distinction is made between reel material and gapped material (hole gaps, self-adhesive material with register gaps). The detected gap position corresponds to the start of the label.

■ The value is overwritten by the appropriate Easy Plug command when sending label formats.

Endless

If material is to be used without gaps.

Punched

If material is to be used with gaps (default setting).

Material length

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The material length (label length) is the distance between the gaps, measured from the front edge (beginning) of a label to the front edge of the next label.

■ The value is overwritten by the appropriate Easy Plug command when sending label formats.

xxx mm

Setting range: 5 mm to "max. length entry"; Unit interval: 0.1 mm

Default setting: 100 mm

Maximum length entry: dependent on the print head width and memory configuration.

Material width

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Zero position of the left border. If the printer is working in line-printer mode, alterations can be made in millimetre units.

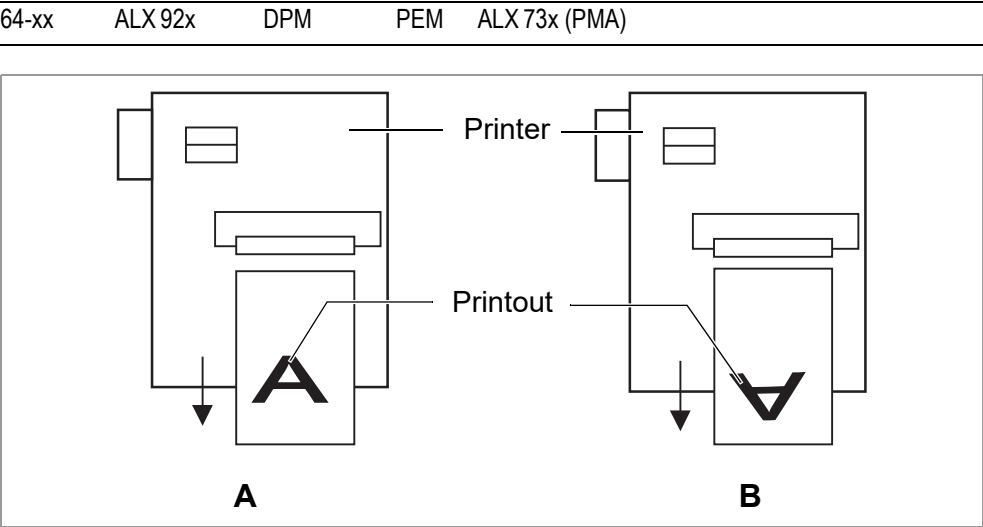
xxx mm

Setting range: "min. width" to "max. width"; Unit interval: 0.1 mm

Default setting: 100 mm

- Min. width: dependent on the printer type
 - Max. width: dependent on print head width and memory configuration.
- For detailed material width information, refer to topic section „Specifications“.

Print direction



[9] Orientation of the printout „Foot first“ (A) or „Head first“ (B).

Foot first
Head first

(Default) Orientation of the printout according to [9A].

Orientation of the printout according to [9B]. Mind the following:

- Define the „true“ label length (without gap length) in parameter `PRINT PARAMETERS > Material length`. If the label gap is wider than 5 mm, the parameter `SYSTEM PARAMETER > Miss. label tol.` must be set to a value more than zero.
- The distance between material base line and the first printable dot is 1 mm. To keep this distance while printing „head first“, the material width must be calculated as follows::

$$b_{Mat} = b_{Bp} - 2mm \text{ , with}$$

b_{Mat} : Material width

b_{Bp} : Backing paper width

Punch offset

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The zero position can be determined offset in millimetre units from the detected gap position.

- The value is overwritten by the appropriate Easy Plug command when sending label formats.

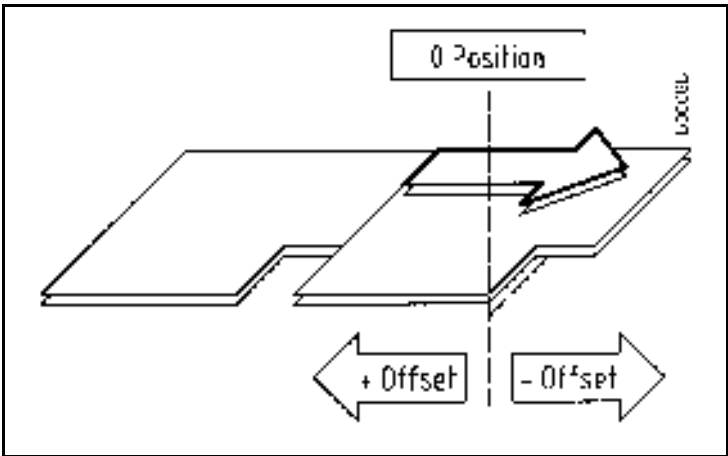
xxx mm

Setting range: -8 to +max. label length; Unit interval: 0,1 mm

Default setting: 0 mm

Maximum offset in feed direction: -8 mm

Minimum offset against feed direction: +max. label length



[10] Positive and negative offset in relation to the feed direction (arrow).

Bar code multip.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Bar code height scaling factor

Increases the bar code height defined in the label layout (Easy-Plug) by multiplication by a factor of 1 to 10.

x

Setting range: 1 to 10; Unit interval: 1; Default setting: 1

The printed bar code height calculates starting with the value defined in the label layout multiplied by the scaling factor x.

Tradit. Imaging

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ In production mode only.

Up to firmware version x.31, the barcode height was calculated with the formula:

$$Barcodeheight_{Print} = (Barcodeheight_{Layout} + 1) \cdot x$$

with x = PRINT PARAMETERS > Barcode Multi.

By doing so, the printed barcode height in millimeters was by 1 higher than the value defined in the layout (1 --> 2 mm, 2 --> 3 mm, etc.)¹⁾.

From firmware version x.31 on, the printed barcode is exactly as high in millimeters, as the value in the layout is (1 --> 1 mm, 2 --> 2 mm, etc.)¹⁾.

No

New height calculation (1 --> 1 mm, 2 --> 2 mm, etc.) is applied (default setting).

The plain copy line is printed with OCR-B font.

Yes

Setting for customers with print layouts based on the old height calculation scheme.

1) Assumed that PRINT PARAMETERS > Barcode Multi. = „1“.

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

The plain copy line of the barcodes EAN8, EAN13, UPC-A and UPC-E is printed with the same fonts, which older printer types like TTK or TTX x50 have used.

UPC plain-copy

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The position of the first and last digit in the plain-copy line - underneath the bar code - can be adjusted as required.

Raised

First and last digit of the UPCA or first digit with the UPCE are raised (default setting).

In line

All digits in the decoded line are in line under the code.

EAN Readline

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

<> Signs

Readline enclosed in "<>" signs or terminated by a ">"-Sign (EAN 13).

Standard

Readline without "<>" or ">" signs (default).

EAN sep. lines

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

EAN separation lines. Parameter for controlling of EAN or UPC barcodes if they are printed without readline.

With readl. only

(Default) The separation bars at the beginning, middle, and the end of the barcode are only long, if the barcode is printed with a readline.

Always long

The separation bars at the beginning, middle, and the end of the barcode are always long, regardless if the barcode is printed with or without readline. The position of the barcode is the same as with the readline option switched on.

Dispense Mode

64-xx	ALX 92x	DPM
-------	---------	-----

Governs the run of the print-dispense procedure.

■ Only if **SYSTEM PARAMETER > Periph. device** = „Tear-off edge“.

■ The ribbon autoeconomy function can only be used in "Real 1:1 Mode"! With this setting, the printer can be used as a mere dispenser without processing print jobs. Set the material length before you use this function.

Dispense only

See parameter **PRINT PARAMETERS > Material length**.

After calling "Dispense only", the printer restarts; afterwards, the following is displayed:

Dispense only Labels	0
-------------------------	---

0 = Number of dispensed labels.

The parameters menu can be activated as usual after having switched to the offline mode by pressing the Online button two times.

Normal 1:1 Mode

- The printer cannot print on the whole label surface. A stripe at the label beginning stays unprinted.
- The label is being dispensed while printing.
- The output volume is at its maximum level.

➡ The width of the unprintable strip is calculated as follows:

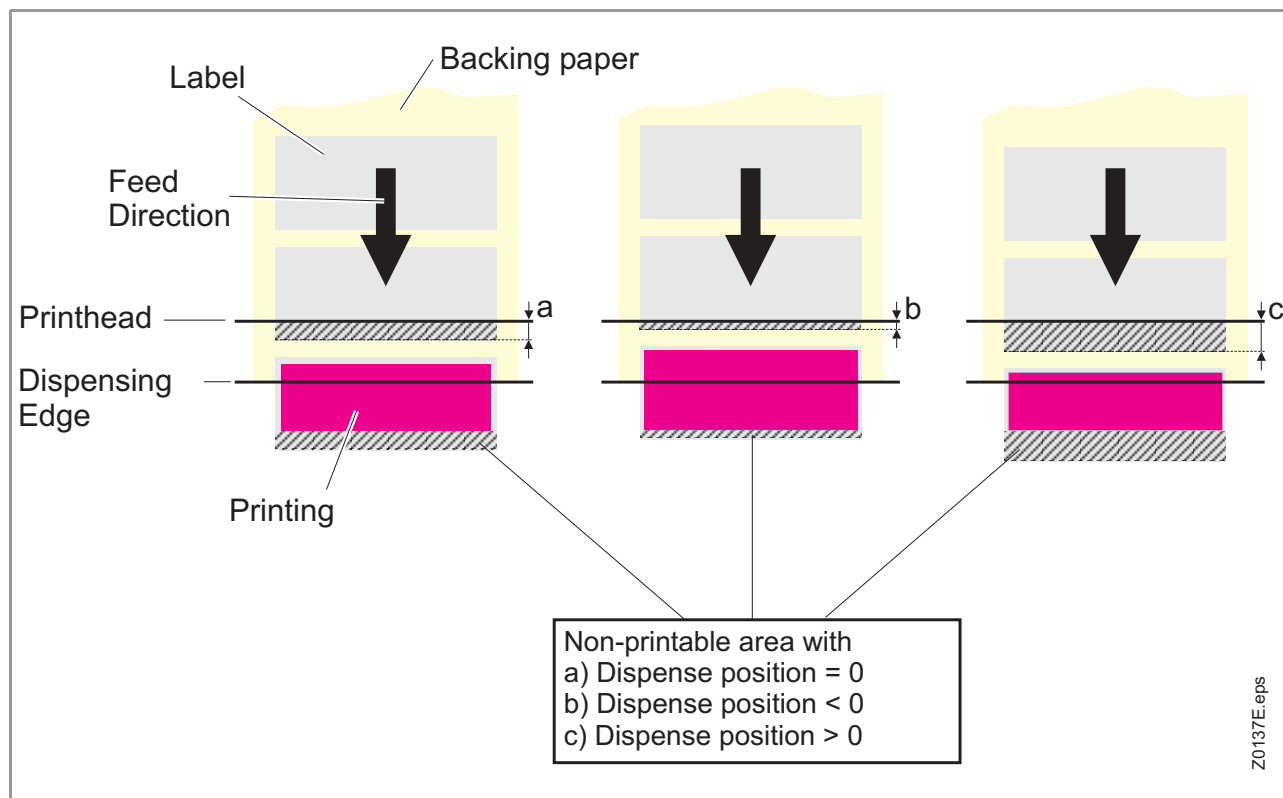
Distance print line to dispensing edge + Dispense position (see [4])

Printer	Distance print line - dispensing edge
64-xx	39.8 mm (long dispensing edge) 24.2 mm (short dispensing edge)
AP 5.4	25.0 mm

[4] Distances between print line and dispensing edge for some printers.

➡ The position of the print image on the label depends on the length of the unprintable strip. If the dispensing position is changed, or printed on a different device or with a different dispensing edge, the position of the print image shifts in or against the print direction.

- Also refer to parameter `PRINT PARAMETERS > Dispense position`.
- A graphic can be found under `PRINT PARAMETERS > Cut mode > Normal 1:1 mode`.



[11] The size of the not imprintable area in Normal 1:1 depends of the setting of parameter `SYSTEM PARAMETER > Dispense Position`.

Batch Mode

- The printer can print the whole label surface.
- Dispensing of the label takes place during printing. Printing of the next label is interrupted until the label is completely dispensed.
- The output volume is at its maximum level.

■ The *Batch mode* is optimised for printing and dispensing at high speeds. Due to this, it is not possible to use all features available in modes *Normal 1:1* or *Real 1:1*. Also consider, that printing data must be available on time and in sufficient quantity.

■ The following Job/Parameter-combinations must not be used:

- Jobs with counter fields
- Jobs with variable fields
- SYSTEM PARAMETER > Dispensing mode must be set to "fast".
- The USI reprint function is not supported. DP INTERFACE > Reprint signal must be set to "deactivated".
- Foil save

○ A graphic can be found under PRINT PARAMETERS > Cut mode > Batch mode.

Real 1:1 Mode

(Default setting)

- The printer can print the whole label surface.
- After dispensing a label, the beginning of the next label is drawn back under the print head.
- The output volume is lower than in *Batch Mode* or *Normal 1:1 Mode*.

○ A graphic can be found under PRINT PARAMETERS > Cut mode > Real 1:1 mode.

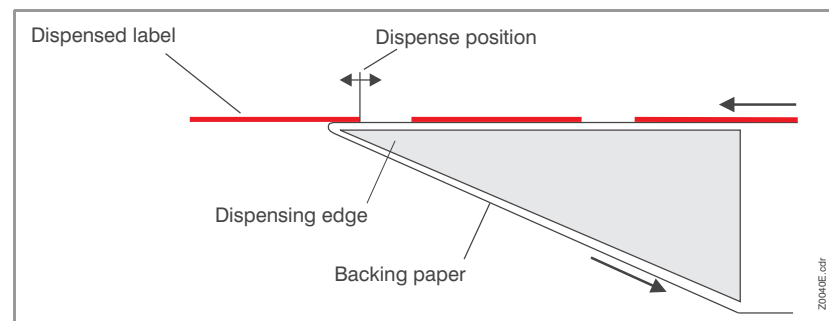
Dispenseposition

64-xx	ALX 92x	DPM

■ Only with SYSTEM PARAMETER > Periph. device = „Tear-off edge“.

Dispense position

Adjusts the dispense position in or against the feed direction. Depending on the set dispense position, the dispensed label sticks to the backing paper with a more or less wide strip [12]. The required width of this strip depends on the further processing.



[12] Dispense position (= stop position) of the dispensed label.

x.x mm

Setting range: -30.0 to +20.0 mm; Unit interval: 0.1 mm; Default setting: -6.0 mm

Cut mode

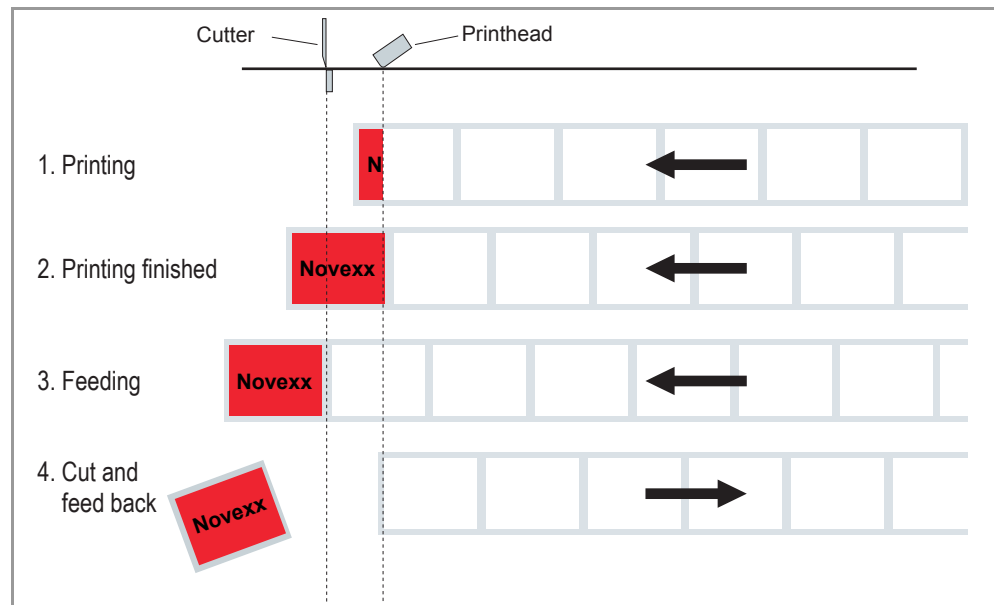
64-xx

Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = „Cutter“).

This is where the procedure for the label output and cut is defined.

Real 1:1 mode

The whole surface of the label is printable. The label is pushed forward to the cutter for cutting. After the cut, the beginning of the next label is drawn back under the print head. This reduces the output volume (in relation to a certain time).



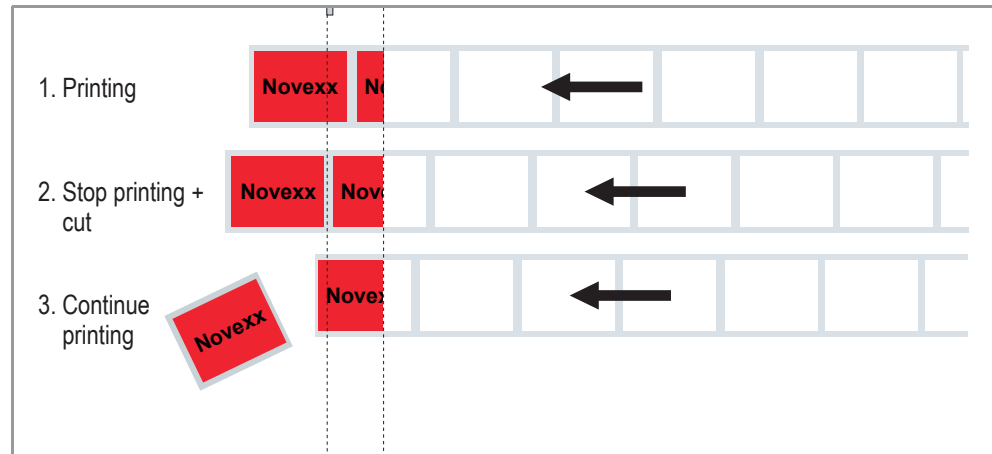
[13] Printing process (schematic) in „Real 1:1 Mode“.

Batch mode

The whole surface of the label is printable. Cutting takes place during printing. This can result in brief interruptions within the print zone of the following label. The output volume is at its maximum level.

Requirements for the batch mode are:

- Ribbon economy is not active (parameter `SYSTEM PARAMETER > Ribbon autoecon.` = "Off")
- Material length >18 mm (>14 mm on the TTX 350)
- Number of cuts for a print job - at least 2 or more

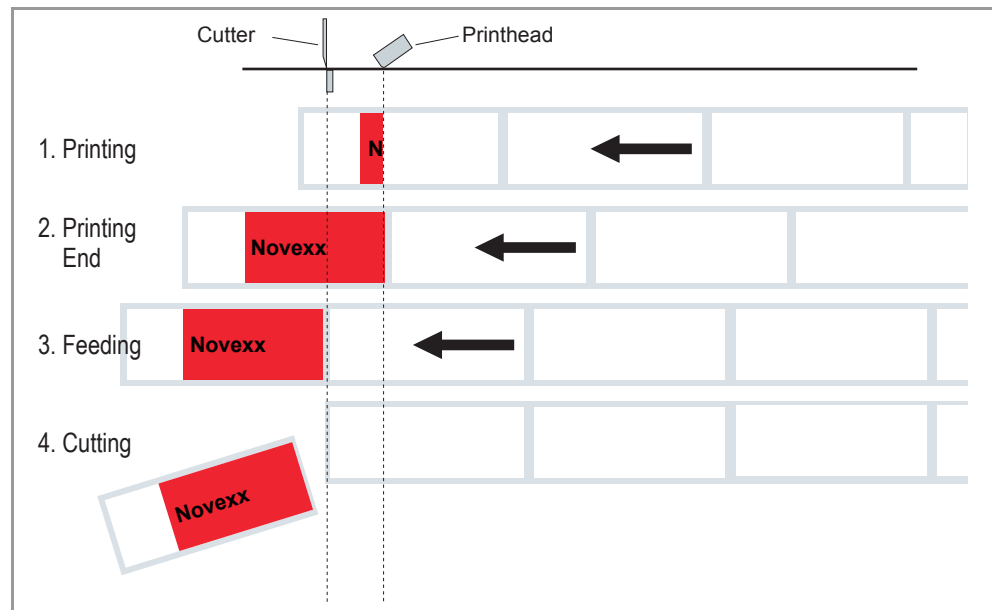


[14] Printing process in Batch mode (schematic).

Normal 1:1 mode

In N1:1 mode, cutting takes place during printing. The zero-line of the printing is shifted 18 mm in y-direction. This offset equals the distance cutter-print-head. Caused by this shifting, the first 18 mm of the label are not printable (= unprintable strip). These measurement corresponds to the distance between print head and cutter. The output volume is at its maximum level. (The offset of the zero-line is caused historically and serves the compatibility of older printer models).

➡ The position of the print image on the label depends on the length of the unprintable strip. If the label is printed on another device with a different distance printhead-knife, the position of the print image shifts in or against the print direction.



[15] Printing process in Normal 1:1 mode (schematic).

Cut speed

64-xx

➡ Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = „Cutter“).

The cut speed is to be adjusted to the material thickness and strength.

x Setting range: 2 to 5; Unit interval: 1

- 2: extremely slow; for thick and strong material
- 5: extremely fast; for thin material

Cut position

64-xx

■ Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = „Cutter“).

The cut position is identical to the detected gap position, i. e. with the start of the label. Fine settings to meet specific customer requirements can be programmed using the parameter PRINT PARAMETER > Cut position.

x inch/s Setting range: -2.0 to +2.0 mm; Unit interval: 0.1mm

- Maximum offset in feed direction: -2.0 mm
- No offset: 0 mm
- Minimum offset against feed direction: -2.0 mm

Double cut

64-xx

■ Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = „Cutter“).

Joining grids or the gap area between the labels can be removed using a double cut, thereby improving the outline.

The first cut is offset by the distance set from the recognized gap position away in the feed direction, the second cut is made at the gap position.

A possible correction of the cut position ("Cut position" function) is calculated for both cuts and must be taken into consideration.

x inch/s Setting range: 0.0 to 5.0 mm; Unit interval: 0.1mm

Normal simple cut: 0.0 mm

■ The smallest possible double cut distance of 1.0 mm must be adhered to!

Rest position

64-xx

■ Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = Cutter).

To avoid that the label material is wrapped around the print roller after a long idle time, the material rest position can be changed to „at cutter“.

at head

The material rest position in idle times is at the print head

at cutter

The material rest position in idle times is at the cutter to avoid material being wrapped around the print roller

Cut width

64-xx

■ Only with mounted and activated cutter (SYSTEM PARAMETER > Periph. device = „Cutter“).

xxx

Setting range: 0 to MAX_CUT_WIDTH;
Default setting: MAX_CUT_WIDTH

The values for MAX_CUT_WIDTH depend on printer type and printhead:

Printer	MAX_CUT_WIDTH
64-04	106
64-05	128
64-06	160
64-08	213
AP 5.4 with 203 dpi	104
AP 5.4 with 300 dpi	105
AP 5.6 with 203 dpi	168
AP 5.6 with 300 dpi	167

■ The values for MAX_CUT_WIDTH don't equate to the real cut width (no linear relation between value and cut width). The proper setting value has to be determined by trying.

Rewind direction

64-xx

■ Only with mounted and activated (external) rewinder (SYSTEM PARAMETERS > Periph. device = „Rewinder“). Determines the sense of rotation of the optional Rewinder.

Printing outside

Rewind direction: The printed label is facing *outside*.

Printing inside

Rewind direction: The printed label is facing *inside*.

Rotated Barcodes

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Improves readability of rotated (90° and 270°) bar codes.

Normal

„Normal“ printing without special processing of rotated bar codes.

Optimized

(Default setting) The line and gap widths of rotated bar codes are modified to improve readability.

X - Printadjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The zero point of the mask is moved in relation to the edge of the label on the X- axis, i. e. lengthways to the material.

■ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

■ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "X-Printadjust", the part of the graphics which "juts out" will get lost.

x.x mm Setting range: -15.0 to +15.0 mm; Unit interval: 0.1mm

Default setting: 0.0 mm

- Maximum offset away from the edge of the label: +15.0 mm
- No offset: 0.0mm
- Maximum offset towards the edge of the label: -15.0 mm

Y – Printadjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The zero point of the mask is moved in relation to the gap position on the Y-axis, i. e. in the feed direction.

■ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

■ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "Y-Printadjust", the part of the graphics which "juts out" will get lost.

x.x mm Setting range: -15.0 to +15.0 mm; Unit interval: 0.1mm

Default setting: 0.0 mm

- Maximum offset in feed direction: +15.0 mm
- No offset: 0.0mm
- Minimum offset against feed direction: -15.0 mm

Punch mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Automatic

Automatic mode, for material with a contrast zone = gap in the label.

"Automatic" is the default setting, suitable for all materials with which there is a difference in the transparency between the label and gap of more than 2 values (see Description, sensor check).

Manual

Manual setting, for material with several varying contrast zones. Settings are made using the parameter `PRINT PARAMETERS > Punch level`.

The range of the value automatically measured by the gap detection can be defined specifically for the label material. This allows materials with high-contrast proof points within the label to be processed, which would otherwise be measured as 'false' gaps by the system. The corresponding setting value is then equal to, or smaller than, the value measured at the actual gap.

Punch level

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only if PRINT PARAMETERS > Punch mode = „Manual“.

Setting range: 0 to 255; Unit interval: 1

The value xxx stands for the current contrast within the photoelectric switch of the material which has just been inserted. This serves to determine a threshold value for the inserted material.

Punch level
Punch xxx Val yyy

xxx = current measurement at the punch sensor

yyy = set threshold value

Example

Self-adhesive material with black bars lengthways across the label

- Reading:
 - Masking paper: 30
 - Masking paper + label: 60
 - Masking paper + label + black bars: 190
- Setting value: 60
A setting value of 60 means that all readings over 60 are ignored, therefore also the reading 190 at the black bar.

INTERFACE PARA

Interface parameter

> EASYPLUGINTERPR

Print interface

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

This parameter sets the interface, by which the printer will receive data.

Serial Com1

Serial interface Com1.

Centronics

Parallel interface

■ Only with installed Centronics adapter board.

Only for Ethernet interface (10/100 Base T):

TCP/IP Socket

Print data can be sent to the printer via a TCP/IP socket

LPD Server

Print data can be sent to the printer via the LPR/LPD-protocol

USB

USB interface

Serial Com3

Serial interface Com3.

■ Only with optional I/O board mounted.

■ Selection of the type of serial interface is done with parameter `INTERFACE PARA > >COM PORT > Serial Port Mode`

Automatic

(Default setting) All interfaces are enabled to receive data, but *not simultaneously*.

■ Don't send data to more than one interface at a time.

■ Except are interfaces, which are being used by an option (e.g. OLV).

Spooler mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The operating mode of the spooler determines whether print series are processed individually, or whether the spooler can receive print data when printing several series.

Single print job

Single print series mode (the interface can only receive data after printing the required number of labels of a single series)

Mult. print jobs

Multiple print series mode (the interface can receive data while the series is being printed)

Printer ID No.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Printer identification number

Determines the identification number of the printer. In such a way, the printer can be addressed by the Easy Plug command #!An (n=printer ID).

The use of ID numbers is in particular reasonable for data transfer by RS422/485 interface, if several printers are connected by one data line. Each of the connected printers then only incorporates the data mapped to him by #!An command.

xx

Setting range: 0 to 31; Unit interval: 1

Spooler size

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The memory capacity of the printer buffer can be set according to the requirements of each customer.

xxx Kbyte

Unit interval: 16-2048 kBytes; step width: 16 kBytes; default setting: 64 kBytes

Offline mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Interf. disabled

(Default setting) Easy-Plug commands are *not* accepted, while the machine is in offline mode (no print jobs and no status queries).

Interf. enabled

Print jobs are *not* accepted in offline mode, but status queries with Easy Plug immediate commands (e. g. #!X) *are* accepted.

Interface delay

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

➡ Only visible, if INTERFACE PARA > EASYPLUGINTERPR > Offline mode = „Interf. enabled“

After switching from online to offline mode, the printer interface is deactivated. This parameter offers a settable delay time before deactivating the interface.

xxxx ms

Setting range: 0-1000; Unit interval: 100; Default setting: 0

> COM1 PORT

Baud rate

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Data transfer speed

Speed of data transfer using the serial interface.

xxxxxx Baud

Setting range: 300 to 115200 Baud; Unit interval: 300/600/1200/2400/4800/9600/19200/38400/115200 (default)

No. of data bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

This parameter can be defined in connection with both the serial and the parallel interface.

7

7 Data bits

8

8 Data bits

Parity

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Defines the parity check of serial transmitted data.

The parity bit is for checking data transmission. If the check shows an error, a corresponding message is displayed. The setting must be identical at the sender and the receiver. Normally transmission is set without a parity bit.

Odd

Odd parity.

A parity bit is added so that there is an odd number of 1 Bits.

Even

Even parity.

A parity bit is added so that there is an even number of 1 Bits.

None

No check bit. Sending and receiving without check bit.

Always zero

Check bit is always 0 (zero). Sending and receiving without parity check.

Stop bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Number of stop bits

1 Bit

1 stop bit

2 Bit

2 stop bits

Data synch.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Data synchronisation at the serial interface.

RTS/CTS

Data synchronisation through hardware

XON/XOFF

Data synchronisation through software

None

Handshake signals are ignored

Frame error

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Display

(Default) An error message is displayed, if a framing error is detected while the printer is receiving serial data.

Ignore

Framing errors will be ignored, no error messages are displayed.

> COM3 PORT

■ This menu only appears, if the optional I/O board is installed.

Baud rate

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ With mounted and connected I/O board only.
Speed of data transfer using the serial interface.

xxxxxx Baud

Setting range: 2400 to 115200 Baud; Unit interval: 2400/4800/9600/19200/38400/115200 (default)

No. of data bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ With mounted and connected I/O board only.
The number of data bits is always 8.

Parity

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ With mounted and connected I/O board only.
Defines the parity check of serial transmitted data.

The parity bit is for checking data transmission. If the check shows an error, a corresponding message is displayed. The setting must be identical at the sender and the receiver. Normally transmission is set without a parity bit.

Even	Even parity. A parity bit is added so that there is an even number of 1 Bits.
None	No check bit. Sending and receiving without check bit.

Stop bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ With mounted and connected I/O board only.
The number of stop bits is 2 and cannot be changed.

Data synch.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- With mounted and connected I/O board only.
○ See parameter [Data synch.](#) on page 59.

Frame error

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- With mounted and connected I/O board only.
○ See parameter [Frame error](#) on page 59.

Serial Port Mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ With mounted and connected I/O board only.
Setting of the serial interface type.

RS232	Sets Com2 to RS 232. Data synchronisation may be done by hardware (RTS/CTS) or by software (XON/XOFF). Maximum cable length is 15 m.
RS422	Sets Com2 to RS 422. RS 422 is a 4 wire point to point connection, suitable for only one device. Receiver and driver of the printer are always enabled. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.
RS485	Sets Com2 to RS 485. RS 485 is a 2 or 4 wire bus system for up to 30 devices. The printer's receiver is always enabled, the printer's driver is only enabled, if the printer sends data to the host. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.

> COM4 PORT

Internal interface, to which the optional RFID read/write unit can be connected.

Baud rate

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- See parameter [Baud rate](#)  on page 58.

No. of data bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Fixed setting of 8 Bits.

Parity

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- See parameter [Parity](#)  on page 58.

Stop bits

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Fixed setting of 2 Bits.

Data synch.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- See parameter [Data synch.](#)  on page 59.

Frame error

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- See parameter [Frame error](#)  on page 59.

> CENTRONICS

PnP function

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Off

The printer doesn't send any identification signals to the Centronics port.

On

The printer sends identification signals via the Centronics port (if any is connected) to the host computers Windows operating system. Windows will search for an appropriate driver. (Default setting).

> NETWORK PARAM.

IP address assign

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Fixed IP address

■ A change of this parameter setting forces a printer restart.
This setting activates the parameters "Net mask" and "Gateway address" (see below).

DHCP

IP address is assigned automatically. The assigned IP address is displayed for a moment on the printer display, while the printer is starting.

IP address

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

xxx.xxx.xxx.xxx

Setting range per xxx value: 0 to 255

Change between the digits by pressing the Cut or Feed button; Acknowledge the setting by pressing the Online button. After a change of the IP address, the printer will reset automatically.

Net mask

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

xxx.xxx.xxx.xxx

Setting range per xxx value: 0 to 255

Depending on the set IP address appears a default value.

■ We recommend to use the default value!

Gateway address

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

xxx.xxx.xxx.xxx

Setting range per xxx value: 0 to 255

000.000.000.000 = no gateway is used

Port address

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting range: 1024 to 65535. Default: 9100.

Ethernet speed

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Auto negotioation

The communication speed is selected automatically.

10M half duplexThe communication speed is set to 10 MBit/s *half duplex*.**10M full duplex**The communication speed is set to 10 MBit/s *full duplex*.**100M half duplex**The communication speed is set to 100 MBit/s *half duplex*.**100M full duplex**The communication speed is set to 100 MBit/s *full duplex*.**MAC address**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Displays the MAC address of the CPU board. This address can not be changed in the parameter menu.

FTP server

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The File Transfer Protocol (FTP) server (RFC959) allows access to the internal RAM disk of the printer and, if available, to the memory card. The FTP server is capable of multisesion mode, without evaluating the user name when logging in. The password must match the set password (see below).

- For further information read the user manual, topic section „Advanced Applications“, chapter „Data transmission with FTP“.

On

Switches the FTP server *on*.

Off

Switches the FTP server *off*.

FTP password

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter only appears in production mode.

Input of the FTP server password by means of a connected keyboard or the printers operation panel. Default setting: „novexx“.

Changing the password:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Put in the next character.
4. Acknowledge the new password by pressing the Online button.

WEB server

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The web server may be used to

- read out or change parameter settings of the printer with a web browser
- operate the printer via a web browser.

The WEB server is not multi-session capable, what means that only one user at a time can be logged in.

Requirements for use of the web server function:

- Printer is connected to network
- A valid IP address is assigned to the printer (by the network administrator or by a DHCP server)
- INTERFACE PARA > NETWORK PARAM. > WEB server must be set to „On“.

Starting the web server:

1. Write down the printers IP address (INTERFACE PARA > NETWORK PARAM. > IP address).
2. Start the web browser.

3. Insert into the address field:

http://[IP address without leading zeros]

Example: IP address = 144.093.029.031

Input: http://144.93.29.31

4. Click „Login“.

5. Type in user name (admin) and password (admin).

If the login was successful, you will find the following menu items at the left window margin:

Menu item	Function
Home	Jump to the home page
Logout	Interrupt the connection to the printer
Parameter	Opens the parameter menu. By clicking on submenus and parameters, those can be opened and the parameter settings be changed.  Some parameters force the printer to reset, if their setting is modified by means of the operation panel. If the parameters are changed via the web server, this doesn't happen automatically. Therefore, the modifications only become effective after the next printer restart. A restart can be triggered remote in the „Display view“.
Display view	Opens the display operation panel. Enables remote operation of the printer.
Download	Opens another browser window with the URL of the FTP server. For more information read the description of INTERFACE PARA > NETWORK PARAM. > FTP server.
Help	Help texts

[5] Functions of the web server.

On

Switches the web server *on*.

Off

Switches the web server *off*.

WEB display refr

(WEB display refresh)

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

 Only appears, if INTERF.PARAM > NETWORK PARAM. > Time client = „On“.

Automatic updating of the web browser display. The setting determines the time in seconds between two updates.

 Setting 0 = „no automatic updating“.

xx s

Setting range: 0 to 20; Default setting: 5

WEB admin passw.

(WEB administrator password)

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Modifying the password for web server access as admin.

Default setting: „admin“

■ The user name is also „admin“.

■ If the user logs in as admin to the web server, he/she has access to all parameters, which are *not* marked with the footmark „only in production mode“.

Changing the password at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

■ Alternatively, the password can be typed in using a keyboard, or via the web server.

WEB supervisor p.

(WEB supervisor password)

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Modifying the password for web server access as supervisor.

Default setting: „supervisor“

■ The user name is also „supervisor“.

■ If the user logs in as supervisor to the web server, he/she has access to *all* parameters.

Changing the password at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

■ Alternatively, the password can be typed in using a keyboard, or via the web server.

WEB operator p.

(WEB operator password)

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Modifying the password for web server access as supervisor.

Default setting: „operator“

■ The user name is also „operator“.

■ If the user logs in as operator to the web server, he/she has access to a selection of parameters, which are necessary for settings during labelling operation.

- For details see paragraph [64-xx operator parameters](#) on page 15 or paragraph [DPM / PEM / ALX 92x operator parameters](#) on page 20.

Changing the password at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.

■ Alternatively, the password can be typed in using a keyboard, or via the web server.

Time client

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Loads the current time from a time server.

Off

The time client is switched off.

On

The time client is switched on. The time is loaded with the frequency set under [Sync. interval](#) from a time server with the IP address [Time server IP](#).

If there is no valid time server response within 2 s after system start, an error message appears:

Status num:	9040
No Time Server	



With the time client service, the current date and time can be obtained from a time server using RFC868 time protocol on UDP port 37. For this purpose, a time server IP address needs to be given. Date and time are initially requested at start up an optional in a setable update interval during operation time. It is also stored in the internal real time clock. There is no time offset or daylight saving hour, so the server time must exactly match the local time of the printer.

Time server IP

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

IP address of the time server.

Only appears if INTERFACE PARA > NETWORK PARAM. > Time client = „On“.

xxx.xxx.xxx.xxx

Enter the IP address following the xxx.xxx.xxx.xxx schema.
Setting range for each xxx value: [0...255].

Sync. interval

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Determines the frequency for time requests.

Only appears if INTERFACE PARA > NETWORK PARAM. > Time client = „On“.

xxxx

Setting range: [0...9999] s; Default setting: 3600 s.

Time zone

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Correction of the time received by the time server by a value expressed in hours (hh) and minutes (mm).

Only appears if INTERFACE PARA > NETWORK PARAM. > Time client = „On“.

+/- hh:mm

Setting range: [-12:00...+12:00]; Default setting: 00:00; Step width: 00:30

DHCP host name

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Host name of the printer. Default setting: „Device name“ + the last 3 figures of the MAC adress.

Typing in the host name at the operating panel:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears.
Acknowledge by pressing the Online button.

Valid characters: A-Z, a-z, 0-9, -

3. Type in the next character.
4. Acknowledge the new password by pressing the Online button.
Alternatively, the password can be typed in using a keyboard, or via the web server.

WLAN SSID

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

A Service Set Identifier (SSID) is the identification of a radio frequency network, which is based on IEEE 802.11.

Each WLAN owns a configurable SSID, by which the network is identified. The SSID is the name of the network.

The SSID character string is configured in the base station (Access Point) of the WLAN. It must be also configured on all clients, which are supposed to access the access point. The SSID is attached uncoded to all packets to identify them as part of that network.

xxxxxxxxxxx...

The SSID consists of a maximum of 32 alphanumeric characters. Default setting: „novexx“

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#) .

WLAN WEP

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

WEP („Wired Equivalent Privacy“) is an encryption scheme for WLAN.

Off

(Default setting) Communication with the host is *not* encoded.

64Bit key

Communication with the host is encoded using 64 Bit WEP encoding.

128Bit key

Communication with the host is encoded using 128 Bit WEP encoding.

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#) .

WLAN default key

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

Selection of the encryption key, which is used for packet transmission.

x

Setting range: 1-4; Default setting: 1

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#) .

WLAN 64Bit key 1

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

Definition of an encryption key for packet transmission. The key will be used, if it is enabled under **INTERFACE PARA > NETWORK PARAM. > WLAN default key**.

xxxxxxxxxx...

Character string of 26 hexadecimal characters. Default setting:
„123456789abcd123456789abcd“

Admissible characters: A-F, a-f, 0-9

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#) .

WLAN 64Bit key 2

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 64Bit key 1](#)  on page 70.

WLAN 64Bit key 3

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 64Bit key 1](#)  on page 70.

WLAN 64Bit key 4

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 64Bit key 1](#)  on page 70.

WLAN 128Bit key 1

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

Definition of an encryption key for packet transmission. The key will be used, if it is enabled under **INTERFACE PARA > NETWORK PARAM. > WLAN default key**.

xxxxxxxxxx...

Character string of 26 hexadecimal characters. Default setting:
„123456789abcd123456789abcd“

Admissible characters: A-Z, a-z, 0-9

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#) .

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

WLAN 128Bit key 2

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 128Bit key 1](#) on page 70.

WLAN 128Bit key 3

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 128Bit key 1](#) on page 70.

WLAN 128Bit key 4

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

- See parameter [WLAN 128Bit key 1](#) on page 70.

WLAN com quality

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

This value represents the signal-to-noise ratio (SNR) of the connection. The value is shown in % and is a measure for the connection quality.

x%

WLAN communication quality in %

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#).

WLAN signal lev.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in WLAN CF-card

Shows the WLAN average signal level in percent. This value suits for optimizing the location of the printer or access point to get the best network connection.

x%

Signal level in %

- Detailed information about using the WLAN feature: read the user manual, topic section [Advanced Applications](#).

> OPTIONS

OLV Option

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

OffOLV-Option is *not* activated (OLV = Online Verifier).**Serial Com1**

Com1 is activated for OLV application.

■ This setting option is only visible, if Com1 is not activated for any other option.

Serial Com2

Com2 is activated for OLV application.

■ This setting option is only visible, if Com2 is not activated for any other option.

RFID Option

64-xx	ALX 92x	DPM
-------	---------	-----

OffRFID-Option is *not* activated (RFID = Radio Frequency Identification).**Serial Com1**

This setting option is not relevant for application of the RFID option.

■ This setting option is only visible, if Com1 is not activated for any other option.

Serial Com4

Com4 is activated for application of the RFID option (Setting for 64-xx Gen 3, DPM Gen 3, ALX 92x Gen 3).

■ This setting option is only visible, if Com4 is not activated for any other option.

StandAlone Input

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Defines an interface for data input in standalone mode.

■ Interfaces are only selectable, if installed and not used by another function (e. g. as data interface). If `INTERFACE PARA >EASYPLUGINTERPR > Print interface` = „Automatic“, all interfaces besides Com3 are blanked out.

None

No data input via interface.

Serial Com1

Com1 is activated for data input in standalone mode.

Serial Com2

Com2 is activated for data input in standalone mode.

Serial Com3

Com3 is activated for data input in standalone mode.

TCP/IP SOCKET

Ethernet interface is activated for data input in standalone mode.

#VW/I Interface

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Easyplug	Defines the output interface belonging to the Easy-Plug command #VW/I. (Default) Interface that is defined in <code>INTERFACE PARA >EASYPLUGINTERPR > Print interface</code> as input interface for print data.
Serial Com1	Serial interface Com 1. ■ Only available for selection, if the interface is not occupied by another function.
USB	USB interface ■ Only available for selection, if the interface is not occupied by another function.
TCP/IP SOCKET	Ethernet interface ■ Only available for selection, if the interface is not occupied by another function.
Serial Com3	Serial interface Com 3. ■ Only available for selection, if the optional I/O board is installed and if the interface is not occupied by another function.

> DRIVEASSIGNMENT

- For detailed information read the Easy-Plug manual, topic section [General Notes, Definitions and Command Overview](#) □, chapter „Drive names“.

Drive C

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

	Assigns drive letter C: to one of the card slots.
None	C: is not assigned
CompactFlash	(Default for CPU boards <i>up to</i> index A6621-06) C: is assigned to the standard CF card slot (left slot at the 64-xx)
SD card	(Default for CPU boards with index A6621-07 <i>or higher</i>) Assigns drive letter C: to the SD card slot
USB-stick	C: is assigned to the USB host port.

Drive E

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

	■ Only with CPU boards <i>up to</i> index A6621-06
	Assigns drive letter E: to one of the card slots or USB ports.
None	E: is not assigned
CompactFlash	E: is assigned to the standard CF card slot (left slot at the 64-xx)

- SD card

(Default) Assigns drive letter E: to the SD card slot
- USB stick

E: is assigned to the first detected USB host connector

Drive F

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Assigns drive letter F: to one of the card slots or USB ports.

- None

F: is not assigned
- CompactFlash

F: is assigned to the standard CF card slot (left slot at the 64-xx)
- SD card

Assigns drive letter F: to the SD card slot
- USB stick

(Default) F: is assigned to the first detected USB host connector

SYSTEM PARAMETER

Speed unit

	ALX 92x	DPM	PEM
--	---------	-----	-----

The print or feed speed can optional be set in mm/s or in inch/s.

mm/s

Set speeds in mm/s

Inch/s

Set speeds in inch/s (default)

Cover open error

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Defines, when the status message „Cover open“ appears:

PrintStatus: 5003
Cover open

Immediately

(Default) Status message appears immediately after opening the hood.

If material feed

(Default for 64-xx) Statusmessage appears if the hood is open and material feed is supposed to start.

Foil end warning

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting of a limit diameter for the ribbon roll. If the ribbon roll diameter falls below the set value, the displayed message changes from...

ONLINE X JOBS ...to...

FOLIE X JOBS ...while the display is blinking.

64-xx, DPM / PEM, ALX 92x:

Additionally to the display message, a signal is set at the (optional) USI.

- For details refer to the parameters [DP INTERFACE > Ribbon signal](#) and [SERVICE DATA > OPERATION DATA > Foil diameter](#)

x.xx mm

Setting range: 25.4 to 50.0 mm; Unit interval: 0.1 mm;
Default setting: 25.4 mm

Foil warn stop

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Off

(Default setting) Printer does *not* stop in case of a „Foil end warning“.

On

If a „Foil end warning“ occurs, the printer stops after the current label and shows the status message:

PrintStatus: 5110
Foil low

- Press the online button to acknowledge the message, then the feed button to continue printing.

Disp. Cnt. Reset

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Dispense Counter Reset

■ Only with SYSTEM PARAMETER > Periph. device = „Dispenser“

No

The dispense counter is not reset (default setting)

Yes

The dispense counter is reset

Autom. dot check

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Automatic dot check

Checks the print head for defective dots. The dot check can be carried out either after powerering on the printer or in print pauses between print jobs.

Continuous

The dot check is carried out in pauses between print jobs. If a new print job arrives bevor the dot check is done, the print job will be prefered. The printer then interrupts the dot check and proceeds later with the next "opportunity" at the last tested dot.

The parameters *Early dottest*, *Latest dottest*, *Dottestarea from*, *Dottestarea to* determine the conditions under which the dot check is executed.

- Those parameters show up only,
- if "continuous" has been selected
 - after the following automatic restart of the printer!

Power on only

The dot check is proceeded immediately after powering on the printer. During testing appears the – blinking – display message:

OFFLINE 0 JOBS
Head dot test

Off

The automatic dot check is switched off.

Early dottest

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

■ Only if SYSTEM PARAMETER > Autom. dot check = „Continuous“.

Earliest dot check

Determines the number of printed labels, after which the dot check should at the earliest start.

Example:

The setting 3 means that the dot check starts in the first printing pause after three printed labels. After a successfully executed dot check starts the next dot check again in the first pause after three printed labels.

after x label

Setting range: 1 to 9999; Unit interval: 1; default setting: 10

Latest dottest

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if **SYSTEM PARAMETER > Autom. dot check** = „Continuous“.

Determines the number of printed labels, after which the dot check must be finished.

Example:

The setting 5 means that the dot check has to be finished at the latest after the fifth printed label. If necessary, printing is interrupted after the fifth label. After a successfully proceeded dot check has the next dot check again to be finished after five labels.

after x label

Setting range: 1 to 9999; Unit interval: 1; default setting: 0

The setting "after 0 label" means, that the dot check will possibly be never finished! – given a high utilization of the printer (A printing pause will never be forced).

The value for "Latest dottest" must be set higher than the value for "Early dottest"! (exception: value 0).

Dottestarea from

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if **SYSTEM PARAMETER > Autom. dot check** = „Continuous“.

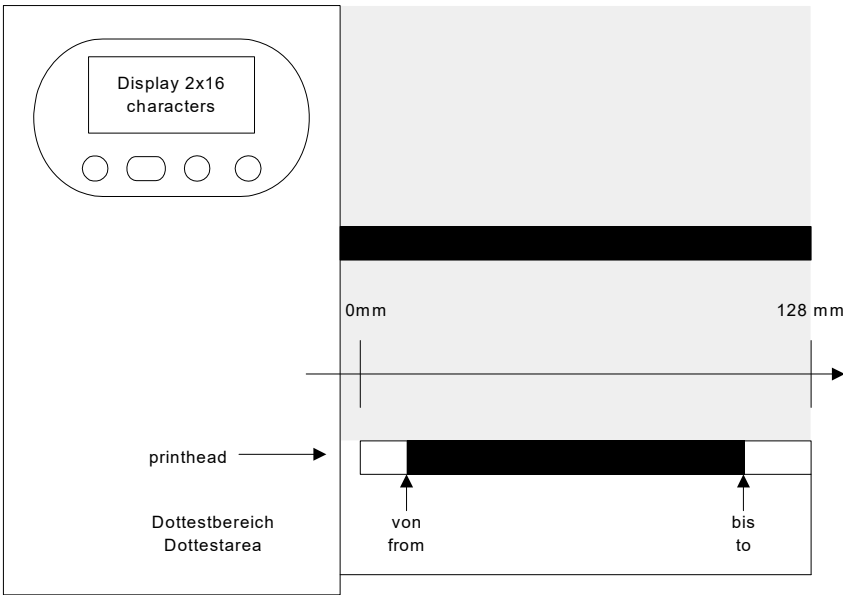
Limitates the area of a print head, in which the dots are checked. The parameter sets the lower border of the dot check area. The value equals the distance to the left print head end in mm, looked at the print head from above (see Fig. 13).

x mm

Setting range: refer to Tab. 3; Unit interval: 1; default setting: 0 mm

Printer type	Setting range in mm	No. of dotss
64-04 / Chess 4	0-107	1280
64-05 / Chess 5	0-128	1536
64-06 / Chess 6	0-160	1920
64-08 / Chess 8	0-214	2560

[6] Setting range for the dot check, depending on the print head width. Right column: Total number of dots of the print head.



[16] Dot check area (=Dottestarea) of the printer (schematic).

Dottestarea to

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

➡ Only if `SYSTEM PARAMETER > Autom. dot check = „Continuous“`.
Upper border of the dot check area. The value sets the distance in mm to the left print head end, looked at on the print head from above.

x mm

Setting range: refer to Tab. 3; Unit interval: 1; Default setting: 0 mm

Print Interpret.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Easyplug	Printjobs written in the Easy-Plug command language can be interpreted.
Lineprinter	Lineprinter (or similar to Lineprinter), print-out of the print command.
Hex Dump	Print-out in hexadecimal format. In Lineprinter and Hex Dump, commands are printed out in the form of a list with the character set 12. ➡ When setting Lineprinter or Hex Dump, Easy Plug commands which have not yet been processed are deleted!
ZPL Emulation	Printjobs written in the ZPL II ^{®1)} command language („ZPL“) can be interpreted. ➡ Firmware loading requires changing into EasyPlug first.
EasyPlug/ZPL Emu	Printjobs in EasyPlug and ZPL can be interpreted.

1) ZPL II is a registered trademark of ZIH Corp.

■ Use this setting only for simple printjobs. Complications are more likely with this setting.

Character sets

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting the character set:

- **16bit:** UTF-8 coding.
- **8bit:** Choose between IBM and ANSI character set.
- **7Bit:** Additionally to the IBM and ANSI character sets, some country specific character sets are provided, which have some characters allocated differently (see table below)

■ The country specific character sets are only suitable for older 7bit applications!

Decimal	35	36	64	91	92	93	94	96	123	124	125	126	>127
ASCII	#	\$	@	[	\	]	^	'	{		}	~	
UTF-8	#	\$	@	[	\	]	^	'	{		}	~	print
ISO 8859-2	#	\$	@	[	\	]	^	'	{		}	~	print
ANSI (CP 1250)	#	\$	@	[	\	]	^	'	{		}	~	print
ANSI (CP 1252) ^a	#	\$	@	[	\	]	^	'	{		}	~	print
IBM	#	\$	@	[	\	]	^	'	{		}	~	print
Special	f	¢	blank	blank	¼	½	blank	blank	«	•	»	±	blank
Norway	#	\$	@	Æ	¥	Å	^	'	æ	¢	å	~	blank
Spain	#	\$	@	i	Ñ	Ç	^	'	¿	ñ	ç	~	blank
Sweden	#	•	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü	blank
Italy	Š	\$	§	°	ç	é	^	ù	à	ò	è	`	blank
Germany	#	\$	§	Ä	Ö	Ü	^	'	ä	ö	ü	ß	blank
France	£	\$	à	°	ç	§	^	'	é	ù	è	~	blank
United Kingdom	£	\$	@	[	\	]	^	'	{		}	½	blank
USA	#	\$	@	[	\	]	^	'	{		}	~	blank
blank = space, print = printable													

[7] Country settings for applications, which base on 7bit ASCII code.

a) Covering ISO 8859-1.

- For complete tables of all fixfonts characters available with setting "IBM" refer to the User Manual, topic section "Internal Fonts". You also find there a comparison of the IBM and ANSI character sets.

Character filter

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Character >= 20Hex

Filter function is activated. Characters smaller than 20H are filtered out of the data flow.

All character

Filter function is deactivated. Characters smaller than 20H are treated as normal characters.

Light sens. type

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Light sensor type

The optional reflex photoelectric switch for labels with reflecting length markings, or the normal factory-fitted photoelectric switch for labels with transparent or register gaps (self-adhesive labels), must be defined according to the application.

Full Size

Full Size photoelectric switch (Adjustment range is the material width).

Reflex

Reflex photoelectric switch (for reflecting markings)

Punched

Transparent photoelectric switch (for gaps)

Head-sensor dist.

(Distance between printline and label sensor)

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode or if a value > 0 is set.
Printhead-sensor distance

Special function for setting non-standard punch sensors. Such sensors can be applied in special application devices ("Nistan"). The value x is the distance between thermal edge and punch sensor in millimeters.

x mm

Setting range: 0 to 400 mm

A „non standard sensor“ must be installed and connected instead of the regular punch sensor.

0 = disabled (the regular punch sensor is used).

Ribbon autoecon.

64-xx	DPM	PEM	ALX 92x
-------	-----	-----	---------

Ribbon automatic economy mode („ribbon saving“)

Generally can be chosen between thermal transfer printing and thermal direct printing. It is necessary to select the type of printing in order to be able to switch over the ribbon end detection.

Switching on the Ribbon automatic economy mode in *thermal transfer* mode interrupts the ribbon feed between print periods. This saves ribbon, particularly with long labels with a minimum print area. The additional feature in turbo mode is that a higher feed speed is used between the print periods. The feed speed is set in **PRINT PARAMETERS > Feed speed**.

With the setting „Thermal/headlift“ activated in *thermal direct* mode, the printhead is lifted between print periods. This reduces printhead abrasion.

■ The settings „On“, „Thermal/headlift“ and „On Turbo“ should only be activated with unprinted areas from at least approx. 10 mm in length.

Thermal/headlift	Thermal direct printing with printhead lifting
Thermal printing	Thermal direct printing (Ribbon-end-LS switched off)
On	Thermal transfer printing with ribbon automatic economy mode on
Off	Thermal transfer printing with ribbon automatic economy mode off
On Turbo	Thermal transfer printing with turbo ribbon automatic economy mode on

Ribbon economy limit

64-xx	DPM	PEM	ALX 92x
-------	-----	-----	---------

The ribbon economy limit determines the length of the printing free area on the label from that on the ribbon economy automatic should be activated.

■ Only with **SYSTEM PARAMETER > Ribbon autoecon.** = „On“.

x,xx mm	Setting range: xx up to 100,0 mm; Unit interval: 0,1 mm (the initial value depends on the feed speed) Default-value: 5.0 mm
---------	--

Head down lead

64-xx	DPM	PEM	ALX 92x
-------	-----	-----	---------

Defines the distance the printhead has to touch down *before* the first printed dotline. The function improves the print quality when entering a printed area with activated ribbon autoeconomy function.

■ Only with **SYSTEM PARAMETER > Ribbon autoecon.** = „On“.

■ Only in production mode or with a setting of x > 0.

x.x mm	Setting range: [0.0...10.0] mm; Default setting: 0.0 mm; Step width: 0.1 mm
--------	---

Feed mode

64-xx	DPM	PEM	ALX 92x
-------	-----	-----	---------

Head up	(Default) The printhead is <i>lifted</i> during label material initialization and label feeding.
Head down	The printhead is <i>down</i> during label material initialization and label feeding. For certain critical label materials, this setting can result in a better impression accuracy on the first label compared to the following labels.

Turn-on mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Operating mode of the printer after it has been switched on.

Online

Printer starts in on-line mode.

Offline

Printer starts in off-line mode.

Standalone

Printer starts in standalone mode.

Error reprint

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

If an error occurs while a label is printed, the last printed label is reprinted. For label layouts containing variable data (for example, count fields), disable the reprint function.

On

Reprint in error cases (default setting)

Off

No reprint in error cases.

EasyPlug error

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Handling of errors caused by faulty Easy-Plug commands.

Tolerant handl.

The label is printed, after the Easy-Plug/Bitimage error was acknowledged (default setting).

Strict handling

The Easy-Plug command, which caused the error, is displayed after approx. 2 seconds in the lower display line. The displayed text is up to 30 characters long and is scrolled automatically.

If a single character caused the error, this character is marked with „>> <<„ in the display text, to facilitate the detection.

By pressing the cut button, the display can be toggled between error message and Easy-Plug command text.

After acknowledging the first occurred Easy-Plug error, the printjob and the spooler are deleted (as by #!CA). This prevents the printing of labels with format errors.

Single job mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

In single job mode (also stop mode) the printer stops after every job and waits until the operator restarts the print process.

Off

Single job mode is switched off (default setting).

On

Single job mode is switched on. The printer always displays "Start next job", before starting a new print job. This requests the user to acknowledge by pressing the Online button.

Head resistance

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

For optimum print quality, the individual print head resistance of the thermo head employed in the device must be set once with this parameter.

When replacing the print head, the resistance value of the print head (to be read off from the print head) must be entered again.



CAUTION!

Entering a false value can damage the print head.

→ Read off the correct value from the print head and set it accordingly.

xxxx Ohm

■ The value set here remains when the factory settings are carried out.
Setting range: 1000 to 1500 Ohm; Unit interval: 1 Ohm

Setting the print head resistance:

Setting:

1. From the print head, read off the resistance value to be set and make a note of it (1000 to 1500).
2. In off-line mode press the Prog. button, display: *PRINT INFO*.
3. Press the Cut button until *SYSTEM PARAMETER* is displayed.
4. Press the Online button, display:

SYSTEM PARAMETER
Foil end warning

5. Press the Cut button until the following is displayed:

SYSTEM PARAMETER
Head resistance

6. Press the Online button, set value is displayed.
7. Set the previously noted resistance value of the print head using the Feed and Cut buttons.
8. Press the Online button to confirm the set value.
9. Press the Prog. button to return to the display *OFFLINE 0 JOBS*.

Temp. reduction

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Reduction in the print head temperature

The parameter `SYSTEM PARAMETER > Temperature reduct.` allows the power supply to be reduced in the event of an increase in the print head temperature, thereby ensuring an evenly good print image.

xxx%

Setting range: 0 to 100 %; Unit interval: 5%

The following setting alternatives are available:

- 0%: No temperature reduction.
 - xx%: Up to xx% temperature reduction with a hot print head.
 - Default setting: 20%.
- For further information refer to the user manual, topic section „Advanced Application“, chapter „Printing with Temperature Compensation“

Voltage offset

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The voltage offset increases the head voltage and therefore the head temperature which e.g. was set by Easy Plug command (HV).

xx%

Setting range: 0 to 30%; Unit interval: 1%; Default setting: 0%

Expand Logo

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

■ Only with 8-Dot emulation.

Off

Logos are printed in normal size.

On

Logos are printed enlarged.

Miss. label tol.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Missing label tolerance

The maximum search path for gaps which cannot be found can be varied. In cases of difficult gap detection (i. e. minimum variation in the light transparency, gap to label), shortening the search path is to be recommended. Label loss resulting from gaps not being detected can be reduced in this way. Printing does not take place during the search process.

xx

Setting range: 0 to 50; Unit interval: 1

- Example 0 (Zero label length):
A gap must be found after a printed label otherwise an error message is given. This setting is for detecting every missing label.
- Example 5 (Five label lengths):

A gap must be found after a maximum of 5 label lengths otherwise an error message is given.

Gap detect mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

After one of the following events, the printer must always search for the punch, that is initialize the label material:

- After switching the printer on
- After changing the label material

Manual

The operator has to initialize the material the first time always manually by pressing the feed key several times.

Autom. Forward

(Default for printers) The material initialization is always done automatically, if necessary. There is no backward movement of the material during the initialization.

Autom. feed back

▮▮▮▮ Only 64-xx Dispenser, ALX 92x, DPM/PEM

(Default for those devices) The material initialization is always done automatically, if necessary. The label material is moved forward and backward during the initialization. The stretch of backward movement can be set with parameter `SYSTEM PARAMETER > Max InitFeedback` (see below).

Foil stretching

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

▮▮▮▮ 64-xx: Only standard printers (without dispenser).

After stopping and restarting the print process, the print quality can fall off for a short stretch in the area printed first after the restart. The reason for this behaviour is the foil tension, which relaxes slightly due to the stopping.

The foil stretching function feeds the label material backwards for the defined stretch before restarting the print process. Afterwards, feeding starts before the printing. This stretches the foil before printing starts.

- Advantage: High print quality from the beginning
- Disadvantage: Higher foil consumption; lower label rate

Feedback = xx mm

Setting range: 0 to 20 mm; Step width: 1 mm; Default setting: 5 mm

Head lift autom.

PEM	ALX 73x (PMA)
-----	---------------

Some applications with high print speed and/or small labels have shown that the imprint accuracy differs, depending on if there is a print stop between two labels or not. The function „Head lift automatic“ lifts the printhead between all labels for a short time and thus provides a more regular imprint accuracy.

▮▮▮▮ The function reduces the label throughput, because each head lift needs about 80 ms time.

Off	Head lift automatic is switched off.
On	Head lift automatic is switched on. The printhead is lifted automatically after each printed label.

Mat.end detect.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Material end detection.

The material end detection can be deactivated for processing labels with gaps longer than 15 mm, or if using material with a high fluctuation in light transparency (Status message „5002 material end“ is displayed even though material is present).



CAUTION!

Soiling or damaging the print roller.

- Endless (= not converted) material should not be processed when the material end detection is deactivated (otherwise, printing is continued on the print roller after material end).

Reflex	Material end detection by means of a reflex sensor.
Transparent	Material end detection by means of a transmission sensor.
Off	No material end detection.

Periph. device

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

After installation, options must be selected under "Peripheral device" in order to be assured of the corresponding sensor queries and printer reactions.



CAUTION!

Selecting an incorrect option can lead to malfunctions or damage.

None	No peripheral device is installed.
Cutter	Sets the printer firmware to the cutter option. Selection permits access to the cut parameters.
Rewinder	Sets the printer firmware to the rewinder option. Selection permits access to the rewinder setting parameters.
Tear-off edge	(Default setting) Sets the printer firmware to the tear-off edge option. The punch is fed forward to the tear-off edge.
Dispenser	Setting for 64-xx dispenser version.

■ (ALX 92x/DPM) Parameter is displayed in production mode only.

■ (64-04/05) After selecting this value, the parameter **SPECIAL FUNCTION > Disp. Head Offs.** appears automatically, if the parameter **SPECIAL FUNCTION > Printhead type** is set to „KCE 4 Inch“.

- See parameter [Disp. Head Offs.](#) on page 131.

- See parameter [Printhead type](#) on page 130.

Disp. with LTSI

Setting for operation of a LTSI applicator, see [Technical Manual LTSI](#)

Singlestartquant

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Determines the label quantity, which will be printed after a start signal.

xx

Setting range: 1 to 10; Unit interval: 1; Default setting: 1

Head disp dist

(Distance printhead - dispensing edge)

64-xx	ALX 92x	DPM
-------	---------	-----

64-xx: 64-xx dispenser only and only with [SYSTEM PARAMETER >](#)
Dispensing edge = „User defined“

For setting the distance between printhead and dispensing edge.

xxx.x mm

Setting range: 10.0 to 100.0 mm; Unit interval: 0.1 mm; Default setting: 20 mm

External signal

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

The parameter determines, if and how an incoming signal at the - optional - single start connector will be interpreted.

Off

Signal interpretation disabled.

Singlestart

The signal triggers the printing of a single label. This setting may be used e.g. for printing single labels by means of a foot switch.

Stacker full

The signal triggers the display of a status report and stops the printer. This setting may be used when using a stacker (= stacker full signal).

- Detailed information about using start signals can be found in the user manual, topic section „Advanced Applications“, chapter „Printing with start signal“, [Settings in the parameter menu](#)

Start print mode

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Selecting a print mode. Depending on the selected mode, a start signal at the single-start input will be interpreted differently.

- Information about using the start signal: see user manual, topic section „Special applications“, chapter „Printing with start signal“.

Pulse fall/ris	The printing of a label is triggered by a low-high-change as well as by a high-low-change of the start signal. The printing occurs only after the set delay time.
Level high activ	Labels are being printed as long as the start signal is held high.
Pulse rising	The printing of a label is triggered by a low-high-change of the start signal. The printing occurs only after the set delay time.
Level low active	Labels are being printed as long as the start signal is held low.
Pulse falling	(Default setting) The printing of a label is triggered by a high-low-change of the start signal. The printing occurs only after the set delay time.

Apply key

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

■ 64-xx: Only if **SYSTEM PARAMETER > Periph. device** is set to „Dispenser“.

■ Parameter is displayed in production mode only.

■ Only if **SYSTEM PARAMETER > External signal** is set to „Singlestart“

On (Default) The application can be triggered by pressing the cut respectively apply key.

Off Triggering the application by pressing the cut/apply key is *not* possible.

Print contrast

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

xxx% Setting range: 1 to 110%; Unit interval: 1; Default setting: 60



CAUTION!

The parameter **Print contrast** affects directly the life duration of the printhead. It counts: „The higher the setting of **Print contrast** is, the lower is the life duration of the printhead“. This counts even more for settings above 100%. Therefore mind:

→ Always choose the lowest possible setting necessary to produce an acceptable print result.

Ram disk size

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

A part of the printer memory can be identified as a RAM disk. The RAM disk can be used in the same way as the Compact Flash Card, e.g. for storage of logos or fonts.

With the parameter **Ram disk size**, the customer can set the size of the RAM disk to his needs. Be aware, that RAM disk memory is not available for print picture buildup. Use of much RAM disk memory reduces the picture buildup rate of the printer.

xxxx KBytes

Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

Setting range: 128 KBytes to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 512 KBytes.

- See also parameter [PRINT INFO > Memory status](#).

Font downl. area

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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If speedo-fonts are supposed to be used, they have first to be copied to a reserved RAM disk area. Use parameter „Font downl. area“ to reserve the RAM disk area in the required size.

The size of the required RAM disk area depends on the size of the font files to be loaded.

Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

There are two ways to copy the font files to the RAM disk:

- Copy from CompactFlashcard:
The font files must be placed in a folder named \fonts on the CompactFlashcard during system startup. The files must be named fontxxx.spd (xxx = No. from 200 up to 999).
- For details refer to the „Plugin-card manual“, topic section „Application“, paragraph [CF/SD-cards](#).
- Copy via Easy Plug command #DF (download file).
- More information about the #DF command: See manual „Easy Plug“, topic section [Description of Commands](#).

xxx KBytes

Setting range: 128 KBytes to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 256 KBytes

Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

Free store size

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

By setting this parameter, a part of the memory is reserved, which the printer firmware can use if necessary (dynamic memory allocation). If this memory area is dimensioned too small, the printer firmware can not work and the error message „8856 Free store size“ shows up.

The more memory is allocated using this parameter, the less memory is available for print jobs.

xxx KBytes

Setting range: 4 MB to the maximum size, which depends on the memory configuration and allocation of the printer; Unit interval: 128 KBytes; Default setting: 4 MB.

- ➔ A good advice is to increase the set value step by step, starting with the minimum of 4 MB, until the status message 8856 ("Free store size", what means the memory area is low) does no longer appear during data conversion.
- Use with the Easy Plug command #YG, see manual [Easy Plug](#) .
- See parameter [Memory status](#)  on page 31.

Print info mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Structure option for info printouts.

Par. values right

Setting for 100 mm material width. The parameter values are printed on the right side of the parameter names:

Parameter name: Value

Par. values left

Setting for 100 mm material width. The parameter values are printed on the left side of the parameter names:

Value: Parameter name

Compact right

Setting for 50 mm material width. The parameter values are printed on the right side of the parameter names:

Parameter name: Value

Compact left

Setting for 50 mm material width. The parameter values are printed on the left side of the parameter names:

Value: Parameter name

Reprint function

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Off

(Default setting) Reprinting is not possible.

On

The last printed label can be reprinted by pressing the feed button in online mode, if the printer is not printing at that moment.

Language

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting the display language.

Japanese

Chinese

⚠ Not all chinese display texts are translated. Not translated texts are displayed in english.

Czech

Russian

Turkish

Polish

Italian

Danish

Dutch

Spanish

French

English

German

Keyboard

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Setting the keyboard layout country version for standalone operation.

Polish
Swedish
Finish
Danish
Spanish
French
English
German

Signal / buzzer

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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On

Tone signal activated

Off

Tone signal deactivated

Access authoriz.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Access authorization

Limits the access either to all printer functions (Power-up code) or only to the parameter menu (user or supervisor mode). Changed settings become active after the next switch-on.

Key codes

Regardless when the code is prompted, can three different key codes be typed in tab. 8.

Enter code

Entering a key code: Type the corresponding buttons of the control panel in succession. A valid key code switches the printer into the appropriate mode.

Mode	Key code	Impact
User	2x Cut ^a , Feed, Online	Access only to the submenus PRINT INFO and SERVICE DATA
Operator	Cut, Online, Feed, Prog	Access to reduced parameter menu
Supervisor	2x Online, Feed, Cut, 2x Online	Access to all parameters except production parameters
Production	Cut, Online, Feed, Cut, 3x Online	Access to all parameters

[8] Permissible key codes.

a) With DPM, PEM, ALX 92x press Apply-key instead.

**CAUTION!**

Production mode: Input errors to certain parameters can make the printer inoperable or can damage it.

→ The production code may only be applied by *trained service technicians*.

Especially service technicians may use the direct access into production mode, even if the parameter *Access authoriz.* is set to „Off“, what means that no password will be queried at all. To do so, proceed as follows:

1. Switch printer off.
2. Switch printer on, simultaneously press the Feed+Prog-key until the printer type is displayed.

After the printer was powered up, the key code will be queried:

3. Enter the production code.

Possible Settings**Off**

Password interrogation switched off (default)

Power-up code

Activates the password interrogation directly after switching the printer on.

After the input of a valid key code, the printer switches into offline mode. Depending on the entered key code, the printer starts in user, supervisor or production mode.

User

Activates the password interrogation when accessing the parameter menu.

- The printer is in the offline mode after switch-on
- Change to the online mode is possible without restriction
- To reach the parameters-menu, enter a valid key code
- Valid key codes: all

Operator

Access to reduced parameter menu; contains only parameters which are necessary for daily use of the printer.

- For details see paragraph [64-xx operator parameters](#) on page 15 or paragraph [DPM / PEM / ALX 92x operator parameters](#) on page 20.

Supervisor

As setting „User“, with different valid key codes:

- Valid key codes: Supervisor, Production

User auto start

Printer starts without password interrogation. Only the menus *PRINT INFO* and *SERVICE DATA* are accessible.

Realtime clock

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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The realtime clock provides actual date and time. Those data can be processed using the Easy-Plug #YC, #YS or #DM commands.

Realtime Clock dd.mm.yyyy hh:mm

dd=Day, mm=Month, yyyy=Year, hh=Hour,
mm=Minute (Example: 19.02.2001 14:41)

Setting date / time:

1. Press the CUT(Apply) button repeatedly, until the digit blinks which you want

to alter.

2. Set the intended value to the digit by pressing the FEED button (repeatedly).
3. Repeat steps 1 and 2 until date / time is set correctly.
4. Press the ONLINE button.

■ Press the ESC button to leave the parameter without altering the setting.

Ribbon pre Start

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only visible in production mode

This parameter helps to solve possible printing problems with activated foil saving function. In rare cases, white areas may appear on the printout shortly after the print head has lowered again. By setting this parameter, the film movement will start a little bit earlier and thus solve this problem.

xxx ms

Setting range: 0 to 100 ms; step width: 1 ms; Default setting: 0 ms

Material feed

ALX 92x	DPM
---------	-----

Suppresses backwards material feeding.

For-/backwards

Standard setting; material is fed forwards and backwards.

Only forwards

The label material is only fed forwards. Printjobs, which contain commands for using R 1:1 or N 1:1 mode, are automatically printed in batch mode. The batch mode is modified in a way, that the label following after a printjob is not drawn back under the printhead, but is ejected in forward direction. The effect is, that one label stays unprinted between two succeeding printjobs.

Print mode	Feed direction following label	
	„for-/backwards“	„Only forwards“
Batch	<-->	-->
R 1:1	<-->	Batch ^a
N 1:1	<-->	Batch ^a

[9] Suppression of the backward movement with the setting „Only forwards“.
 <--> = Material feeding in both direction; --> = Material feeding only forwards.

a) The backwards movement is suppressed during initialization.

DISPENSER PARA

■ This menu appears only, if **SYSTEM PARAMETER > Periph. device** is set to „Dispenser“.

Head disp dist.

(Distance printhead - dispensing edge)

	ALX 92x	DPM
--	---------	-----

xxx,x mm

Setting range: 10.0 to 200.0 mm; Step width: 0.1 mm; Default setting: 20 mm

Dispense Mode

64-xx	ALX 92x	DPM
-------	---------	-----

Governs the run of the print-dispense procedure.

■ Only if **SYSTEM PARAMETER > Periph. device** = „Dispenser“.

■ The ribbon autoeconomy function can only be used in "Real 1:1 Mode"! With this setting, the printer can be used as a mere dispenser without processing print jobs. Set the material length before you use this function.

Dispense only

- See parameter **PRINT PARAMETERS > Material length**.

After calling "Dispense only", the printer restarts; afterwards, the following is displayed:

Dispense only Labels	0	0 = Number of dispensed labels.
-------------------------	---	---------------------------------

The parameters menu can be activated as usual after having switched to the offline mode by pressing the Online button two times.

Normal 1:1 Mode

- The printer cannot print on the whole label surface. A stripe at the label beginning stays unprinted.
- The label is being dispensed while printing.
- The output volume is at its maximum level.

■ The width of the unprintable strip is calculated as follows:

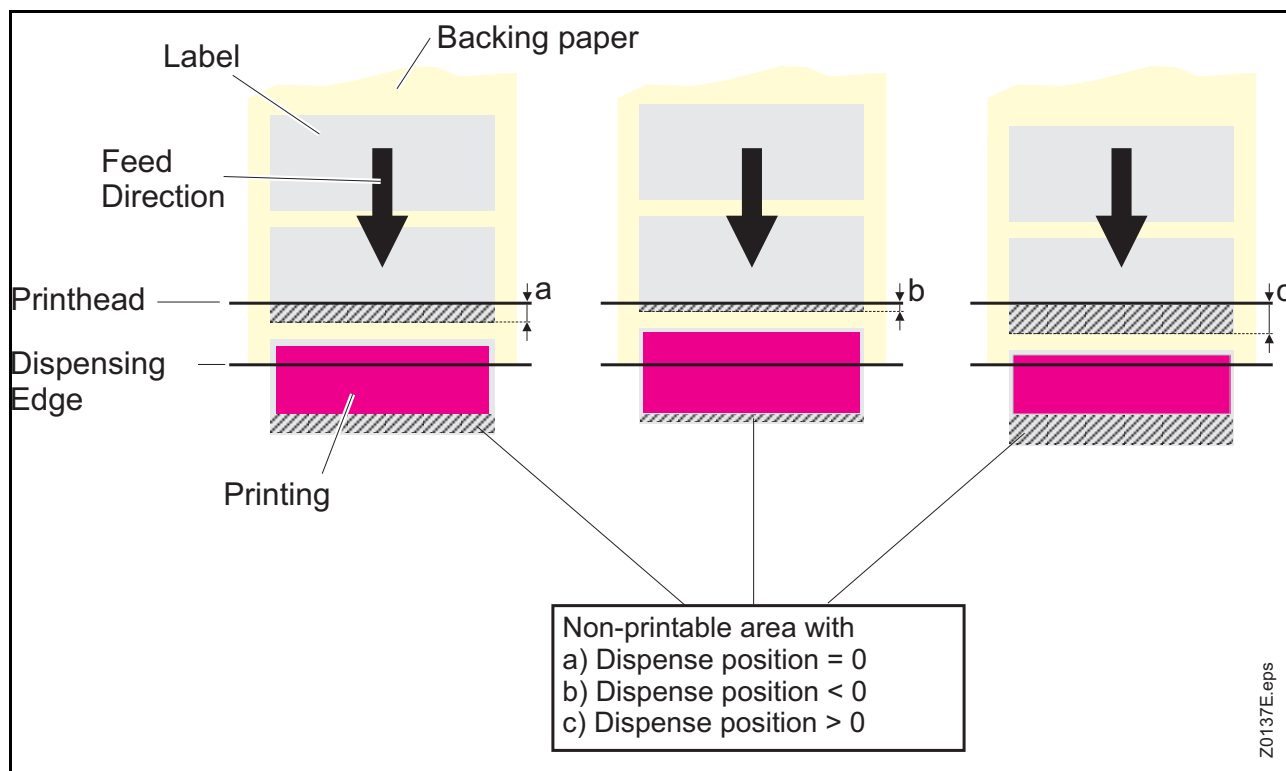
Distance print line to dispensing edge (25 mm) + Dispense position (tab. 10)

Printer	Distance print line - dispensing edge
64-xx	39.8 mm (long dispensing edge) 24.2 mm (short dispensing edge)
AP 5.4	25.0 mm

[10] Distances between print line and dispensing edge for some printers.

■ The position of the print image on the label depends on the length of the unprintable strip. If the dispensing position is changed, or printed on a different device or with a different dispensing edge, the position of the print image shifts in or against the print direction.

- Also refer to parameter **PRINT PARAMETERS > Dispense position**.
- A graphic can be found under **PRINT PARAMETERS > Cut mode > Normal 1:1 mode**.



[17] The size of the not imprintable area in Normal 1:1 depends of the setting of parameter DISPENSE PARAMETERS > Dispense Position.

Batch Mode

- The printer can print the whole label surface.
- Dispensing of the label takes place during printing. Printing of the next label is interrupted until the label is completely dispensed.
- The output volume is at its maximum level.

■ The *Batch mode* is optimised for printing and dispensing at high speeds. Due to this, it is not possible to use all features available in modes *Normal 1:1* or *Real 1:1*. Also consider, that printing data must be available on time and in sufficient quantity.

■ The following must be considered in batch mode:

- Printjobs must not contain counter fields or variable fields
- DISPENSE PARAMETER > Dispensing mode must be set to "fast".
- The USI reprint function is not supported. DP INTERFACE > Reprint signal must be set to "deactivated".
- Foil save must not be activated

○ A graphic can be found under PRINT PARAMETERS > Cut mode > Batch mode.

Real 1:1 Mode

(Default setting)

- The printer can print the whole label surface.
- After dispensing a label, the beginning of the next label is drawn back under the print head.
- The output volume is lower than in *Batch Mode* or *Normal 1:1 Mode*.

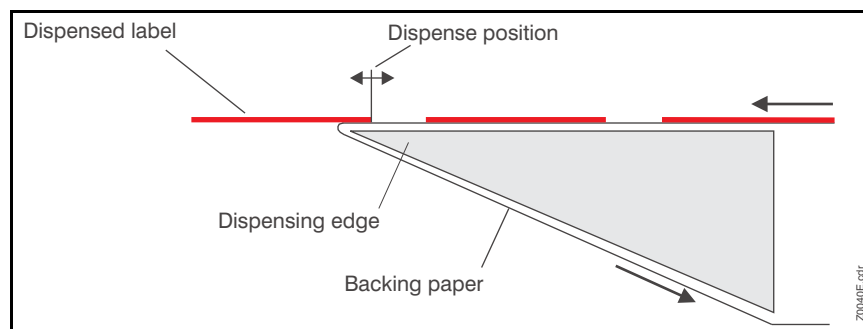
○ A graphic can be found under PRINT PARAMETERS > Cut mode > Real 1:1 mode.

Dispenseposition

64-xx	ALX 92x	DPM
-------	---------	-----

Only if **SYSTEM PARAMETER > Periph. device** = „Dispenser“.

Adjusts the dispense position in or against the feed direction. Depending on the set dispense position, the dispensed label sticks to the backing paper with a more or less wide strip [18]. The required width of this strip depends on the further processing.



[18] Dispense position of the dispensed label.

x.x mm

Setting range: -30.0 to +20.0 mm; Unit interval: 0.1 mm; Default setting: -6.0 mm

Display mode

64-xx	ALX 92x	DPM
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Only if `SYSTEM PARAMETER > Periph. device = „Dispenser“`.

Makes the *already* printed labels appear in the display instead of the *not yet* printed ones.

Job rest quant.

Display of the *not yet* printed labels of a print job.

Dispense counter

Counting of start pulses. Activate the counter by selecting "Dispense counter". The counted number appears on the display after the parameter *Dispense counter* (see below) has been selected.

The counter keeps it's value even after switching the printer off.

Dispense counter

64-xx	ALX 92x	DPM
-------	---------	-----

Only if `SYSTEM PARAMETER > Periph. device = „Dispenser“`.

Dispense counter xxxxxx

xxxxxx = Number of dispensed labels.

The displayed value can be varied by pressing the Cut or Feed button.

Resetting the counter: `SYSTEM PARAMETER > Disp. Cnt. Reset = „Yes“`

Dispensing mode

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if `SYSTEM PARAMETER > Periph. device = „Dispenser“`.

Only effective in real 1:1 mode!

Real 1:1 mode normally bears the disadvantage of a slightly lower impression accuracy, caused by the additional slippage at the rollers while feeding back.

The parameter "Dispensing mode" enables optimal positioned printouts even in real 1:1 mode. This accuracy is reached by feeding back the next label to be printed behind the gap sensor instead of "only" as far as under the print head. The additional distance of backwards feeding reduces the output rate slightly.

exact

Printout with a maximum impression accuracy

fast

(Default) Printout with a lower impression accuracy but higher output rate.

Application mode

64-xx	ALX 92x	DPM
-------	---------	-----

Only if `SYSTEM PARAMETER > Periph. device = „Dispenser“`.

Save Mode	A start signal is required to draw the next label back under the print head. This setting bears advantages for label material with a strong adhesive, which would not stay attached to the applicator when the backing paper is fed backwards.
Immediate Mode	After the just printed label has reached the dispense position, the following label is drawn back under the print head. The dispensed label stays attached to the applicator (default setting).
Synchronous mode	Drawing back of the next label to be printed is triggered by the <i>not</i> active edge of the start signal. The active edge is defined with <i>Start print mode</i>. <i>Not</i> active is the opposite signal edge. Requirements: • USI: – USI firmware version: 7 or higher – DP INTERFACE > Start print mode = „Pulse rising“ or „Pulse falling“ • AI: APPLICATOR PARA > Start print mode = „Pulse rising“ or „Pulse falling“

Start source

64-xx

➡ Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.
Choose a signal source for the start signal:

Foot switch	Optional foot switch is used to generate the start signal.
Light barrier	(Default setting) Photoelectric switch at the dispensing edge which detects the taking off of the dispensed label. ➡ The setting "Light barrier" is unsuitable for product sensors! Product sensors must be connected to the I/O board!

Dispensing edge

64-xx

➡ Only if SYSTEM PARAMETER > Periph. device = „Dispenser“.
Adapts the feeding to the length of the dispensing edge.

long	Long dispensing edge
short	Short dispensing edge (Default setting)
User defined	The distance between print line and dispensing edge can be set by SYSTEM PARAMETER > Head disp dist (see below). This is helpful if none of the standard dispensing edges are applied.

Max InitFeedback

64-xx ALX 92x DPM

➡ 64-xx: Only with dispenser version.
➡ Only if SYSTEM PARAMETER > Gap detect mode = „Autom. feed back“.

During initialization, the label material is fed back until the next punch/reflex mark is reached. This parameter defines the maximum admissible backwards feeding length.

xx mm

Setting range: 0 to 200 mm; Step width: 1 mm; Default setting: 80 mm

Transport mode

64-xx

➡ Only if `SYSTEM PARAMETER > Periph. device = „Dispenser“`.

In normal operation mode, the rewinder motor (Dispenser Motor) feeds the material, while the feed motor runs idle. When applying very slim material, it can be advisable to add the power of the feed motor in order to prevent material rupture (Dual Motors). To run the printer like a usual non-dispenser, the rewinder motor can be switched off (Printer Motor).

➡ Absolutely use the "Dual Motors" mode, if the following three conditions are the case:

- Printer is used as dispenser
- Ribbon autoeconomy mode switched on
- Print speed higher than 203 mm/s (8 inch/s)

Printer Motor

Rewinder motor switched off. The printer behaves like a model without dispenser option.

Dual Motors

Both motors (feed and rewinder) are activated.

Dispenser Motor

The feed motor is switched off. The rewinder motor feeds the material (Default setting).

Start offset

64-xx ALX 92x DPM

Function for operation with product sensor.

Use this parameter to set the distance between product sensor (light barrier) and dispensing edge. The recommended delay time is calculated of the "Start delay" distance and the conveyor speed (= print speed in cases of direct application).

xxx.x mm

Setting range: 15.0 bis 2999.9 mm; Unit interval: 0.1 mm;
Default setting: 15.0 mm

Start error stop

64-xx ALX 92x DPM

Function for operation with product sensor.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.

- *With mounted I/O board or USI board only:* If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

If a product start error occurs, the machine stops and displays the appropriate status message. If an I/O board or an USI is installed, the following output signals are activated (set low):

- ERROR\
- MACHINE STATUS\

On

(Default) Start errors are worked up (the machine stops!)

Off

Start errors are being ignored.

Product length

64-xx	ALX 92x	DPM
-------	---------	-----

Function for operation with product sensor.

If this function is activated, the printer ignores all start signals until the product has passed the dispensing edge.

0.0 mm

Setting range: [0.0...1999.9] mm; Default setting.: 0.0

Speed Adaption

ALX 92x	DPM	PEM
---------	-----	-----

On	Aktivieren der Geschwindigkeits-Adaption (APSF)	
	The dispensing speed adapts automatically to match the speed of the conveyor belt.	
Off	Prerequisites:	
	• APSF kit installed • Rotary encoder installed • The following parameters must be set to match the applied rotary encoder: – DISPENSER PARA > Encoder Type – DISPENSER PARA > Encoder Resol. – DISPENSER PARA > Encoder Diameter	
Off	(Default setting) The dispensing speed remains constant, at the value that was set using parameter PRINT PARAMETERS > Print speed.	

Encoder Type

ALX 92x	DPM	PEM
---------	-----	-----

	Type of rotary encoder used.	
	 Only if DISPENSER PARA > Speed Adaption = „On“	
Single Phase	(Default setting) Setting for single phase rotary encoder	
2 Phases normal	Setting for normal 2 phase rotary encoder	
2 Phases invert.	Setting for inverted 2 phase rotary encoder	

Encoder Resol.

ALX 92x	DPM	PEM
---------	-----	-----

	Resolution of the rotary encoder used.	
	 Only if DISPENSER PARA > Speed Adaption = „On“	
xxxx	Setting range: 0,0 bis 9999 pulses/turn; Default setting: 500	

Encoder Diameter

ALX 92x	DPM	PEM
---------	-----	-----

	Diameter of the measuring wheel at the rotary encoder used.	
	 Only if DISPENSER PARA > Speed Adaption = „On“	
xxx,x	Setting range: 0,0 bis 200,0 mm; Default setting: 64,0	

Encoder Diameter	
200.0 mm	20.6 var

The diameter of the measuring wheel is shown on the left. The current product speed as calculated by the machine appears on the right. If this speed is not equal to the actual speed, the setting for the measuring wheel diameter can be changed to align the actual and measured values for the conveyor speed.

Example shown on display: The speed of the conveyor belt is calculated at 20.6 m/min for a measuring wheel of diameter 200 mm at the current rate of rotation.

Forw feed rat.

64-xx

■ ■ ■ ➔ 64-xx dispenser only

■ ■ ■ ➔ Only if DISPENSER PARA > Transport mode = „Dual motors“

Forward feed ratio

Setting the forward feed ratio (in dispensing direction)

$$\frac{\text{Dispensing motor feed speed}}{\text{Feed motor feed speed}} \cdot 100\% = \text{Setting value\%}$$

xxx%

Setting range: 90 - 110%; Step width: 1; Default setting: 100%

Backw feed rat.

64-xx

■ ■ ■ ➔ 64-xx dispenser only

■ ■ ■ ➔ Only if DISPENSER PARA > Transport mode = „Dual motors“

Backward feed ratio

Setting the backward feed ratio (contrary to the dispensing direction)

$$\frac{\text{Dispensing motor feed speed}}{\text{Feed motor feed speed}} \cdot 100\% = \text{Setting value\%}$$

xxx%

Setting range: 90 - 100%; Step width: 1; Default setting: 100%

Multi label mode

ALX 92x	DPM
---------	-----

Only works if a singlestart connector or an USI is used as signal input - it doesn't work, if an AI or the operation panel is applied as signal input.

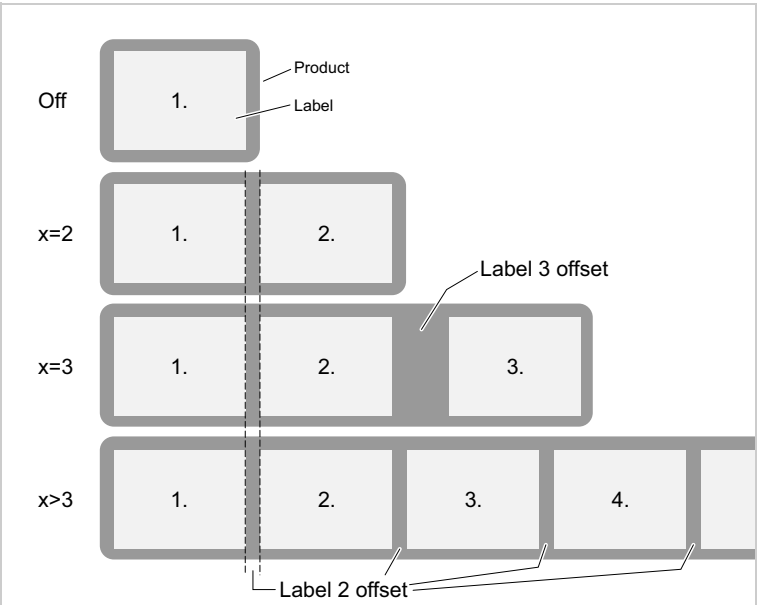
Off

One label is printed/dispensed per start signal.

x labels/start

x labels are printed/dispensed per start signal; x = [2...20]

- For 2 labels counts: The spacing of the second label corresponds to the value set in DISPENSER PARA > Label 2 offset [19, second row]
- For 3 labels counts: The spacing of the third label corresponds to the value set in DISPENSER PARA > Label 3 offset [19, third row]
- For 4 to 20 labels counts: The spacing of all subsequent labels after the 2nd label corresponds to the value set in DISPENSER PARA > Label 2 offset [19, fourth row]



[19] For 3 labels in a row (x=3) there is the special case that the distances between the first and second label and between the second and third label can be set differently. For all other cases, the distance is the same for all subsequent labels.

Label 2 offset

ALX 92x	DPM
---------	-----

Only if DISPENSER PARA > Multi label mode = „x labels/start“

Defines the distance between all labels following the first label, if x = 2 or x > 3 (see DISPENSER PARA > Multi label mode). The distance is measured from the front label edge of the preceding label.

x mm

Setting range: x...9999.9 mm; Default: x, with x = PRINT PARAMETERS > Material length.

■■■➡ ATTENTION - For the Dispense Mode = „Real 1:1 Mode“ the parameter does not work as described. The distance of the next label cannot be entered in millimetres, but must be determined by “trial and error”:

1. Set a rather high value, e. g. 700.
2. Trigger the start signal.
3. Will the desired number of labels be dispensed?
 - Yes: Continue with step 4.
 - No: Increase the value generously (approx +50) and repeat step 2.
4. Decrease value step by step until the desired label distance is reached.

Label 3 offset

ALX 92x DPM

■■■➡ Only if DISPENSER PARA > Multi label mode = „3 labels/start“

Defines the distance of the 3rd label if x = 3 (see parameter DISPENSER PARA > Multi label mode). The distance is measured from the front label edge of the preceding label.

x mm

Setting range: x...9999.9 mm; Default: x, with x = PRINT PARAMETERS > Material length.

■■■➡ ATTENTION - For the Dispense Mode = „Real 1:1 Mode“ the parameter does not work as described. The distance of the next label cannot be entered in millimetres, but must be determined by “trial and error”:

1. Set a rather high value, e. g. 700.
2. Trigger the start signal.
3. Will the desired number of labels be dispensed?
 - Yes: Continue with step 4.
 - No: Increase the value generously (approx +50) and repeat step 2.
4. Decrease value step by step until the desired label distance is reached.

APPLICATOR PARA

■ This menu only appears in printers of the types DPM, PEM and ALX 92x, and only, if the optional Applicator Interface (AI) is connected.

Applicator type

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

Selection, which applicator type will be applied:

LTP-LTPV

LTP = Light Touch Pneumatic

LTPV = Light Touch Pneumatic Vacuum

Applicator with „Light Touch“ function. „Light Touch“ means, that the movement of the (compressed air) cylinder is limited by sensors, which react to a light touch onto the product. The LTPV additionally sucks the labels on with a vacuum nozzle.

Advantages:

- Application on products with different heights possible
- Only light pressure onto the product (important with sensitive products)

○ Refer to [Technical Manual LTP/LTPV](#) .

PEP

The cylinder movement is limited by a setable length of time. After the run out of this application time, the cylinder moves back into home position.

PEP Blow on

PEP-type applicator with blow on function: After run out of the application time, the blow on function is activated. After run out of the blow on time, the applicator moves back into home position.

PEP II Sensor

The cylinder movement is limited by a (touch down) sensor, which signals the contact to the product and triggers the backwards-movement.

ASA

ASA = Air stream applicator. This applicator type has no moving parts, but blows the label onto the product (also called „blow box“). After the start signal, the blow on valve is opened for a setable time length.

Reverse PEP

This applicator is partly time related. Working procedure:

The applicator moves to its end position and “waits” for the start signal. The start signal triggers the blow on valve which is active for the defined blow on time. After the run out or the blown on time, the applicator moves to home position, gets the next label and moves to the wait position.

Direct Dispense

Dispensing with dispensing edge (without applicator).

BTS

BTS = Bad tag separator. This device does the opposite of an applicator: it removes labels from the dispensing edge of a labeller. The BTS is used for sorting out RFID labels, which could not be read/written properly.

O-ring applicat.

Setting for an O-ring applicator.

LA-BO

Label Applicator Blow On.

○ For details refer to the [User Manual LA-BO](#) .

LA-CE

Label Applicator Corner Edge, applies the label around a corner edge.

LA-SO Label Applicator **Swing On**, applies the label with a rotation movement.

- For details refer to the [User Manual LA-SO](#) 

LA-TO Timed Label Applicator **Tamp On**, time controlled

LA-TO Sensor LA-TO, sensor controlled

LA-TO BO Timed Label Applicator **Tamp On** with **Blow On** function, time controlled

LA-TO BO Sensor Label Applicator **Tamp On** with **Blow On** function, sensor controlled

- For details about LA-TO and LA-TO BO refer to the [User Manual LA-TO](#) 

Application mode

ALX 92x	DPM
➡ Only with an AI installed. Defines, if the application process starts with applying („After start signal“) or with printing the label. Precondition: A printjob is loaded and the printer is in online mode.	
After print The start signal triggers the immediate printing, dispensing and applying of a label.	After start sig. The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed.

- A flow chart illustrating the application process can be found in the [User Manual LTP/LTPV](#) , topic section "Installation / Setup", paragraph „Product description“ > "Function diagram LTSI / LTP / LTPV".

Start print mode

ALX 92x	DPM
➡ Only with an AI installed. Selecting a print mode. Depending on the selected mode, the start signal will be interpreted differently by the AI.	
Requirements: • SYSTEM PARAMETER > External signal = „Singlestart“ • A printjob was transferred (DATA READY) • Printer is switched „Online“ • No error messages	
➡ Start Print Mode replaces the Parameter SYSTEM PARAMETER > Signal edge, which can be found in older firmware versions.	
○ Further information about using a start signal: Read the user manual, topic section „Advanced Applications“, chapter Printing with start signal .	
➡ 64-xx: This parameter has priority over SYSTEM PARAMETER > Signal edge, which is relevant for setting the triggering of the single start connector.	
Pulse fall/ris The printing of a label is triggered by a low-high-change as well as by a high-low change of the start signal. The printing occurs only after the set delay time.	

- SYSTEM PARAMETER > External signal = „Singlestart“
- A printjob was transferred (DATA READY)
- Printer is switched „Online“
- No error messages

➡ Start Print Mode replaces the Parameter SYSTEM PARAMETER > Signal edge, which can be found in older firmware versions.

- Further information about using a start signal: Read the user manual, topic section „Advanced Applications“, chapter [Printing with start signal](#) .

➡ 64-xx: This parameter has priority over SYSTEM PARAMETER > Signal edge, which is relevant for setting the triggering of the single start connector.

Level high active	Labels will be printed as long as the start signal is held high.
Pulse rising	The printing of a label is triggered by a low-high change of the start signal. The printing occurs only after the set delay time.
Level low active	Labels will be printed as long as the start signal is held low.
Pulse falling	(Default setting) The printing of a label is triggered by a high-to-low change of the start signal. The printing occurs only after the set delay time.

Dwell time

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

■ Only if **APPLICATOR PARA > Applicator type** = „PEP“, „PEP Blow on“, „Reverse PEP“, „BTS“, „LA-SO“, „LA-TO zeitgest.“.

Defines the dwell time for the apply cylinder. The dwell time is the time during which the cylinder valve is turned on.

xxxxx ms Setting range: 1 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Blow on time

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

■ Only if **APPLICATOR PARA > Applicator type** = „PEP Blow on“, „PEP II Sensor“, „ASA“, „Reverse PEP“, BTS, „O-Ring Applikator“, „LTP - LTPV“ or „LA-BO“.

 Standard applicators of the LTP/LTPV types don't need the „Blow on time“ signal, therefore this parameter is not relevant for them. The parameter is intended for special variants of the LTP/LTPV applicator, which provide an additional blow-on function using this signal.

xxxxx ms Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Restart delay

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

Sets the delay time after the application, during which no start signals are accepted.

xxxxx ms Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 0 ms

Apply comp. time

ALX 92x	DPM
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■ Only with an AI installed.

■ Only if **APPLICATOR PARA > Applicator type** is not „Direct Dispense“

Compensation time for the applicator stroke time; required for operation with variable conveyor speed.

xxxxx ms

Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 0 ms

- For details refer to the service manual ALX 92x, topic section „Installation/Deinstallation“, chapter „Installing APSF“ > „Compensation time with applicator operation“.

Position timeout

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

■ Not with **APPLICATOR PARA** > **Applicator type** = „ASA“, „Direct Dispense“, „LA-BO“.

Sets the delay time, after which a position error of the applicator is displayed as an error. A position error occurs, if the applicator doesn't reach any of its end positions within the required time frame.

xxxxx ms

Setting range: 200 to 99999 ms; Unit interval: 1 ms;
Default setting: 2000 ms

Off

Set x<200 to disable the function.

Lab release time

ALX 92x	DPM
---------	-----

■ Only with an AI installed.

■ Not with **APPLICATOR PARA** > **Applicator type** = „ASA“.

■ Required setting: **APPLICATOR PARA** > **Application mode** = „After printing“

Defines a delay between the dispensing and the start of application of the label.

xxxx ms

Setting range: 1-99999 ms; Unit interval: 1 ms; Default setting: 0 ms

Touch down sens.

ALX 92x	DPM
---------	-----

Switching behaviour of the touchdown sensor.

■ Only with an AI installed.

■ Only visible with certain applicator types.

Pulse falling

The *falling* signal edge at the sensor triggers the touchdown trigger event

Pulse rising

The *rising* signal edge at the sensor triggers the touchdown trigger event

TouchDownTimeout

ALX 92x	DPM
---------	-----

Timeout at the touchdown sensor.

- Only with an AI installed.
- Only visible with certain applicator types.

This time specifies the maximal wait time for the touchdown trigger event. If the specified time is exceeded without the touchdown event, the applicator continues operation in the same manner as the touchdown event would have taken place. *No error message will appear in this case.*

xxxxx

Setting range: 100 to 99999 ms

Off

(Default setting)

I/O BOARD

■ This menu appears only if the optional I/O Board is mounted.

Start print mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only with an I/O board mounted.

Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the I/O Board signal interface. The parameter is also used for the device connected to the foot switch jack.

- Make sure to select **SYSTEM PARAMETER > External Signal = „Single Start“**.
- See parameter [External signal](#) on page 88.
- Note: The parameter **Start Print Mode** replaces the parameter **Signal Edge** in the **SYSTEM PARAMETER** menu.
- Preconditions: Print job is available (DATA READY), printer is in “Online” mode, no error messages.

Pulse falling	(Default setting) The printing of a label is triggered by a high-to-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.
Pulse rising	The printing of a label is triggered by a low-high change of the signal at the input START PRINT. The printing occurs only after the set delay time.
Pulse fall/ris	The printing of a label is triggered by a low-high-change as well as by a high-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.
Level low active	Labels will be printed as long as the signal at input START PRINT is held low.
Level high activ	Labels will be printed as long as the signal at input START PRINT is held high.

Reprint Signal

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Off	■ Only with an I/O board mounted. The input signal is disabled
On	The last printed label will be reprinted on the falling edge of the REPRINT signal. Preconditions: • The label to be reprinted, should be printed and dispensed. • Printer is in online mode. ■ If a REPRINT is triggered while the printer is in “I/O-Board Pause” mode, the reprint will proceed as soon as the printer is switched back in online mode. Precondition: in level mode START PRINT must be inactive.

Feed input

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Only with an I/O board mounted.
Concerns the input signal FEED at the signal interface.

On

(Default setting) Feeding of one label on the falling signal edge. The display shows „I/O board feed“ during feeding. Requirements are:

- Offline mode, „stopped mode“ or „pause mode“
- Online mode and no print job loaded.

Off

Signals at the FEED input are ignored.

Pause input

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Only with an I/O board mounted.
Concerns the input signal PAUSE at the signal interface.

Off

Signals at the PAUSE input are ignored.

Pause

A high-to-low transition switches the printer into the „I/O-Board Pause“ mode. The next high-low-transition switches the printer back into the online mode. If parameter *I/O-Board > Start print mode* is set to „Level high active“ or „Level low active“, any activating of the PAUSE signal stops the printing after the current label.

Features:

- Printer display shows „I/O-Board pause“
- ERROR is active (only if *I/O Board > Error output* is set to „Printer err+Off“)
- If a print job is available: DATA READY becomes inactive (if *I/O Board > Status output* is set to „Print job ready“)
- START PRINT signals are suppressed
- REPRINT requests are processed after switching into online mode.

A "low" signal for 20 ms switches the printer into the pause mode. The pause mode is the same as the "Online stopped" mode and can be switched to the "Online" mode by pressing the feed button.

Error output

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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Only with an I/O board mounted.
This parameter defines different events, which activate the output signal ERROR.

Printer error

ERROR will be activated in all of the following cases:

- Material end
- Ribbon end (only if *SYSTEM PARAMETER > Foil mode* = „Thermo transfer“)
- No punch recognized (only if *PRINT PARAMETERS > Material type* = „punched“)
- Printhead pressure lever was opened during the printing of a label.

- Start print error
 - Other errors, which keep the printer from printing
- During the initialization (powering up) of the printer, the ERROR-signal is instable!
- Printererr + Offl** In addition to the above mentioned cases activate the following events the ERROR-signal:
- The printer is in offline mode
 - The printhead pressure lever is open
 - „I/O board pause“ mode
 - Stopped mode (the printing was stopped)

Error Polarity

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only with an I/O board mounted.
Switches the polarity of the ERROR signal.

Level high activ

The output is high when it is active, otherwise low.

Level low active

The output is low when it is active, otherwise high. (Default)

Status output

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only with an I/O board mounted.
This parameter defines different events, which activate the output signal MACHINE STATUS.

Low ribbon warn

The signal is activated, if the ribbon roll diameter is less than the limit.

- See parameter [Foil end warning](#) on page 75.

Print job ready

(Default setting) The signal is activated, if the printer has finished image processing and is ready to start printing.

The signal is *not activated*, if:

- the print job is done,
- the print job was stopped,
- the printer was switched to offline mode,
- the printer is in pause mode.

Status polarity

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only with an I/O board mounted.
Switches the polarity of the MACHINE STATUS signal.

Level high activ

The output is high when it is active, otherwise low.

Level low active

(Default setting) The output is low when it is active, otherwise high.

End print mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
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■ Only with an I/O board mounted.

Concerns the output signal PRINT_END at the I/O board signal interface.
Determines the signal response after printing of a label.

Mode0 inactive

No print end signal.

Mode1 low level

Low, if the print module is just printing a label, otherwise high.
The output is also deactivated (= low) as long as labels are fed with "Feed Button" or "Feed Signal".

Mode2 high level

High, if the print module is just printing a label, otherwise low.
The output is also deactivated (= high) as long as labels are fed with "Feed Button" or "Feed Signal".

Mode3 low pulse

(Default setting) Low for 20 ms after printing and dispensing a label.
The output is also activated (= low) after a label is fed with "Feed Button" or "Feed Signal".

Mode4 high pulse

High for 20 ms after printing and dispensing a label.
The output is also activated (= high) after a label is fed with "Feed Button" or "Feed Signal".

OLV PARAMETERS

■ This menu only appears, if an online verifier (OLV) is connected to the printer. For this, the parameter **INTERFACE PARA > COM2 PORT > Function Option** must be set to „Barcode OLV“.

Verify mode

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

All bar codes

■ Only if **OLV PARAMETER > Cancel. printing = „On“**.

All bar codes are being checked according to the limits set at the printer.

Easyplug select.

■ Easy-Plug print jobs don't have to be modified when using this setting. Only those bar codes are being verified, which have the „V“ set in the command option.

- For details refer to the Easy-Plug manual, command #YB.

Cancel. printing

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Off

■ 64-xx: Parameter is not supported for dispenser version.
Cancellation printing

On

No cancellation printing.

If no validation data for the printed bar code was sent, or if the bar code exceeds the set limits, the faulty printed label is cancelled. Afterwards, the same label is reprinted. The amount of reprints can be set with the parameter „Reprint quantity“. If the error still occurs after the so defined quantity of labels was reprinted, the printing stops and an adequate error message appears.

Reprint quantity

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

xxx

■ Only, if **OLV PARAMETER > Cancel. printing = „On“**.

Defines the maximum amount of reprint attempts after a bar code read error.

- Setting range: 0 to 10, Unit interval: 1; Default setting: 0

OLV mode

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Fast legacy

No additional material feed is made, if the bar code is near the end of a label. An additional material feed is only made if the last label of a job is printed and the printer has to stop. This is the behaviour of a Gen. 1 printer with firmware 3.40.

Limitations:

- **OLV PARAMETERS > Cancel. printing** is not available

- It is not recommended to use the setting „Fast legacy“ as a standard, as some unexpected behavior, depending on the label format, may occur. Each label format has to be tested explicitly.

fast

Standard verification mode.

slow

Each print job is proceeded as if it contained counting fields. Additionally, each labels is moved forward underneath the laser beam and backwards again. This procedure slows down the label throughput, but on the other hand it ensures that the correct counting field content is printed after an error occurred.

Ref Decode

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

No Test

Only if OLV PARAMETER > Cancel. printing = „On“.
The bar code doesn't have to be decodable.

Pass

The bar code must be decodable.

Decodability

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

xxx

Only if OLV PARAMETER > Cancel. printing = „On“.
Condition: Value >= Limit.
Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Modulation

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

xxx

Only if OLV PARAMETER > Cancel. printing = „On“.
Condition: Value >= Limit.
Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Defects

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

xxx

Only if OLV PARAMETER > Cancel. printing = „On“.
Condition: Value <= Limit.
Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Edge contrast

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

xxx

Only if OLV PARAMETER > Cancel. printing = „On“.
Condition: Value >= Limit.
Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Rmin/Rmax

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Minimaler/maximaler Reflexionsgrad.

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value <= Limit.

Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

xxx

Symbol contrast

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value >= Limit.

Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

xxx

PCS

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Print Contrast Signal.

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value >= Limit.

Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

xxx

R (white)

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Reflectance.

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value >= Limit.

Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

xxx

R (black)

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Reflectance.

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value <= Limit.

Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

xxx

Ratio

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value >= Limit.

Setting range: -1 to 99; Unit interval: 1; -1 = No checking.

xxx

ANSI symbol grade

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only if OLV PARAMETER > Cancel. printing = „On“.

Condition: Value >= Limit.

For most applications, it is sufficient to set only this parameter. The previously listed parameters are checked automatically according to ANSI grade.

Setting range: -1 to 40; Unit interval: 1; -1 = No checking.

xxx

Value	ANSI Grade
0-5	F
5-15	D
15-25	C
25-35	B
35-40	A

[11] ANSI symbol grades

Dist. head-beam

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

For most applications, it is sufficient to set only this parameter. The previously listed parameters are checked automatically according to ANSI grade.

Setting of the distance between reading position of the laser beam and print head.

Setting range: 6 to 18; Unit interval: 1

xx mm

DP INTERFACE

- The parameters described in this section only appear in the parameter menu after a USI board is mounted.
- For information on signals and pin assignment of the USI, refer to the Service Manual, topic section "Electronics", chapter "USI board".

Interface type

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- Only with USI board.
- Sets the machine to the used application procedure.

USI interface

Setting for direct dispensing.

USI applicator

Setting for operation of an applicator with additional PLC.

Start print mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- Only with USI board.
- Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the USI interface.
- Requirements:
 - SYSTEM PARAMETER > External signal = „Singlestart“
 - A printjob was transferred (DATA READY)
 - Printer is switched „Online“
 - No error messages
- Start Print Mode replaces the Parameter SYSTEM PARAMETER > Signal edge, which can be found in older firmware versions.
- 64-xx: This parameter has priority over SYSTEM PARAMETER > Signal edge, which is relevant for setting the triggering of the single start connector.
- Further information about using a start signal: Read the user manual, topic section „Advanced Applications“, chapter [Printing with start signal](#) .

Pulse fall/ris

The printing of a label is triggered by a low-high-change as well as by a high-low-change of the signal at the input START PRINT\ . The printing occurs only after the set delay time.

Level high activ

Labels are being printed as long as the signal at input START PRINT is held high.

Pulse rising

The printing of a label is triggered by a low-high-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Level low active

Labels are being printed as long as the signal at input START PRINT is held low.

Pulse falling

(Default setting) The printing of a label is triggered by a high-low-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

End print mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Concerns the output signal PRINT_END at the USI interface. Determines the signal response after printing of a label.

Mode 0

No print end signals.

Mode 1

Low, if the print module is printing a label, otherwise high.

Mode 2

High, if the print module is printing a label, otherwise low.

Mode 3

(Default setting) Low for 20 ms after printing and dispensing a label. The signal is also low, if the label material is *only* fed - triggered by pressing the feed button or by a feed signal.

Mode 4

High for 20 ms after printing and dispensing a label. The signal is also high, if the label material is *only* fed - triggered by pressing the feed button or by a feed signal.

Mode 5

The PRINT_END signal is *low* as long as the material is fed forwards (even for gap initialization).

Mode 6

The PRINT_END signal is *high* as long as the material is fed forwards (even for gap initialization).

Reprint signal

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Determines the reaction on an incoming signal at pin REPRINT\ at the USI.

Off

(Default setting) Incoming signal is ignored.

On

On a high-low toggle of the signal: The last printout is repeated.

Ribbon signal

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Concerns the output signal WARNING at the USI, which signalizes the close shortness of ribbon or material.

On

(Default setting) High, if the ribbon stack is less than the threshold value.

- The threshold setting is done with the parameter `SYSTEM PARAMETER > Foil end warning.`

Off

Ribbon signal deactivated.

Material signal

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with USI board.

Concerns the output signal WARNING at the USI, which indicates the close shortness of ribbon or material.

On

High, if the diameter of the material roll falls below a certain value. The limit diameter is set by positioning the outer diameter (OD) sensor.

Off

Requirement: "OD sensor material" is installed.

No material end warning.

Mat. signal stop

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with USI board.

Defines the reaction of the printer on a material low signal coming from the OD-sensor.

○ See DP INTERFACE > Material signal

Off

(Default) The output signal WARNING at the USI is activated (precondition: DP INTERFACE > Material signal is set to „enabled“). The printing will be continued.

On

After a material low warning occurred, the printer finishes printing the current label and stops afterwards. The display shows:

Print Status:	5123
USI Material low	

After acknowledging the message, the printing can be continued.

Feed input

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with USI board.

Concerns the output signal FEED at the USI.

Standard

(Default setting) Feed of blank labels as long as signal is "low".
Precondition: Off-line mode or printing stopped in on-line mode.

JP5

A signal different from the standard FEED can be used. Precondition: an appropriate firmware change (NISTAN).

Pause input

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Concerns the output signal PAUSE\ of the USI.

Standard

(Default setting) A "low" signal for 20 ms switches the DPM / PEM to the pause status. The pause status equals the status "on-line stopped" and can be closed by pressing the feed button.

JP6

A signal different from the standard PAUSE\ can be used. Precondition: an appropriate firmware change (NISTAN).

Start error stop

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.
- If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

If a product start error occurs, the machine stops and displays the appropriate status report. At the same time, the following output signals are activated (set low):

- ERROR
- MACHINE STATUS

On

Start errors are worked up (the machine stops!) (default setting)

Off

Start errors are being ignored.

Internal inputs

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

Defines, if the internal inputs (CN300) on the USI board will be used or not.

- To find the location of the inputs, refer to the service manual, topic section "Circuit/Component Diagrams", chapter "USI board".

On

The internal inputs will be enabled.

Off

The internal inputs will be disabled.

Apply mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board.

■ Only, if `DP INTERFACE > Interface type` = „USI Applicator“.

Defines, if the application process starts with applying („After start signal“) or with printing („After print“). Requirements: Printjob transferred, printer is switched „Online“.

After print

The start signal triggers the immediate printing, dispensing and applying of a label. Precondition: A printjob is loaded and the printer is in online mode.

After start sig.

The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed. Precondition: A printjob is loaded and the printer is in online mode.

- For detailed information about the applicator mode refer to the Technical Manual LTSI, topic section "Specifications", paragraph "Function diagram LTSI / LTP / LTPV".

USI profile

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with USI board (minimum required USI firmware version: 9).

Standard

Standard setting without forwarding the BTS (Bad Tag Signal).

Bad Tag

Forwards the BTS to the „Warning“ output of the USI (pin 9). The BTS is generated, if a read/write operation on a RFID-Tag failed.

Warning signal

64-xx	DPM	PEM	ALX 92x
-------	-----	-----	---------

■ Only with USI board (minimum required USI firmware version: 9).

Level low active

The warning signal will be activated with *low* level.

Level high activ

(Default setting) The warning signal will be activated with *high* level.

ZPL PARAMETERS

This section lists the ZPL II® commands that the printer can interpret with any special notes, if applicable.

■ This menu appears only with **SYSTEM PARAMETER > Print Interpret.** set to „ZPL Emulation“ or „EasyPlug/ZPL Emu“.

■ ZPL is not supported in Standalone Mode.

■ Recommended settings:

SYSTEM PARAMETER > RAM disk size at least 2048 Kbytes

SYSTEM PARAMETER > Free store size at least 4 MB

Darkness

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Print contrast for ZPL printjobs. This setting is modified by printjobs which contain print contrast information. The print contrast set by **SYSTEM PARAMETERS > Print contrast** is not influenced by this setting.

xx

Setting range: 0-30; Step width: 1; Default setting: the Easy-Plug setting is overtaken.

Control Prefix

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Indicates the start of a ZPL control instruction.

xxH

Default: xx = 7E (0x7E = „Tilde“)

Format Prefix

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Indicates the start of a ZPL format instruction.

xxH

Default: xx = 5E (0x5E = „Caret“)

Delimiter Char

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Used as a parameter place marker in ZPL format instructions.

xxH

Default: xx = 2C (0x2C = „Comma“)

Label Top

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Label top offset (y-offet) in dots. Equals the parameter `PRINT PARAMETERS > Y-Printadjust`, which will be ignored, when ZPL printjobs are printed.

xxx Dots

Setting range: -240 - +240; Default: 0; Step width: 1

Left Position

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Left position offset (x-offset) in dots. Equals the parameter `PRINT PARAMETERS > X-Printadjust`, which will be ignored, when ZPL printjobs are printed.

xxx Dots

Setting range: -9999 - +9999; Default: 0; Step width: 1

Manual Calibrate

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

For endless material, the label length information is sent in the printjob. For punched material, the label length has to be detected by activating this function.

YES

Label length calculation for punched material.

- Activate this function, if label material has changed.
- Calibration should be done after changing material, when there are no printjobs loaded in the printer.
- Shortcut (in offline mode): press the feed + prog buttons simultaneously to activate the calibration.

Resolution

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Print resolution in dpi. A 200 dpi graphic printjob can be printed with a 300 dpi printhead.

xxx DPI

Setting range: 200/300 dpi; Default: 300 dpi;

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

Error Indication

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Selects the way, in which the printer responds in the event of error occurring during printing.

Low
High
Off

Error Level	Setting		
	LOW	HIGH	OFF
0	Ignore	Ignore	Ignore
1	Ignore	Flash on the display	Ignore
2	Prompt user for action	Prompt user for action	Ignore

[12] Error handling settings.

Error Checking

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Enables or disables error checking, when the printer is handling print fields.

YES

Error checking is enabled. (Default)

NO

Error checking is disabled.

305 DPI Scaling

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Enables the printer to emulate the printing with a 11.8 dots/mm printhead.

When a printjob is designed for a printer that uses ZPL with 300 dpi (11.8 dots/mm) and is to be printed on a 64-0x series printer (12 dots/mm), this parameter has to be set to YES.

YES

305 DPI Scaling is enabled. (Default)

NO

305 DPI Scaling is disabled.

Image Save Path

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Selects the memory to be used by the ^IS and ^IL commands.

■■■■► Interpreter version: 1.10 or higher.

CF Card

Optional CompactFlash card

Internal RAM

The printer's internal RAM. (Default)

Command ^PR

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Disable

The print rate sent in the ZPL printjob is ignored.

Enable The print rate is not ignored.

Command ^MT

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

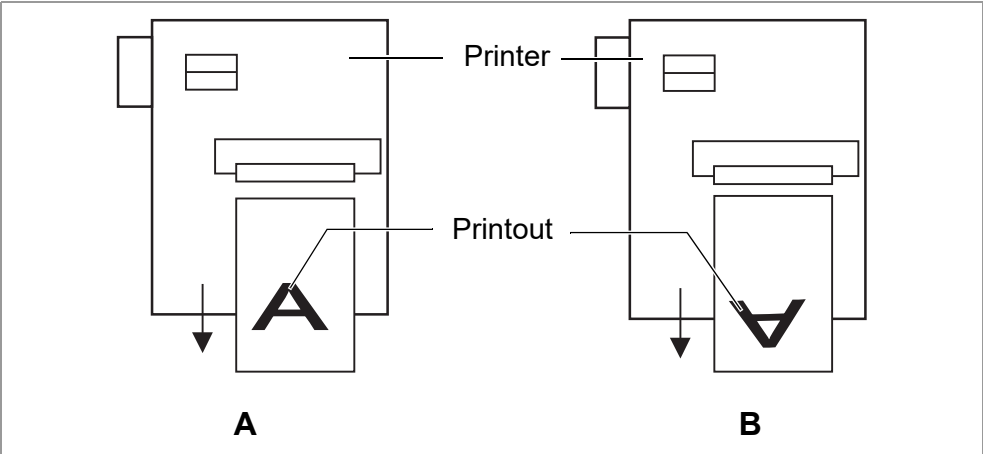
Disable The **material type** sent in the ZPL printjob is ignored (thermo-transfer or thermo-direct).

Enable The material type is not ignored.

Label Invert

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Rotates the printout by 180°. Equals the parameter [PRINT PARAMETERS > Print direction](#), which will be ignored, when ZPL printjobs are printed.



[20] Orientation of the printout: Setting „Disable“ (A) or „Enable“ (B).

Disable The label is printed with „normal“ orientation [20A].

Enable The label printout is rotated by 180° [20B].

Command ^JM

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■▶ Interpreter version: 1.32 or higher

The ^JM command changes the printer resolution:

- ^JMA sets the resolution to the default value = printhead resolution.
- ^JMB sets the resolution to 200 dpi, if the actual resolution is 300 dpi. If the actual resolution is 200 dpi, this command is ignored.

Disable The resolution setting sent in the ZPL printjob is ignored.

Enable The resolution setting is not ignored.

Command ^MD/~SD

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The ZPL commands ^MD and ~SD (set printhead darkness value) are processed optionally.

Enable

^MD- and ~SD are processed.

Disable

^MD- and ~SD are ignored.

SPECIAL FUNCTION

Printer type

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only in production mode.

Selection of the machine type. Must be set after the CPU board was replaced or after new firmware was loaded. The „x“ in the machine name stands for the printhead width. It is detected and replaced automatically.



CAUTION!

Selecting an inappropriate machine type can lead to malfunctions or damage of the printer.

→ Select the printer type that is named on the printers rating plate.

64-0x	64-04/05/06/08 desktop printer.
DPM-0x LH	Printing and dispensing module DPM, lefthand machine.
DPM-0x RH	Printing and dispensing module DPM, righthand machine.
ALX 92x LH	Printing and dispensing machine ALX 924/925/926, lefthand version.
ALX 92x RH	Printing and dispensing machine ALX 924/925/926, righthand version.
MICROJET 64-0x	
MICROJET 64-0xX	
MICROJET 64-0xXX	
PEM-0x LH	Print engine module PEM, lefthand machine.
PEM-0x RH	Print engine module PEM, righthand machine.

Printhead type

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only in production mode!

This parameter chooses the applied printhead type. In most cases equals the printhead width the maximum printwidth of the printer. This parameter is called automatically, after you have modified the printer type setting (SPECIAL FUNCTION > Printer type).

KCE 8Inch	Printhead Kyocera KCE, 8" width, is applied in the following printer type: 64-08
KCE 6Inch	Printhead Kyocera KCE, 6" width, is applied in the following printer types: 64-06, DPM 6", PEM 6", ALX 926
KCE 5Inch	Printhead Kyocera KCE, 5" width, is applied in the following printer types: 64-05, DPM 5", PEM 5", ALX 925, PM 3000
KCE 4Inch	Printhead Kyocera KCE, 4" width, is applied in the following printer types: 64-04, DPM 4", PEM 4", ALX 924

Sensor type

	PEM	ALX 73x (PMA)
--	-----	---------------

Combined sensor Only in production mode.
Required setting, if the printer is equipped with a combined reflex/punch sensor.

Standard Required setting, if the printer is equipped with separate light sensors for reflex marks or gaps.

Disp. Head Offs.

64-xx

Only with 64-xx dispenser equipped with a 4" printhead.

Only in production mode.

Dispenser Head Offset

Yes Setting required for 64-04 dispenser with 4" printhead: At the inner side end of the printhead exists a non-printable area of 13 mm width.

No Setting required for 64-05 dispenser with 4" printhead: Full 4" print width without restrictions. Precondition: The printhead is positioned at least 13 mm away from the inner side printhead end.

Default Values

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode.

User defined The presently selected settings of all parameters will be taken as default values. That is you will get those settings back even after a firmware update. All you have to do is to call the parameter "Factory settings".

Standard Calling the parameter "Factory settings" will set all parameters to the factory preset values.

Command sequence

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode.

~ „~“ is used as start sign for Easy-Plug command sequences.

(Default setting) „#“ is used as start sign for Easy-Plug command sequences.

Delete job

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Press the Online-key to cancel the active print job.

Delete Job
Clearing . . .

Delete spooler

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Press the Online-key to delete all print jobs contained in the spooler.

Delete Spooler
Clearing . . .

Factory settings

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

All parameters are preset ex works to values specific to each device type. These factory settings can be restored at any time.

- All parameters are then overwritten by the factory settings.
- All data present in the spooler, including data belonging to an interrupted print job, is deleted!

No (Default) No factory setting.

Custom defaults If custom parameter settings were stored before (see parameter *Custom defaults*), those are restored.

- „Custom defaults“ only appears, if custom settings have already been stored.

Factory defaults The parameters are set to factory defaults.

Custom defaults

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- Parameter appears only in production mode.

Apply current Stores the current parameter settings as values for the default setup. Those settings are restored by calling parameter *SPECIAL FUNCTION > Factory settings = „Custom defaults“*.

Delete Deletes the stored custom default settings. „Delete“ is only visible, if settings have already been stored.

Store Parameters

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter settings are saved in a text file on memory card (directory *FORMATS*). Considered are also parameters which belong to options, which are not activated.

Without adj. par (Default) Parameters, which contain device specific settings, are *not* saved.

(Default file name: SETUP.FOR).

Application example: Transfer of printer settings to another printer (device specific settings as printhead resistance or sensor settings should not be overwritten).

With adjust para

Parameters, which contain device specific settings, are *also* saved. The relevant parameter names are marked with a * in the text file.

(Default file name: SETUPALL.FOR).

Application example: Service

- For more information about saving and reading parameter settings read topic section „Advanced Applications“, chapter „Saving and Transferring parameter settings“.

Store Diagnosis

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Stores the diagnostic data on memory card. The default file name composes as follows:

„Diagnose AP 5.4 203 Dpi A429403110613.log“

- *AP 5.4 203 Dpi*: printer type and printhead resolution
- *A429403110613*: serial number of the CPU board; equals the value displayed under [SERVICE DATA > CPU board data > Serial number](#)

- For details read the service manual, topic section „Fault Location“, chapter „Reading out diagnostic data“.

Gen.Support Data

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Generate support data

Generates the folder „SupportData“ on the selected memory medium and stores the following diagnosis files therein:

- Setup.for (for details see [SPECIAL FUNCTION > Store Parameters](#))
- SetupAll.for (for details see [SPECIAL FUNCTION > Store Parameters](#))
- Diagnose.log (for details see [SPECIAL FUNCTION > Store diagnosis](#))

Each of the file names is completed by the printer type and the serial number of the CPU board. The file content is english, regardless of the language setting at the printer.

Those data are very helpful for the technical support for fault diagnosis purposes.

EasyPI. file log

Easy-Plug file log

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- Only visible, if a memory card is inserted.
- Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.
- Activating this parameter may cause error messages, which may be difficult to understand. Therefore disable the function after error analysis. If an error occurs, disable the function and restart the printer.

Off

The file log function is switched off.

All data

All received data, including immediate commands, are written into the log file.

Interpreter dataAll data is written into the log file, which the Easy-Plug interpreter reads out of the reception spooler. Immediate commands are *not* included.

Log files delete

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

No

- Only visible, if a memory card is inserted.

(Default setting) No function.

Yes

Deletes all log files on the inserted memory card, which fulfil the following conditions:

- Filename matches the scheme „EPxxxxxx.log“
xxxxx = number from 1 to 999999, preceding digits filled with „0“. Example: „EP000001.log“.
- Location: folder \LOGFILES on memory card

Those conditions are matched by logfiles, which are automatically generated by **SPECIAL FUNCTION** > EasyPl. file log.

Data blocks del.

Delete data blocks

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Bxx

- Only appears, if at least one data block is in the flash memory.
- (Default setting) After calling the parameter, data block number 01 is displayed:

```
Data blocks del.
B01 diagnose inf
```

„B01“: block number 01

„diagnose inf“: name of the data block, is contained in the data block header.

If the flash memory contains more than one data block:

- Press the cut button several times, until the wanted data block appears.

Deleting a data block:

- Press the online button.

```
Data blocks del.
Delete? --> no
```

- Press the feed button to change to „yes“.

➔ Press the online button to delete the block.

All

All data blocks contained in the flash memory are deleted.

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

RFID stat. del.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■▶ Only with activated RFID option.

Sets all RFID counters to zero.

○ See [PRINT INFO > RFID status](#).

SERVICE FUNCTION

Service

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter only appears in production mode.

Increases the counter level of the "Service" counter on the "Service Status" printout by one.

- See parameter [Service Status](#) on page 36.

yes

Increases the counter "Services" by one

no

Doesn't increase the counter

Head exchange

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter only appears in production mode.

Increases the counter „Head number“ on the info printout „Service Status“ by one.

- See parameter [Service Status](#) on page 36.

yes

Increases the counter "Head number" by one

no

Doesn't increase the counter

Roller exchange

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter only appears in production mode.

Increases the counter „Roll number“ on the info printout „Service Status“ by one.

- See parameter [Service Status](#) on page 36.

yes

Increases the counter "Roll number" by one

no

Doesn't increase the counter

Cutter exchange

64-xx

Parameter only appears in production mode and only with a cutter mounted and activated.

Increases the counter „Cutter number“ on the info printout „Service Status“ by one.

- See parameter [Service Status](#) on page 36.

yes	Increases the counter "Cutter number" by one
no	Doesn't increase the counter

Serv. data reset

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter only appears in production mode.
Sets all counters on the info printout „Service Status“ to zero.

- See parameter [Service Status](#) on page 36.

Head dot test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Checks the print head for defective dots. The test ends with a status printout [21], listing the defective dots. The printout is also made without having found any defective dots.



CAUTION!

Risk of printhead damage.

- Never switch off the printer while the dot check is running. If not observed, dots of the print head can be damaged.

During the test appears the display:

Head dot test
running ...

- Parameter only appears in production mode. The printout requires 100 mm wide and 200 mm long label material.

Head Dot Test Status									
Head data									
Head resistance		: 1384 Ohm							
Print width		: 128.0 mm							
Print resolution		: 12.0 Dots/mm							
Number of dots		: 1536 Dots							
26 defective print dots									
1,	417,	418,	419,	557,	700,	761,	770,	771,	
772,	773,	774,	775,	776,	777,	778,	779,	780,	
781,	782,	783,	784,	833,	834,	835,			

[21] Status printout after successfully proceeded dot check. Upper section: technical data of the print head; Lower section: list of defective dots.

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

■ The dot check can also be started by pressing the Cut(Apply)+Feed buttons in Off-line mode. However, in this case no status report is printed.

Head step tune

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Fine adjustment of the printhead movement during the ribbon autoeconomy motion.

x step(s)

Setting range: -15 to +15; Unit interval: 1; Default setting: 0

EasyPlug monitor

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Parameter only appears in production mode.

The parameter activates the logging of received Easy Plug data. Data is transmitted to COM1 or COM2.

■ Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.

■ To keep the influence of the monitoring function on the data rate as low as possible, the baud rate should be set to 115,000! (Default setting) The monitor function is disabled.

Off

Serial Com1

The Easy-Plug monitor data is transmitted to Com1.

Serial Com2

The Easy-Plug monitor data is transmitted to Com2.

EP Monitor Mode

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Parameter only appears in production mode.

■ Activating this parameter may slow down the label rate. Therefore disable the function after error analysis.

Interpreter data

(Default setting) All received Easy-Plug data, apart from immediate commands, are transmitted.

All data

All received Easy-Plug data, including immediate commands, are transmitted.

Head adjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Parameter only for authorised, trained service personnel!

Sensor adjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- ▶ Parameter only appears in production mode.
- For detailed instructions sensor adjustment, please refer to the service manual, topic section "Service Electronics", paragraph "Settings".

Sensor test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

- The description of the sensor test can be found in the printer service manual, topic section „Service Electronics“, chapter [Sensor test](#).

The values displayed are for checking the sensors (sensor check) and can be adjusted by service personnel.

Cutter test

64-xx

Makes it possible to test the cutter function without having to set the parameter `SYSTEM PARAMETER > Periph. device` to „cutter“.

Press Cut Key

Triggers a cut, if a cutter is installed. Without a cutter nothing will happen.

Matend tolerance

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Material end tolerance

This is relevant for label stock with very long punches. To avoid those punches being recognized as material end by mistake, can here the distance be set, after which the gap over the light sensor is interpreted as material end.

■▶ By choosing a very high material end tolerance, you loose the protection of the print roller against being printed on!

Setting range: 20-300 mm; Default setting: 35 mm

xxx mm

Feedadjust label

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Prints a scale, which enables to calculate the feed adjust value (see next parameter).

For application instructions, refer to the Service Manual, topic section „Electronics Gen. 3“, chapter [Adjusting the imprint position](#).

Feed adjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Corrects the material feed length. Such a correction can be necessary when printing on very long labels, to compensate slippage-related feeding inaccuracy.

For application instructions, refer to the Service Manual, topic section „Electronics Gen. 3“, chapter [Adjusting the imprint position](#) .

%2.1f %% [ribbon]

Setting for *thermal transfer printing*

Setting range: -10.0 to +10.0; Step width: 0.1%; Default setting: 0%

■ Only appears if thermal transfer printing was selected (see [SYSTEM PARAMETER > Ribbon autoecon.](#))

%2.1f %% [direct]

Setting for *thermal direct printing*

Setting range: -10.0 to +10.0; Step width: 0.1%; Default setting: 0%

■ Only appears if thermal direct printing was selected (see [SYSTEM PARAMETER > Ribbon autoecon.](#))

Punch y calibr.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode

Compensating the variation of distance between punch sensor and thermal bar of the printhead.

x.x mm

Setting range: -3.0 to 3.0; Default setting: 0.0; Unit interval: 0.1

Foil feed adjust

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Modifies the foil feed speed in comparison to the material feed speed.

xx,x %

Setting range: -20.0 to 20.0; Default setting: 0.0

- Decreasing the setting: Foil transport gets faster
- Increasing the setting: Foil transport gets slower

Punch y calibr

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

Compensating of variations between the label sensor and the thermal bar at the printhead.

x.xmm

Setting range: -3.0 to 3.0; Default: 0.0; Step width: 0.1

PS registers

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only in production mode.

■ Parameter only for authorised, trained service personnel.

■ Concerns the following power supplies: HME, ME 500

By means of this parameter, the register contents of the power supply can be changed.

Scanner test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

The scanner test is required for the ex-works adjustment of an optional scanner.

On

Switches the Scanner-Laser on.

Off

Switches the Scanner-Laser off.

Memory card test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Pressing the online button starts a test routine for the Compact Flash Card memory. The following display shows up after successful testing:

```
Memory card test
Card Test O.K.
```

If the memory card is defective or not available, a corresponding error report shows up.

For test purposes, the printer creates a file named TESTXXXX.TXT in the root directory of the card. An already existing file with this name will be overwritten.

Send test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

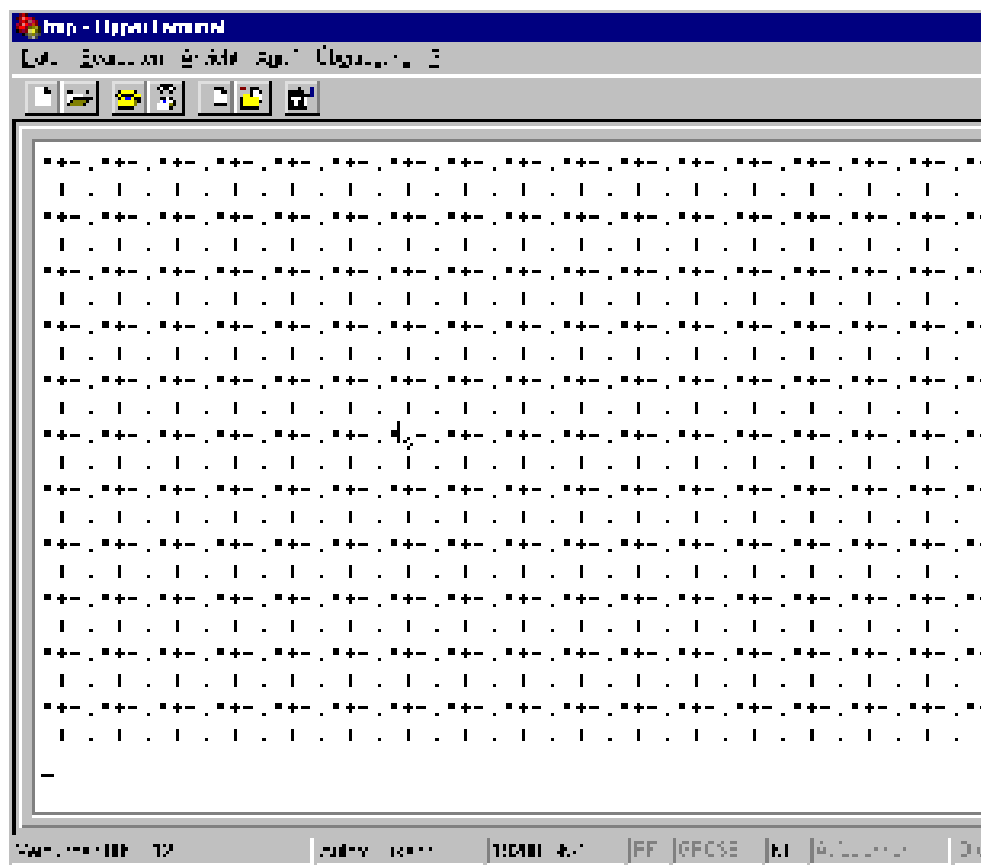
Serial connection

Carrying out the send test requires a terminal program, e.g. the Hyper Terminal contained in Windows95.

Start send test as follows:

1. Start the terminal program and set it to the transmission parameters used by the printer.
2. Press the Online-key to start the send test.

Send test
running . . .



[22] Pattern in the terminal window.

The terminal window should show a regular pattern of four repeating characters. Those characters are continuously sent by the printer.

A transfer fault would be recognizable as irregularity of the pattern. Press the Prog-key to stop testing.

Parallel connection

The parallel data transfer is done bidirectionally in the Nibble Mode. The transfer test requires an aid program which is available to service engineers.

Receive test

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Serial connection

Assumption is a serial data line between PC and printer; the parameter `INTERF.PARAM. > Interface` must be set to „Serial Com1“.

1. Start the MS-DOS-prompt (using Windows).
2. Set the interface to the values adjusted at the printer by means of MS-DOS command `MODE`:

Example of printer settings:

- Baud rate: 19200
- No. of data bits: 8
- Parity: none
- Stop Bits: 1
- Data synch.: RTS/CTS

DOS-Command: *mode COM1 baud=19200 parity=n data=8 stop=1*
(if com1 is the serial port)

3. Press the Online-key to start Receive test.

```
Receive test
0 Bytes
```

4. Send any file to the printer (Condition: com1 = Printer port; anyfile.txt = any file):

copy anyfile.txt com1 (add /b for binary files)

The following shows up on the printer display:

```
Receive test
xxxxx Bytes
```

xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

Parallel connection

Assumption is a parallel data line between PC and printer; the parameter `INTERF.PARAM. > Interface` must be set up on Centronics. Proceed as follows:

1. Run Receive test. To this call the parameter `SERVICE FUNCTION > Receive test` and press the Online-key.

```
Receive test
0 Bytes
```

2. Start the MS-DOS-window (using Windows).
3. Send any file to the printer (Condition: lpt1 = printer port; anyfile.txt = any file):

copy anyfile.txt lpt1 (add /b for binary files)

The following shows up on the printer display:

```
Receive test
xxxxx Bytes
```

xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

Com2 commun. test

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

■ 64-xx/ALX 92x/DPM/PEM/PM 3000: Only with installed options board. After calling this parameter, Com2 puts out all data which are received by the set Easy Plug port.

- See parameter [Print interface](#) on page 56.

If this parameter is set to RS232, data can also be sent in reverse direction (that is, reception by Com2, output by Com1).

Com2 port test

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

■ 64-xx/ALX 92x/DPM/PEM/PM 3000: Only with installed options board. Starts a selftest of the Com2 port.

■ Only works with RS 232.

■ Pins 2/3 and 7/8 at the interface have to be connected (use a plug with shunted pins)!

During the selftest, data transfer and handshake are tested. The test ends with one of the following display messages:

```
Com2 port test
Test failed
```

An error has occurred while testing the interface.

```
Com2 port test
Test O.K.
```

Interface test successfully terminated.

- A setting description for the *64-xx rewriter option* is given in the „User Manual Rewinder 2000“, topic section „Attachment, Setup“, chapter „Settings“ > „Setting up 64-xx“ > [Adjusting the sensor](#) .

- A setting description for the dancer arm of the *ALX 92x backing paper rewinder* can be found in the Service Manual, topic section „Service Electronics“, chapter „Settings“ > [Light sensor at the rewinder dancer lever \(ALX 92x\)](#) .

loose xxx

Setup of the loose dancer arm (xxx = actual sensor value).

tightened xxx

Setup of the tightened dancer arm (xxx = actual sensor value).

The setting follows in both cases this scheme:

1. Bring the dancer arm to its loose position.
2. Press the cut button (ALX 92x: Apply button)
3. Pull the dancer arm tight.
4. Press the Online button.

Rewinder values

64-xx

ALX 92x

■ 64-xx: Only with „Rewinder 2000“ installed.

■ ALX 92x: Only valid for backing paper rewinder.

Shows the values of the position sensor at the rewinder dancer arm in middle/tightened and in loose position.

Rewinder values

xxx <----- text -----> yyy

- xxx = Sensor value in *loose* position
- text = Sensor type (Opto = light barrier; Hall = hall sensor; ???? = no explicit sensor type)
- yyy = Sensor value in one of the following positions:
 - *Middle* for 64-xx with „Rewinder 2000“ and for ALX 92x with R04A rewinder motor output stage (--> 01/2012, recognizable with `SYSTEM PARAMETER >MODULE FW VERS. > Rewinder driver = „V2-T36“`)
 - *Tightened* for ALX 92x with M5A rewinder motor output stage (01/2012-->, recognizable with `SYSTEM PARAMETER >MODULE FW VERS. > Rewinder driver = „V4-T5“`)
- For detailed information about setting the rewinder dancer arm refer to:
 - ALX 92x: Service manual, topic section „Electronics Gen. 3“, „Settings“ > [Light sensor at the rewinder dancer lever \(ALX 92x\)](#) 
 - Rewinder 2000: Technical Manual Rewinder 2000, topic section „Attachment, Setup“, chapter „Settings“ > „Setting up 64-xx“ > [Adjusting the sensor](#) 

SERVICE DATA

> MODULE FW VERS.

System version

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the firmware version number.

System revision

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows a consecutive revision number.

■ Only for factory-internal use.

System date

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the date, at which the firmware was generated.

Bootloader

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the bootloader version number.

uMon

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the bootloader version number.

Feed driver

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Applied PIC version on the output stage board driving the feed motor.

Foil driver

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Applied PIC version on the output stage board driving the foil feed motor.

Head driver

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Applied PIC version on the output stage board driving the head motor.

Peripheral driver

64-xx

Only with mounted (optional) peripheral output stage board.
Applied PIC version on the output stage board driving the peripheral motor.

64-xx: Applied PIC version on the output stage board driving the deflection motor.

Rewinder

64-xx	ALX 92x
-------	---------

Only 64-xx Dispenser only.
Applied PIC version on the rewinder motor output stage board.

USI interface

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with USI mounted.
Applied PIC version on the USI.

Applicator int.

(Applicator Interface)

ALX 92x

Only with mounted Applicator Interface.
Applied PIC version on the Applicator Interface.

Dispenser lift

64-xx

Only 64-xx: Only 64-xx dispenser version
Applied PIC version on the lift motor output stage.

Dispenser feed

64-xx

■▶ 64-xx: Only 64-xx dispenser version

Applied PIC version on the dispenser rewinder and feed motor output stages.

> OPERATION DATA

Serv. operations

64-xx ALX 92x DPM PEM ALX 73x (PMA)

Shows the number of service operations. The counter is increased by calling the parameter SERVICE FUNCTION > Service = yes. Maximum value: 4 billions.

Headnumber

64-xx ALX 92x DPM PEM ALX 73x (PMA)

Shows the number of printhead changes. The counter is increased by calling the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Roll number

64-xx ALX 92x DPM PEM ALX 73x (PMA)

Shows the number of exchanged print rollers. The counter is increased by calling the parameter SERVICE FUNCTION > Roller exchange = yes. Maximum value: 4 billions.

Cutter number

64-xx

■▶ Only with mounted and activated cutter.

Shows the number of exchanged cutters. The counter is increased by calling the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Head run length

64-xx ALX 92x DPM PEM ALX 73x (PMA)

Shows the total "covered distance" of the printhead. The counter is reset with each calling of the parameter SERVICE FUNCTION > Cutter exchange = yes. Maximum value: 4 billions.

Roll run length

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the total "covered distance" of the print roller. The counter is reset with each calling of the parameter `SERVICE FUNCTION > Roller exchange = yes`. Maximum value: 4 billions.

Cuts on knife

64-xx

Only with mounted and activated cutter.

Shows the number of cuts done by one knife. The counter is reset with each calling of the parameter `SERVICE FUNCTION > Cutter exchange = yes`. Maximum value: 4 billions.

Tot. mat. length

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the total "covered distance" of the feed roller. In comparison to the counter Roll run length, this counter is not reset after a roller exchange. Maximum value: 4 billions.

Tot. foil length

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the total "covered distance" of the ribbon roller.

Total cuts

64-xx

Only with mounted and activated cutter.

Shows the number of cuts done by all knives. In comparison to the counter Cuts on knife, this counter is not reset after a knife exchange. Maximum value: 4 billions.

Total head moves

64-xx	ALX 92x	DPM	PEM
-------	---------	-----	-----

Only with mounted and activated cutter.

Shows the counter for every up and down movement of the printhead. Maximum value: 4 billions.

Head strobes

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the counted head strobes, which are a measure for the service life of the printhead. A strobe is counted for each line in which at least one dot is printed. Maximum value: 4 billions.

Head temperature

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the current printhead temperature in °C.

Foil diameter

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the calculated foil diameter: A measurement routine calculates the actual ribbon roll diameter with an exactness of 7.5%.

The parameter `SYSTEM PARAMETER > Foil end warning` can be used to set a critical foil roll diameter. If the foil roll diameter equals this value, a message appears on the printer display.

- See parameter [Foil end warning](#) on page 75.

64-xx, DPM / PEM, ALX 92x:

At the (optional) USI is set a signal indicating the near foil end (additionally to the display warning).

Dispensing cycl.

(Dispensing cycles)

64-xx	ALX 92x	DPM
-------	---------	-----

■ 64-xx: Dispenser version only.

Shows the number of dispensed labels.

Operation time

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the elapsed time since the last switch-on of the machine.

> POWERSUPPLYDATA**Type**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the type of power supply, e.g. „Blue Mountain“.

PS temperature

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the current power supply temperature in °C. If for any reason the function is not supported, „??? °C“ is displayed.

Version

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Availability depends on the type of power supply.
Shows the power supply version.

Serial number

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Availability depends on the type of power supply.
Shows the power supply serial number.

Standby+On time

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Availability depends on the type of power supply.
Shows the power supply operation time including the standby time.

Standby time is the duration of time, during which the printer was switched on with the power switch, but *not* with the remote on/off switch on the operation panel.

Availability depends on the type of power supply. At the 64-xx, the same time as under

SERVICE DATA > POWERSUPPLY DATA > On time

The operation time tells nothing about the printing time of the printer.

On time

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

▣▣▣▣► Availability depends on the type of power supply.

Shows the operation time of the printer. This does *not comprise* the standby time (see SERVICE DATA > POWERSUPPLY DATA > Standby+On time).

▣▣▣▣► The operation time tells nothing about the printing time of the printer.

> CPU BOARD DATA**CPU identifier**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the designation of the applied processor.

PCB revision

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the layout revision and part number of the CPU board.

FPGA version

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the FPGA version.

MAC address

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the MAC Address, an unchanging board address, which is programmed by the board manufacturer.

Serial number

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Serial number: Is programmed by the board manufacturer.

Production date

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Production date: Is programmed by the board manufacturer.

64-xx – DPM – PEM – ALX 92x – ALX 73x (PMA)

PCB part number

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the part number of the board without components.

Board part numb.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the part number of the board with components.

Manufacturer

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode.

Shows the board manufacturer.

Work place

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode.

Shows the printer work place.

Company name

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Parameter appears only in production mode.

Shows the company name.

> DISPLAY DATA**Display version**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the *version number* of the operation panel.**Display SerialNr**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the *serial number* of the operation panel.

Remote disp. vers.

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only if remote operation panel is connected.

Shows the *version number* of the remote operation panel.

Remote disp. #

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only if remote operation panel is connected.

Shows the *serial number* of the remote operation panel.

> MEMORY DATA**Ram memory size**

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the available RAM memory size.

Flash mem size

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the available Flash memory size. The abbreviation which is displayed behind the memory size indicates the manufacturer of the applied Flash-RAM:

Abbreviation	Manufacturer
MX	Macronix
AMD	AMD
FUJ	Fuji

[13] The displayed abbreviations indicate the manufacturer of the Flash-RAM.

CompactFlash

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Only with plugged-in CompactFlash card

Shows the memory size of the CompactFlash card:

CompactFlashCompactFlash
971 MB / 1024 MB (c:)

- 971 MB of 1024 MB are free

- Drive letter, which is assigned to the CompactFlash card (here: „C:“)
- Assigning a drive letter: see chapter > [DRIVEASSIGNMENT](#) / on page 73.

SD card

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with plugged-in SD card

Shows the memory size of the SD card:

SD card
971 MB / 1024 MB (c:)

- 971 MB of 1024 MB are free
 - Drive letter, which is assigned to the SD card (here: „C:“)
- Assigning a drive letter: see chapter > [DRIVEASSIGNMENT](#) / on page 73.

USB

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

■ Only with plugged-in USB stick

Shows the memory size of the USB stick:

USB
971 MB / 1024 MB (c:)

- 971 MB of 1024 MB are free
 - Drive letter, which is assigned to the USB stick (here: „C:“)
- Assigning a drive letter: see chapter > [DRIVEASSIGNMENT](#) / on page 73.

Space for Jobs

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the memory size, which is available for print jobs.

Max. Labellength

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the maximum printable label length, which results from the memory allocation.

Default values

64-xx	ALX 92x	DPM	PEM	ALX 73x (PMA)
-------	---------	-----	-----	---------------

Shows the setting of parameter [SPECIAL FUNCTION](#) > Default values.



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General information about status reports

Area of application

This description of the status reports is valid for the print components of all the devices listed in the header bar and their options.

Display of status reports

During operation, tests are continually carried out to determine whether a malfunction has occurred. If a malfunction is detected, the corresponding status report appears on the display.

- 64-xx / ALX 92x / DPM / PEM / PM 3000 only:
If the parameter `SYSTEM PARAMETER > Signal buzzer` is set to *On*, an additional tone signal is given.
- 64-xx / ALX 92x / DPM / PEM / PM 3000 with “Gen. 3” electronics only:
During a status message, the background light changes from green to red.

The status can be requested using the serial interface (see Easy-Plug command `#!Xn`).

Display

The status report shown on the display is assembled as follows:

Status	xxxx
TextTextTextTextTextTe	

- *Status*: Is replaced by either „PrintStatus“ or „QueueStatus“.
 - *PrintStatus* means, the error is caused by malfunction of the printer, independent of the sent print job. This is a message of the printer control.
 - *QueueStatus* means, the error is caused by a faulty Easy-Plug command in the print job. This is a message of the Easy-Plug interpreter.
- *xxxx* signifies a status number in the range from 0001 to 9999. Using this number the user can look up the status of the printer in the following directory of status reports.
- *TextTextTextText* stands for a short display text which belongs to each status number. In many cases, the status of the printer can be identified just on the basis of this short display text.

More detailed information about the status reports and any measures which may need to be taken is given in the descriptions of the status reports which follow the list of status reports.

Example

PrintStatus	8704
IDM Init. Error	

Acknowledging status reports

Self-acknowledging

Self-acknowledging status reports only show an event taking place in the device, and are simply for informing the operator about this event. The message appears for a short period on the display and is accompanied by

a short signal tone. The device continues to operate without any intervention from the user.

■■■■➔ Pay attention to each message in order to punctually prevent malfunctions.

Acknowledging

Status reports which are to be acknowledged must be confirmed by the operator as the activating event or malfunction endangers normal operation. The message appears on the display for so long until the malfunction has been corrected and acknowledged with the Enter button. A short signal tone is also given when the message appears.

Disabling

Messages which are shown following serious errors. This condition can be ended with a "warm start" (press Cut+Online+Feed buttons) or by switching off the printer.

Self-acknowledging	Header not underlined
<u>Acknowledging</u>	Header underlined once
<u><u>Disabling</u></u>	Header underlined twice

Tab. 1 The way of acknowledgment, a status message requires, can be detected by the text format used for the header. The gravity of a status message increases with the number of underlines.

General software errors

Errors in the firmware can never be completely ruled out. Such errors are described in the error directory as "General software errors". They can only be corrected by the manufacturer.

➔ If errors which are described in the error directory as "General software errors" repeatedly occur, please notify the manufacturer, quoting the error number and the circumstances in which the error occurred.

Easy-Plug errors

Errors in the Easy-Plug code can be detected much easier with firmware version x.33 or higher. This requires the following setting:

SYSTEM PARAMETERS > EasyPlug error = "Strict handling"

The Easy-Plug command, which caused the error, is displayed after approx. 2 seconds in the lower display line. The displayed text is up to 30 characters long and is scrolled automatically.

If a single character caused the error, this character is marked with „>> <<„ in the display text, to facilitate the detection.

By pressing the cut button, the display can be toggled between error message and Easy-Plug command text.

Unspecific errors

Some errors can have more than one cause. To be able to find the specific reason for such an error, it is important that it can be reproduced.

➔ Send the following items of information as complete as possible to the manufacturer – preferably as files:

- *Layout* and/or *printjob*, which makes the status message appear
 - *Parameter configuration* of the printer, when the error occurs
 - *Log file* of the printjob until the error occurs
- Use parameter **SPECIAL FUNCTION > Parameter to CF**, to save the current parameter configuration.
- Use parameter **SERVICE FUNCTION > EasyPlug monitor**, to send the received Easy-Plug data to a serial interface. Alternatively, with some printer types, log files of the printjob can be saved on memory card (**SPECIAL FUNCTION > Parameter to CF**).

Our Technical Support will try hard to find a solution by reproducing the situation which caused the error.

Not listed status reports

Some status reports are not shown in the list of status reports. They provide developers of the printer firmware and trained service personnel with information about special conditions, particularly with regards to the printer firmware.

- If your printer displays status reports which are not included in the following list, please refer to the authorised service office. Make a note of the status number and the circumstances in which the message occurred.

Listing of all Status reports

1000 No new command

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1001 Parameter Table

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1002 Comm. sorting

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1003 Too many slashes

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1004 Slash w/o param.

Status General software error

Measure → Acknowledge by pressing the on-line button.
→ Please read the notes in section [General software errors](#) .

1005 2 same commands

Status General software error

Measure → Acknowledge by pressing the on-line button.
→ Please read the notes in section [General software errors](#) .

1006 Letter incorrect

Status General software error: self-acknowledging

Measure → Please read the notes in section [General software errors](#) .

1007 Command incorr.

Status Unknown command.

Measure → Check Easy Plug sequence.

1008 Subcomm. incorr.

Status Unknown letter in a subcommand.

Measure → Check Easy Plug sequence.

1009 Param. tab inc.

Status General software error

Measure → Acknowledge by pressing the on-line button.
→ Please read the notes in section [General software errors](#) .

1010 #ER x #Q !

Status One or more illegal commands between #ER and #Q.

Measure → Check transmitted Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1011 #ER missing

Status One or more format commands without leading #ER (self-acknowledging)

Measure → None. The command is still carried out.
→ Please read the notes in section [Easy-Plug errors](#) .

1012 #IM x #Q !

Status One or more illegal commands between #IM and #Q.

Measure → Check Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1013 Comm. flag inc.

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1014 Uninit integer

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1015 Uninit float

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1016 Uninit string

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1017 Uninit discr

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1018 Too many discr

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1019 Uninit BCD para.

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1020 Too much image

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1021 Uninit image par

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1022 Too many files

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Pay attention to the notes in section [General software errors](#) .

1023 Uninit File Para

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1024 Com. too long

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1025 Com twice there

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please pay attention to the notes in chapter [General software errors](#) .

1026 Comm. w/o. flag

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1027 Uninit parameter

Status Parameter could not be initialised.

Measure → Acknowledge by pressing the Online button.

1028 Parameter uninit

Status General software error

Measure → Acknowledge by pressing the Online button.
→ Please read the notes in section [General software errors](#) .

1029 Param. incorr.

Status Incorrect parameter in the command.

Measure → Check Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1030 Command incorr.

Status Error during the command interpretation.

Measure → Check Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1031 Too many slashes

Status Too many parameters between two slashes.

Measure → Check Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1032 Incorrect char.

Status Parameter contains an invalid character.

Measure → Check Easy Plug sequence.
→ Please read the notes in section [Easy-Plug errors](#) .

1033 Uninit flash par**Status** General software error**Measure** → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .**1034 Uninit restrict****Status** A „restricted string“ parameter could not be initialized.**Measure** → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .**1035 Uninit combi****Status** General software error. A combi parameter could not be initialized.**Measure** → Confirm by pressing the Online button.
→ Please read the notes in section [General software errors](#) .**1036 Wrong combi para****Status** General software error. A combi parameter could not be initialized.**Measure** → Confirm by pressing the Online button.
→ Please read the notes in section [General software errors](#) .**1037 Software error****Status** General software error**Measure** → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .**1038 Software error****Status** General software error**Measure** → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .**1087 OLV not active****Status** OLV- specific Easy Plug commands have been used (#OLVI or #OLVD), *without* having set the printer to OLV use at first.**Measure** → Set the printer to OLV use.
○ See parameter INTERF. PARAM > COM2 PORT > Function Option.**1088 No realtimeclock****Status** RTC-specific Easy Plug commands have been used (#YS or #YC), *without* having a RTC installed.**Measure** → Install a RTC.
○ For details refer to the Service Manual, topic section "General Service", chapter "Assembling accessories" / "Option board".

1089 Seek Fkt. Error

Status General software error. An error occurred while processing the function „seek“ in the internal file system of the printer.

Measure → Confirm by pressing the Online button.
→ Please read the notes in section [General software errors](#) .

1090 Incomplete Job

Status The actual print job was not terminated by the #Q command. In other words, after a start command #ER for a label format follows another #ER command without the first format being terminated by #Q.

Measure → Confirm by pressing the Online button.
→ Terminate the print job with a #Q command.

1091 Wrong var field

Status An error occurred while interpreting the text string of a variable data field. The error could e.g. be caused by a #YT or a #YB command (Easy Plug). Self-acknowledging error.

Measure → Check the text strings of variable data fields.

1092 Rename file

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1093 Delete file

Status File cannot be deleted.

Measure → Check whether the file name is written correctly; check whether the file is write-protected.

1094 More than 3 figs

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1097 Out of memory

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1099 File end

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1101 Wrong time/date

Status Easy-Plug command #RTC (set realtime clock): invalid date or wrong date/time format.

Measure → Check command #RTC in the current printjob.
→ Please read the notes in section [Easy-Plug errors](#) .

1102 Counter offset

Status Applies to all Easy-Plug commands with counter function, e. g. #YT: A non-valid digit was used in the offset.

Measure → Check all commands with counter function in the current printjob.
→ Please read the notes in section [Easy-Plug errors](#) .

1110 Opening Bracket

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1111 Closing Bracket

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1112 Para: No Value

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1113 No Default Value

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1114 < Limit value

Status A sent Easy Plug command contains a value which exceeds the admissible range at the bottom limit. The faulty value is replaced automatically by a default value matching the limits.

Example: #YT109/-1/. The value -1 has been assigned to the parameter d. Admissible for d are the values 0, 1, 2, 3. Therefore, -1 exceeds the value range at the bottom limit.

Measure → Check the Easy Plug command on admissible values and correct them if necessary.
→ Please read the notes in section [Easy-Plug errors](#) .

1115 > Limit value

Status A sent Easy Plug command contains a value which exceeds the admissible range at the top limit. The faulty value is replaced automatically by a default value matching the limits.

Example: #YT109/5/. The value 5 has been assigned to the parameter d. Admissible for d are the values 0, 1, 2, 3. Therefore, 5 exceeds the value range at the top limit.

Measure → Check the Easy Plug command on admissible values and correct them if necessary.
→ Please read the notes in section [Easy-Plug errors](#) .

1120 Incorr. logo no.

Status Logo no. is invalid because it is outside of the address field. (self-acknowledging)

Measure → Check whether the logo no. has been given as being smaller than 0 (zero) or larger than 255.

1121 Logo exists

Status Logo already exists.

Measure → Change the designation of the logo; repeat saving.

1122 Creating logo

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1123 Rename logo

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1124 Logo file

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1125 Delete error

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1126 File creation

Status Faulty Easy-Plug code. A file could not be created. The error may e.g. be caused by a faulty filename or by too less printer memory.

Measure

- Check all used filenames for length, applied characters, etc. Change the name if faulty.
- Check the printer for enough memory.
- Please read the notes in section [Easy-Plug errors](#) .

1127 File format

Status A file name doesn't match the (DOS-) filename convention.

Measure → Check all used filenames for length, applied characters, etc. Change the name if faulty.

1128 File exists

Status Faulty Easy-Plug code. A file is ought to be loaded into the printer memory via #DF command. The command was used without adding the parameter "O" for "Overwrite", but a file already exists under the given name.

Measure

- Rename one of both files or set the parameter "O".
- Please read the notes in section [Easy-Plug errors](#) .

1130 Float overflow

Status Number of figures is too high for a floating comma variable.

Measure

- Switch printer off and then back on again after thirty seconds.
- Reduce the number of figures.

1131 Logo cache full

Status A logo or several logos was/were sent which is/are too huge for the logo buffer.

Measure

- Switch printer off and then back on again after thirty seconds.
- Reduce the logo size.

1140 Line too long

Status Error during conversion from EPT into BIN: permitted line length exceeded.

Measure → Reduce line length.

1141 Para. incorr. BI

Status Error during processing of a Bit Image parameter.

Measure → Acknowledge by pressing the on-line button.

1150 Integer overflow

Status Too many figures for an integer variable.

Measure

- Switch printer off and then back on again after thirty seconds.
- Reduce the number of figures.

1160 String too long

Status A string parameter exceeds the maximum string length of 256 characters (1024 characters in 2-dimensional bar codes respectively).

Measure → Reduce the number of characters in the string.

1170 X Pos > width

Status Faulty Easy-Plug code. X position exceeds permitted maximum value.

Result The previously set print offset is retained.

Measure → Reduce value for X position.
→ Please read the notes in section [Easy-Plug errors](#) .

1171 X Pos < zero

Status Faulty Easy-Plug code. Value for X position < zero.

Result The previously set print offset is retained.

Measure → Check value for X position for signs.
→ Please read the notes in section [Easy-Plug errors](#) .

1172 Y Pos > length

Status Faulty Easy-Plug code. Y position exceeds the label length.

Result The previously set print offset is retained.

Measure → Reduce value for Y position.
→ Select a longer label.
→ Please read the notes in section [Easy-Plug errors](#) .

1173 Y Pos < zero

Status Faulty Easy-Plug code. Value for Y position < zero.

Result The previously set print offset is retained.

Measure → Check value for Y position for signs.
→ Please read the notes in section [Easy-Plug errors](#) .

1174 Max width: right

Status Maximum label width, right, reached. Elements such as character, line or logo do not fit into the physical print format (self-acknowledging)

result Only elements which completely fit into the print format are printed.

Measure → Alter value for width or position of elements.
→ Please read the notes in section [Easy-Plug errors](#) .

1175 Max width: left

Status Faulty Easy-Plug code. Maximum label width, left, reached. Elements such as character, line or logo do not fit into the physical print format (self-acknowledging)

result Only elements which completely fit into the print format are printed.

Measure → Alter value for width or position of elements.
→ Please read the notes in section [Easy-Plug errors](#) .

1176 Max length: top

Status Faulty Easy-Plug code. Maximum label length, top, reached.

Measure → Correct label layout: Position the drawing elements in a way that they fit on the label or modify the label length.
→ Please read the notes in section [Easy-Plug errors](#) .

1177 Max length: bot.

Status Faulty Easy-Plug code. Maximum label length, bottom, reached.

Measure → Correct label layout: Position the drawing elements in a way that they fit on the label.
→ Please read the notes in section [Easy-Plug errors](#) .

1178 x Dots < zero

Status An Element of the Easy Plug format is located at an X position < 0.

Measure → Adjust the Easy Plug format.

1200 GetRLE reset st

Status (number of bytes) * (number of lines) does not correspond to the file length.

Measure → Switch printer off and then back on again after thirty seconds.

1201 GetRLE error st

Status GetRLE byte has error status.

Measure → Switch printer off and then back on again after thirty seconds.

1210 itoa Short Strin

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1240 New FS>E

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1241 New Read Pointer

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1242 New FE in job

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1243 New delete order

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1244 New wrong pos.

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1245 New no space

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1246 New HP no space

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1247 Out of memory

Status Faulty memory assignment for print jobs.

Measure → Please read the notes in section [Unspecific errors](#) .

1260 TimeDate string

Status General software error

Measure → Acknowledge by pressing the on-line button.

→ Please read the notes in section [General software errors](#) .

1270 #-comm. invalid

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1272 Wrong #!..

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!A..". The specified parameter value exceeds the admissible value range (0 to 31).

Measure → Specify an admissible parameter value.

→ Please read the notes in section [Easy-Plug errors](#) .

1273 Wrong #!C..

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!C..". The specified parameter value exceeds the admissible value range (A, F).

Measure → Specify an admissible parameter value.
→ Please read the notes in section [Easy-Plug errors](#) .

1276 #!P wrong number

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!P..". The specified parameter value exceeds the admissible value range (0 to 31).

Measure → Specify an admissible parameter value.
→ Please read the notes in section [Easy-Plug errors](#) .

1277 Wrong #!S..

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!S..". The specified parameter value exceeds the admissible value range (P, R).

Measure → Specify an admissible parameter value.
→ Please read the notes in section [Easy-Plug errors](#) .

1278 Wrong #!X..

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!X..". The specified parameter value exceeds the admissible value range (S, B, P).

Measure → Specify an admissible parameter value.
→ Please read the notes in section [Easy-Plug errors](#) .

1279 #!X wrong number

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!X..". The specified parameter value exceeds the admissible value range.

Measure → Specify an admissible parameter value.
→ Please read the notes in section [Easy-Plug errors](#) .

1282 Spooler FB > L

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1285 #!-comm. incorr.

Status Faulty Easy-Plug code. Faulty use of the immediate command "#!..!". The specified letter is unknown.

Measure → Specify an admissible letter.
→ Please read the notes in section [Easy-Plug errors](#) .

1290 Label limit

Status Faulty Easy-Plug code. Value for x or y position exceeds the label limit.

Measure → Reduce the value for the x or y position.
→ Please read the notes in section [Easy-Plug errors](#) .

1291 Draw field

Status Faulty Easy-Plug code. Function call, drawing object, unsuccessful.

→ Please read the notes in section [Easy-Plug errors](#) .

1300 Invalid Command

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1301 Table full

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1310 Wrong Field ID

Status The error can have several causes.

Measure → Please read the notes in section [Unspecific errors](#) .

1320 No Default Value

Status Faulty Easy-Plug code.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1321 Bar Code Object

Status Faulty Easy-Plug code regarding the declaration of a bar code.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1322 Logo Object

Status Faulty Easy-Plug code regarding the declaration of a logo.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1323 Line Object

Status Faulty Easy-Plug code regarding the declaration of a line.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1324 Rectangle Object

Status Faulty Easy-Plug code regarding the declaration of a rectangle.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1325 Truedoc Object

Status The error can have several causes.

Measure → Please read the notes in section [Unspecific errors](#) .

1326 Fix Field Creati

Status Faulty Easy-Plug code regarding the declaration of a field.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1327 Update Field Cre

Status Faulty Easy-Plug code regarding the declaration of a field.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1328 Var Field Creati

Status Faulty Easy-Plug code regarding the declaration of a field.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1329 Count Field Crea

Status Faulty Easy-Plug code regarding the declaration of a counting field.

Measure → Please read the notes in section [Easy-Plug errors](#) .

1330 Create clk. field

Status General software error

Measure → Please read the notes in section [General software errors](#) .

1331 Field type inv.

Status Invalid field type

Measure → Acknowledge by pressing the Online button.

1332 Field length inc.

Status General software error

Measure → Switch printer off and then back on again after thirty seconds.

→ Please read the notes in section [General software errors](#) .

1333 Logo not there

Status Selected logo does not exist.

Measure → Check file name / existence of the logo.

1334 #YV Data incorr.

Status Illegal entries for a #YV field (variables data field).

Measure → Acknowledge by pressing the Online button.

→ Correct data.

→ Please read the notes in section [Easy-Plug errors](#) .

1335 #YV Field cont.

- Status** Content of the #YV field (variables data field) could not be pasted.
- Measure** → Acknowledge by pressing the Online button.
→ Please read the notes in section [Easy-Plug errors](#) .

1336 #YV no. incorr.

- Status** #YV field (variables data field) with the given no. not found.
- Measure** → Acknowledge by pressing the Online button.
→ Check the number of the #YV field.
→ Please read the notes in section [Easy-Plug errors](#) .

1390 Web width zero

- Status** The printer was set to printing several label rows (Easy Plug command #ER, $n > 1$); but the label width was by fault set to zero ($b = 0$).
- Measure** → Correct the #ER command regarding the setting of parameter b.
→ Please read the notes in section [Easy-Plug errors](#) .

1391 Web > Width

- Status** The printer was set to printing several label rows (Easy Plug command #ER, $n > 1$); but both or one of the parameters n and b are set in a way that $n * b$ (label row width * no. of rows) exceeds the material width.
- Measure** → Correct the #ER command regarding the setting of parameters n and b .
→ Please read the notes in section [Easy-Plug errors](#) .

1392 Job memory full

- Status** The error can have several causes.
- Measure** → Please read the notes in section [Unspecific errors](#) .

1393 Job struct creat

- Status** The error can have several causes.
- Measure** → Please read the notes in section [Unspecific errors](#) .

1394 Invalidation

- Status** General software error
- Measure** → Switch printer off and then back on again after thirty seconds.
→ Please read the notes in section [General software errors](#) .

1395 Label too wide**Status**

A printjob contains an #IM-command which sets the label width to a measure exceeding the maximum print width. The maximum print width depends on the printer type.

- Refer to the user manual, topic section „Specifications“ for the maximum label width.

Measure

- Reduce the label width set by the #IM-command in the concerned print job, until the label width matches the maximum print width.
- Please read the notes in section [Easy-Plug errors](#) .

1396 Label too long**Status**

Label length setting exceeds the maximum label length. The maximum label length depends on the memory configuration of the printer.

- The info-printout „Memory Status“ shows among other data the maximum label length. Read more about info-printouts in topic section „Info-Printouts and Parameters“.

Measure

- Reduce the label width setting.
- Please read the notes in section [Easy-Plug errors](#) .

1397 Label too short**Status**

The label length defined in the #IM command is smaller than the minimum admissible length. The label length is set to the minimum value.

Measure

- Correct the length value in the label layout definition.
- Please read the notes in section [Easy-Plug errors](#) .

1398 Label too small**Status**

The label width defined in the #IM command is smaller than the minimum admissible width. The label width is set to the minimum value.

Measure

- Correct the width value in the label layout definition.
- Please read the notes in section [Easy-Plug errors](#) .

1404 UTF8 data wrong**Status**

Character code > 0xffff

Measure

- Check/change the character code.

1470 X-Offset**Status**

The x-position of a layout element (graphics, text, ...) is beyond the label margin. The element is shifted automatically to the first admissible position at the correct side of the margin.

Measure

- Check the x-positions of the layout elements and change them, if necessary.
- Please read the notes in section [Easy-Plug errors](#) .

1471 Y-Offset

Status The y-position of a layout element (graphics, text, ...) is beyond the label margin. The element is shifted automatically to the first admissible position at the correct side of the margin.

Measure → Check the y-positions of the layout elements and change them, if necessary.
→ Please read the notes in section [Easy-Plug errors](#) .

1501-1535 Messages, which can occur in ZPL emulation mode

This section lists all error messages that may appear when using the ZPL II® interpreter function.

1501 Unknown MLI Cmd

Error level 1

Status An uninterpretable command was encountered.

Measure → Check, if the printjob was proceeded correctly. If yes, ignore the message, if no, modify the printjob.

1502 MLI Hash Error

Error level 1

Status General software error.

Measure Read chapter [General software errors](#)  on page 8.

1503 Filename Too Long

Error level 1

Status Filename is too long.

Measure → Rename the file with a shorter name.

1504 Param > Max

Error level 1

Status Parameter exceeds the maximum value defined

Measure → Shorten the parameter.

1505 Param < Min

Error level 1

Status Parameter is shorter than the admissible minimum value allowed.

Measure → Modify the parameter.

1506 No Previous

Error level 1

Status Graphics command is to set current row data to previous row data, but previous row data doesn't exist.

Measure →

1507 Not enough data**Error level** 1**Status** Data for graphics command is not enough.**Measure** → Check and modify graphics data.**1508 String Too Long****Error level** 1**Status** String characters exceeds the maximum number of characters which the particular string parameter can take.**Measure** → Check and modify the command.**1509 Wrong Byte Cnts****Error level** 1**Status** The row size or total size parameters is not valid (equals 0). Occurs when download graphic or download font commands in process.**Measure** → Check and modify the command.**1510 Wrong Param****Error level** 1**Status** Control characters are not allowed for discrete parameter (single letter parameter).**Measure** → Check and modify the command.**1511 Bar Parm Error****Error level** 1**Status** Parameters to a barcode command is wrong or does not conform with specs.**Measure** → Modify the bar code command.**1512 Code128 Mode Err****Error level** 1**Status** Code128 barcode command specifying mode type other than 'AUTO'.**Measure** → Modify the bar code command.**1513 Wrong Mode****Error level** 2**Status** Coda block barcode command specifying mode type other than 'F'.**Measure** → Modify the bar code command.

1514 ^BX Parm Err.**Error level** 2**Status** Data Matrix bar code command specified an escape sequence character.
This is not supported in this printer.**Measure** → Modify the bar code command.**1515 Conv to ECC200****Error level** 1**Status** Data Matrix barcode command specified non ECC200 level. Program is
attempting to convert to ECC200.**Measure** → Modify the bar code command.**1516 Bad Drive: x****Error level** 2**Status** The drive selected is not a valid drive. (We support only 'R' and 'B').**Measure** → Select a valid drive.**1517 Mask String: x****Error level** 2**Status** The mask string used in ^SF command is not supported.**Measure** → Modify the print job.**1518 Bad Format: x****Error level** 2**Status** The graphic format selected is not supported by Avery ZPL Emulation
(Compressed binary and PNG format).**Measure** → Convert graphic into a supported format.**1519 Cmd Init Error****Error level** 1**Status** General software error.**Measure** Read chapter [General software errors](#) □ on page 8.**1520 Unsupported Cmd****Error level** 1**Status** Non critical commands that is not supported by this printer.**Measure** → Check and modify the commands in the printjob.**1521 Unsupported: x****Error level** 2**Status** Critical commands that is not supported by this printer.**Measure** → Check and modify the commands in the printjob.

1522 Bad Char Set x

Error level 2

Status The character set selected by ^CI command is not supported.

Measure → Replace the character set by a supported set.

1523 Cmd Parm Error

Error level 1

Status Error encountered while parsing command parameter.

Measure → Check and modify the commands in the printjob.

1524 d/mm not chg x

Error level 2

Status Command attempting to lower print density assuming a 200 dpi printer.

Measure → Check and modify the commands in the printjob.

1525 USI not exist

Error level 1

Status The printer is not equipped with a USI board.

Measure → Modify the printjob.

→ Install a USI board.

1526 Can't Off CV

Error level 1

Status Command attempting to turn off barcode validations.

Measure → Check and modify the commands in the printjob.

1527 Offset illegal

Error level 2

Status RTC command specified a clock offset not supported by this printer (possibly a negative offset).

Measure → Correct the command.

1528 Language illegal

Error level 2

Status Language specified by RTC command is not English or German.

Measure → Correct the command.

1529 Invalid Prn Mode**Error level** 1**Status** Print modes other than cutter mode are selected (Tear-off, Rewind or Peel-off modes in ^MM command).**Measure** → Correct the command.**1530 Inc free str mem****Error level** 2**Status** Not enough free store memory.**Measure** → Increase the value set in **SYSTEM PARAMETER > Free store size** (at least 2048 Kbytes).**1531 Inc RAM disc****Error level** 2**Status** Not enough RAM disc.**Measure** → Increase the value set in **SYSTEM PARAMETER > Ram disk size** (at least 2048 Kbytes).**1532 No Fixfont****Error level** 2**Status** No fixfonts in Flash.**Measure** → Load fixfont.**1533 No Speedo Font****Error level** 2**Status** No Speedo font in Flash.**Measure** → Load speedo font.**1534 ^XA missing****Error level** 1**Status** Command should be placed inside of ^XA...^XZ pair.**Measure** → Modify the printjob.**1535 ^XZ missing****Error level** 1**Status** Command should be placed outside of ^XA...^XZ pair.**Measure** → Modify the printjob.**1561 Wrong Font Format****Status** Format error in a Fixfont file.**Measure** → Check font file.

2000-2009 Messages caused by Easy-Plug variables

2000 Double var name

Status Attempt to define a variable with an already existing name.

Measure → Choose another name for the variable.

2002 Var. data length

Status The maximum allowed length of a variable was exceeded.

Measure → Correct the variable length.

2003 Expr. bracket

Status The number of open and close brackets in the expression is not equal.

Measure → Check the brackets in the expression and correct their number.

2004 Exp. quotemark

Status The number of quotemarks in the expression is *not* a multiple of two.

Measure → Check the quotemarks in the expression and correct their number.

2005 Exp. comma pos.

Status Unexpected comma in the expression.

Measure → Check the syntax of the expression regarding commas.

2006 Exp.functionname

Status A wrong function name is used in the expression.

Measure → Check, if the function names used in the expression are spelled correctly and if the functions exist. Change the function name.

2007 Exp.fct.paratype

Status A wrong parameter type in an expression was detected.

Example: SubStr("Text",0,"A") would provoke this message, because "A" is not a number.

Measure → Check the expressions. Correct the wrong expression.

2008 Exp.fct.paraCnt

Status Wrong number of function parameters in the expression.

Measure → Check the expressions. Correct the wrong expression.

2009 Exp. name wrong

Status A not defined variable name is used in an expression.

Measure → Check the variable names. Correct the spelling if necessary or define a new variable.

2010 Fct. para value

Status The error is caused by the Easy-Plug function chr(). The argument, which was assigned to the function, exceeds the admissible value range 0...255.

Measure → Change the argument (details see Easy-Plug manual)

2011 OLV variable

Status Wrong naming of the variable in Easy-Plug command #VDO (details see Easy-Plug manual)

Measure → Check the Easy-Plug command #VDO in the current printjob.

2111 Invalid Date

Status Invalid date specification in a string.
Example: Function call *DayOfYear*("31", "6", "2005") would produce this error message (because the date did not exist).

Measure → Correct the date specification.
○ See Easy-Plug Manual, topic section "Description of commands", chapter "Easy-Plug variables".

2500 Multiple texts

Status This status number may be combined with variety of texts, which all are generated by the Basic interpreter. The Basic interpreter is a function which is not released nor supported.

Measure → Switch off the Basic interpreter (SYSTEM PARAMETERS > Print Interpret.).

3000/3003/3006/3012/3015 Com x Overrun

Status Receive error at the RS232 interface COMx (x = [1...5]).

Measure → Acknowledge by pressing the Online button.

3001/3004/3007/3013/3016 Com x Parity

Status Receive error at the RS232 interface COMx (x = [1...5]).

Measure → Acknowledge by pressing the Online button.
→ Check parameter setting at printer (INTERF. PARAM. > COM1 PORT > Parity) and PC.
○ Notes about setting the printer parameters are given in the chapter "Info Print-outs and Parameters" in the User Manual.

3002/3005/3008/3015/3017 Com x Frame

Status Receive error at the RS232 interface COMx (x = [1...5]).

Measure → Acknowledge by pressing the Online button.
→ Check parameter setting at printer (INTERF. PARAM. > COM1 PORT > Baud rate and INTERF. PARAM. > COM1 PORT > stop bits) and PC.
○ Notes about setting the printer parameters are given in the chapter "Info Print-outs and Parameters" in the User Manual.

3010 Spooler Overflow

- Status** Fault which is caused by a faulty handshake at an interface. The consequence is an overflowing data buffer at the printer, because the host doesn't stop to send data to the printer.
- Measure**
- Acknowledge by pressing the Online button.
 - Check the connections of the data line, especially the signal wires belonging to the handshake.
 - Check the interface settings, especially the handshake settings.

3011 Send buffer full

- Status** The send buffer is full. This error may happen, if the printer status was requested several times (!Xn), but the status reply was not read out.
- Measure**
- Make sure that the status reply is read out.

4100-4106 Message, which can only occur with OLV-Option

4100 No OLV data

Status	The OLV found out, that the bar code type and/or the bar code data, which was just printed and read, doesn't match the bar code specified in the print job. The error may have one of the following causes: • OLV is not connected/switched on • The bar code has not been printed • The bar code has been printed poorly, so that the OLV can not detect it.
Measure	→ Check, if the OLV is connected correctly → Check the printout quality. If the printout is poor, change the print parameters and/or use a different material/ribbon-combination. → Make a dot check. May be, that a dot is defective, which was ought to print an important line of the bar code. → If the bar code has not been printed at all: check the print job.

4101 OLV limit exceed

Status	The read bar code exceeds a user-specified limit. The limits, e.g. contrast or readability, can be set via the parameter menu or via Easy Plug command.
Measure	→ Check the printout quality. → Change the limit. → Eventually modify the print parameters or the material/ribbon combination.

4103 OLV barcode type

Status	The OLV found out, that the bar code type, which was just printed and read, doesn't match the bar code specified in the print job.
Measure	→ Check the printout.

4104 OLV Timeout

Status	General software error
Measure	○ Please read the notes in section General software errors  .

4105 No OLV response

Status This error may occur shortly after switching on the printer with the OLV device already switched on. It indicates, that the OLV version number was not successfully read.

Possible causes are:

- Wrong connection cable between OLV and printer
- Faulty interface parameter setting for Com2
- Power supply of the OLV interrupted or not available
- Defective I/O board (Com2)

Measure → Check the possible causes of failure and exchange defective parts.

4106 OLV Software

Status General software error

Measure ○ Please read the notes in section [General software errors](#) .

5000 Bus device

Status One of the devices connected to the I²C bus (e.g. output stage boards) does not respond. This message appears mostly first in a sequence of two or three status messages, which help to isolate the error source.

Measure → Acknowledge by pressing the Online button.
→ Switch printer off and back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

Example The parameter `SYSTEM PARAMETERS > Periph. device` is set to "Cutter" without an output stage board for a cutter being installed. The following status messages appear one after another:

1.

Status	5000
Bus device	

 Generally tells, that something went wrong with I²C bus communication.

→ Press Online button.

2.

Status	5005
Knife-fault	

 Either no output stage board is prepared to drive a cutter, or the I²C bus data cable is not connected to the output stage board (this message appears only in one of those two cases, alternative status messages see Tab. 2)

→ Press Online button.

3.

Status	5020
I2C Timeout	4

 Time limit exceeded without getting an answer from device no. 4 (4 = Cutter, see Tab. 4) (alternative status messages see Tab. 3)

→ Press Online button

One of the following status messages may follow second:

Status #	Text	Missing output stage for the following
----------	------	--

		device:
5005	Knife-fault	Cutter motor
5006	Head-fault	Print head liftmotor
5008	Ribbon end	Ribbon motor

Tab. 2 Those status messages indicate, that the device is not connected to the I²C bus.

Third may follow one of the status messages listed below:

Status #	Text
5020	I2C Timeout xx
5021	I2C Conf. xx
5022	I2C Busy xx
5023	I2C LAB xx
5024	I2C BER xx
5025	I2C Polling xx

Tab. 3 Status messages, which help to further locate the I²C bus error. xx = Device ID of the concerned device (see 0)

#	Device	64-xx	DPM / PEM	ALX 92x	AP 5.4	AP 7.t
0	CPU	X	X	X	X	X
1	Feed motor	X	X	X		X
2	Foil motor	X	X	X		
3	Printhead motor	X	X	X		X
4	Peripheral motor	X				X
5	Dispenser motor	X				
5	Rewinder motor			X		
8	Rewinder (internal)			X	X	
12	(Reserved)					
13	USI board	X	X	X		
15	I/O board	X	X	X	X	X
16	EEPROM	X	X	X	X	X
17	Realtime-clock	X	X	X	X	X
18	Power supply	X ¹⁾	X	X		

Tab. 4 Assignment of device IDs as used in status messages related to the I²C bus.

1) Only with the power supply types HME and ME 500.

5001 No gap found

- Status** No gap found or several blank labels fed.
- Measure**
- Acknowledge by pressing the Online button.
 - Check the print mask for gap definition (material length).
 - Check whether the correct material has been inserted.
 - Check that the photoelectric switch is clean.
 - Check material feed and position of photoelectric switch.
 - Check the values of the photoelectric switch in parameter **SERVICE FUNCTION > Sensor test**. If necessary, readjust the sensor or replace it.
 - After confirmation using the Online button, the material is fed forward automatically and the next gap is sought.

5002 Material end

- Status** Material end. Material no longer in the gap LS.
- Measure**
1. Press Online button in order to acknowledge the status report.
Display: *OFFLINE x JOBS*
 2. Insert material and check the position of the photoelectric switch, correct if necessary.
 3. Press Online button: processing of the job continues, gap is reinitialised.

5003 Cover open

- Status** 64-xx / DPM / PEM / ALX 92x: *Cover open*
- Housing cover is open. Opening the cover causes all other eventually waiting status messages (e.g. ribbon end) to be deleted and the "Cover open" message immediately to be displayed. Closing the cover automatically acknowledges the message.
- AP 4.4 / 5.4: *Printhead pressure lever open*
- The printhead pressure lever was opened, during:
- the feeding of material or
 - printing.
- The error message is automatically acknowledged with the closing of the printhead pressure lever.
- Measure** → Close the cover or printhead lever respectively.

5004 Rewinder mat. tear

Status Label material at the backing paper rewinder is torn off.

The *AP 5.4 Dispenser* shows this message also if the backing paper sleeve was too large during material initialization; the backing paper web could not be tightened.

Measure → Acknowledge by pressing the Online button.
→ Secure label material to the rewinder.

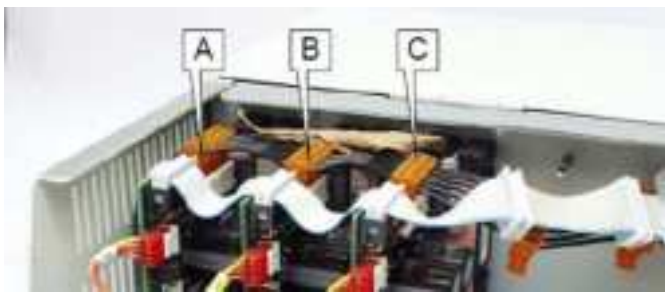
5005 Knife-fault

Status Faults at the cutter.

Measure → Acknowledge by pressing the Online button.

5006 Head-fault

Status The error can have the following causes. The causes are listed in order of probability of occurrence.

Cause	Measure
<i>Bad contact</i>	 One of the wires of the power or data cable to the output stages has a bad contact. → Check that the plugs on the output stages are firmly seated. Press each stranded wire on the connectors firmly into the crimp contact. → Do the same at the end connector on the CPU board..
<i>Motor output stage defective</i>	The motor output stage may be the cause if the error occurs directly after switching on, and not during operation. Test: Swap addresses of foil motor output stage and head motor output stage (change jumper setting, see service manual). → Replace the defective output stage board.
<i>Power supply defective</i>	→ Check all voltages of the power supply unit. Most important is the 48 V for the supply of the motor output stages (wiring diagram power supply unit see service manual).

Head lift mechanics

Sensor:

→ Select parameter **SERVICE FUNCTION** > **Sensor test** and check function of the head lift sensor (A).

Timing disc:

→ Check whether the timing disc (B) runs through the centre of the head lift sensor. If it rubs on one side, this can damage the sensor and trigger the error.

→ Check if the timing disc is loose or deformed. If the screw on the timing disc is too tight, this can deform the timing disc. If the timing disc is loose, the gap in the timing disc may not reach the sensor, which may cause the error.

Head gap:

→ Check whether the printhead gap is < 0.5 mm. This error is usually accompanied by a poor print image. (for details refer to the service manual, chap. „Service Mechanics“ > „Printhead adjustment“ > „Adjusting the printhead gap“)

Firmware

If the error occurs sporadically, a firmware update to a version > V6.T20123 is recommended. This firmware can store more details in the diagnostic dump. The firmware is available from Technical Support.

→ As soon as the error occurs, send the dump file to Technical Support (for details refer to the service manual, chap. „Fault location“ > „Reading out diagnosis data“).

Printhead axle

The plastic bushing that is firmly connected to the printhead axle is broken (usually occurs in connection with poor print quality). This leads to increased friction, which means that the printhead can no longer be lifted by the motor, resulting in the error.

→ Replace the printhead axle.

5008 Ribbon end**Status** Ribbon end**Measure**

- When using thermal printing:
 1. Check whether the parameter `SYSTEM PARAMETER > Ribbonautoecon.` is set to "deactivated".
 2. Acknowledge by pressing the Online button.
 3. Switch off the ribbon end detection, parameter: `SYSTEM PARAMETER > Ribbonautoecon.`
 4. Press the Online button: processing of the job continues, gap LS is reinitialised.
- When using heat transfer printing:

Measure 1

1. Tighten ribbon or set the spring plate on the ribbon unwind mandrel so that the ribbon core turns the mandrel with it and the ribbon core can still be removed.
2. Press the Feed button in order to acknowledge the status report.
Display: OFFLINE x JOBS
3. Press the Online button: processing of the job continues, gap LS is reinitialised.

Measure 2

1. Press the Cut button to deactivate the acoustic signal.
2. Press the Feed button in order to acknowledge the status report.
Display: OFFLINE x JOBS
3. Insert a new ribbon.
4. Press the Online button: processing of the job continues, gap LS is reinitialised.

5009 USI start error

Status This status message can only be triggered with activated parameter `DP INTERFACE > Start error stop.` It occurs, if another start signal is given while printing a label.

Measure → Acknowledge by pressing the Online button. Press the Feed button afterwards to proceed with the print job.

5012 Delete H8 loader

Status Error while loading the H8 firmware: the old firmware on the machine could not be deleted.

Measure

- Acknowledge by pressing the Online button.
- Retry loading the firmware.
- If the error occurs repeatedly, the bootloader must be loaded newly.

5013 Prog H8 loader

- Status** Error while loading the H8 firmware: the new firmware could not be written.
- Measure**
- Acknowledge by pressing the Online button.
 - Retry loading the firmware.
 - If the error occurs repeatedly, the bootloader must be loaded newly.

5015 Scanner

- Status** Faults at the scanner.
The scanner is tested during printer initialization by switching it on for a moment. A properly working scanner will afterwards send a reply signal to the printer. A missing reply signal provokes the status message. The missing of the reply signal can have several reasons.
- Measure**
- Acknowledge by pressing the Online button.
 - Red scanner LED lights up? – If not, there is a lack of power supply. Check, if the scanner connection cable is plugged in correctly and if the connection cable is damaged.
 - Yellow scanner LED lights up shortly after switching the printer on. – If not, the scanner test was faulty.

5016 ALX Rewinder

- Status** (Only ALX 92x)
The output stage board belonging to the Rewinder motor is not connected or damaged.
- Measure**
- Check, if the board is connected properly.
 - Exchange the board to verify if it is damaged.
- After replacing the output stage board and switching on the machine, the error message is still active. In order to be able to set the light barrier with the new circuit board, the error message must first be removed. This is how it works:
- Acknowledge the error message by pressing the enter button.
After a short time the error message appears again.
 - Acknowledge the error message again two times.
After the third time, the error message no longer appears.
 - Set the rewinder light barrier (see service manual > „Service Electronics Gen. 3“ > „Settings“ > „Light sensor at the rewinder dancer“).

5017 Power Supply

- Status** Communication fault of the power supply during the running of the service function "Head dot test".
- The power supply didn't succeed in switching to the dot check mode (that is, reducing the head voltage to 10 V). Also in this case, temporary disturbances on the measurement line of the H8 processor, caused by the power supply, are a possible reason. Even if the switchover is defective

(the status message is displayed continuously), can the printer be used in normal operation mode.

- Measure**
- Acknowledge by pressing the Online button.
 - Try again. If the error message continues to appear, exchange the power supply.
 - For detailed information refer to the appropriate service manual, topic section "General Service", chapter "Connections and electrics", "Powerpack".

5020 I2C Timeout xx

Status Timeout error during communication via the I²C bus with the device xx (see Tab. 4 on page 37).

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5021 I2C Conf. xx

Status Confirmation error during communication via the I²C bus with the device xx (see Tab. 4 on page 37).

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5022 I2C Busy xx

Status Error during communication via the I²C bus with the device xx (see Tab. 4 on page 37). Device always reports that it is busy.

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5023 I2C LAB xx

Status Error during communication via the I²C bus with the device xx (see Tab. 4 on page 37).

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5024 I2C BER xx

Status Error during communication via the I²C bus with the device xx (see Tab. 4 on page 37).

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5025 I2C Polling xx

Status Polling error during communication via the I²C bus with the device xx (see Tab. 4 on page 37).

- Measure** → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5026 Motorprotect CPU

Status (AP x.x only) The motor driver board (output stage board) is overheated or defective.

Measure → Switch printer off and then back on again after 30 sec.
 If the error message continues to appear:
 → Replace the motordriver board.

5028 PS overheat

(AP x.x only)

Status The temperature inside of the power supply exceeded the admissible range.

Measure → Let the power supply cool down for some minutes.

5029 I2C checksum xx

Status During I²C communication with device xx occurred a checksum error.
 xx = I²C device number (see Tab. 4 on page 37).

Measure → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

5051-5058 Messages which can only occur with a TT4 printer**5051 Barcode Infeed 1**

Status (TT4 only) Error while reading the bar code on the material in infeed 1

Measure → Check, whether material in infeed 1 is inserted correctly. The bar code must be in front (in advance direction) on the material bottom. Insert material correctly, if necessary.
 → Check, whether the bar code print is erroneous on material in infeed 1. Exchange material, if necessary.

5052 Barcode Infeed 2

Status (TT4 only) Error while reading the bar code on the material in infeed 2

Measure → Check, whether material in infeed 2 is inserted correctly. The bar code must be in front (in advance direction) on the material bottom. Insert material correctly, if necessary.
 → Check, whether the bar code print is erroneous on material in infeed 2. Exchange material, if necessary.

5053 Barcode Infeed 3

Status (TT4 only) Error while reading the bar code on the material in infeed 3

Measure → Check, whether material in infeed 3 is inserted correctly. The bar code must be in front (in advance direction) on the material bottom. Insert material correctly, if necessary.
 → Check, whether the bar code print is erroneous on material in infeed 3. Exchange material, if necessary.

5054 Barcode Infeed 4

Status (TT4 only) Error while reading the bar code on the material in infeed 4

Measure → Check, whether material in infeed 4 is inserted correctly. The bar code must be in front (in advance direction) on the material bottom. Insert material correctly, if necessary.

→ Check, whether the bar code print is erroneous on material in infeed 4. Exchange material, if necessary.

5055 Infeed 1 empty

Status (TT4 only) While initializing, TT4 reports no material in infeed 1.

||||➡ Precondition for this status message is, that parameter
SYSTEM PARAMETERS > w/wo magazine is set to „with“.

Measure → Check, if the material in infeed 1 is loaded correctly, respectively if it's loaded at all. Acknowledge by pressing the Online button.

5056 Infeed 2 empty

Status (TT4 only) While initializing, TT4 reports no material in infeed 1.

||||➡ Precondition for this status message is, that parameter
SYSTEM PARAMETERS > w/wo magazine is set to „with“.

Measure → Check, if the material in infeed 1 is loaded correctly, respectively if it's loaded at all. Acknowledge by pressing the Online button.

5057 Infeed 3 empty

Status (TT4 only) While initializing, TT4 reports no material in infeed 1.

||||➡ Precondition for this status message is, that parameter
SYSTEM PARAMETERS > w/wo magazine is set to „with“.

Measure → Check, if the material in infeed 1 is loaded correctly, respectively if it's loaded at all. Acknowledge by pressing the Online button.

5058 Infeed 4 empty

Status (TT4 only) While initializing, TT4 reports no material in infeed 1.

||||➡ Precondition for this status message is, that parameter
SYSTEM PARAMETERS > w/wo magazine is set to „with“.

Measure → Check, if the material in infeed 1 is loaded correctly, respectively if it's loaded at all. Acknowledge by pressing the Online button.

5059 Stacker full

Status (AP 7.t only) This message can only appear if a TCS is applied as peripheral device. It indicates, that the stacker is full or the protection cover is opened.

Measure → Empty stacker

→ Close cover

→ If the message appears in spite of a closed cover and an emptied stacker, check the function of lid switch and microswitch.

5060 Stacker full

Status This message can only appear if a TCS is applied as peripheral device. It indicates, that the stacker is full or the protection cover is opened.

Measure → Empty stacker
 → Close cover
 → If the message appears in spite of a closed cover and an emptied stacker, check the function of lid switch and microswitch.

5061 Dispenser motor

Status The output stage board for the dispenser motor is not present or defective.

Measure → Press the Online button to acknowledge.
 → Check the output stage board for the dispenser motor and eventually exchange it.

5062 Disp. lift motor

Status The output stage board for the dispenser lift motor is not present or defective.

Measure → Press the Online button to acknowledge.
 → Check the output stage board for the dispenser lift motor and eventually exchange it.

5063 Press roll

64-xx dispenser / DPM / PEM / ALX 92x

Status The press roll lever is not closed. Opening the lever causes the immediate deletion of all potentially queued status messages (e. g. ribbon end) and display of the "Press roll" message. Closing the lever automatically acknowledges the status message..

Measure → Close the press roll lever.

5063 Lever open

AP 5.4/5.6

Status The printhead lever is not closed. Opening the lever causes the immediate deletion of all potentially queued status messages (e. g. ribbon end) and display of the "Lever open" message. Closing the lever automatically acknowledges the status message.

Measure → Close the printhead lever.

5064 Backing paper

Status Happens with dispenser version printers: Shows up, when the diameter of the rewinded backing paper roll has become too large.

Measure → Clear the rewinding mandrel.
 → Press the Online button to acknowledge.

5071 Material end unw

Status Occurs during operation with activated *internal* OD control. The message appears, if the material roll diameter has reached the critical value (setable by MACHINE SETUP >Materialend err).

Measure → Replenish the material roll.

5072 Material end unw

Status Occurs during operation with activated *internal* OD control. The message appears, if no rotation of the material roll has been registered during at least 600 mm of material feeding.

Measure → Check the material feeding; if necessary, replenish the material roll.

5100 No H8 response

Status Communication fault with H8 processor (occurs only at devices with Gen. 2 electronics).

Measure → Acknowledge by pressing the Online button.
→ Switch device off and on again.

If the message continues to appear:

→ Contact service technician.

Instructions for service technicians:

The error can occur in connection with the exchange of the CPU board of an ALX 92x machine.

→ Acknowledge error, set all sensors, restart.

→ If the error message still appears: Reload firmware and/or carry out a forced bootloader start with "Clear params".

→ If the error continues to appear: send CPU board with a fault description to the manufacturer.

5100 Printengine lock

Status Printengine error (occurs only at devices with Gen. 3 electronics).

Measure → Acknowledge by pressing the Online button.

→ Switch device off and on again.

If the message continues to appear:

→ Contact service technician.

5101 Headadjust error

Status Error during the running of the "Head Alignment" service function.

Measure → Acknowledge by pressing the Online button.

→ Contact service technician.

5102 Dot Defective

Status Defective dot detected during the running of the "Head dot test" service function.

Measure → Acknowledge by pressing the Online button.

5110 Foil low

- Status** The diameter of the foil roll fell below the set warning diameter (see *SYSTEM PARAMETER > Foil warning*).
- The message is caused by a foil warning in addition with the following setting: *SYSTEM PARAMETER > Foil warn stop = „Enabled“*.
- Measure** → Acknowledge by pressing the Online button, then press the Feed button to continue printing.

5120 Home position

- Status** The applied applicator cannot reach the home position; this can be caused by an impact from outside (e.g. extending it manually), which has moved the applicator. In those cases, the stepper motor loses steps and doesn't regain its home position.
- Preconditions for this error to occur:
- The parameter *DP INTERFACE > Interface type* is set to *USI Applicator*.
 - Internal inputs are enabled.
- Measure** → Take care not to move the applicator by force.
→ Acknowledge by pressing the Online button.

5121 Touch down

- Status** The applied applicator doesn't reach the Touch Down Position, what means that it extends completely without reaching any product or other resistance. .
- Preconditions for this error to occur:
- The parameter *DP INTERFACE > Interface type* is set to *USI Applicator*.
 - Internal inputs are enabled.
- Measure** → Correct the applicator position. The applicator must reach the product before it is completely extended.
→ Acknowledge by pressing the Online button.

5122 PLC not ready

- Situation:
- The parameter *DP INTERFACE > Interface type* is set to *USI Applicator*.
 - Internal inputs are enabled.
- Status** The connected PLC is not on line.
- Measure** → Check if the PLC is powered on.
→ Check if the PLC shows any error status.
→ Acknowledge by pressing the Online button.

5123 USI Material low

- The error can only occur with an ALX 92x with optional OD control sensor.
- Status** The outer diameter of the material roll has reached the set minimum value.
- Measure** → Insert a new material roll.
→ Acknowledge by pressing the Online button.

5125 Vn for USI req.**Status**

This message shows up, if the firmware of the USI doesn't match the printer firmware.

n = Required USI firmware version

- USI firmware version is higher than the required version:

Message is automatically quit after approx. 2 s. This combination should work without problems.

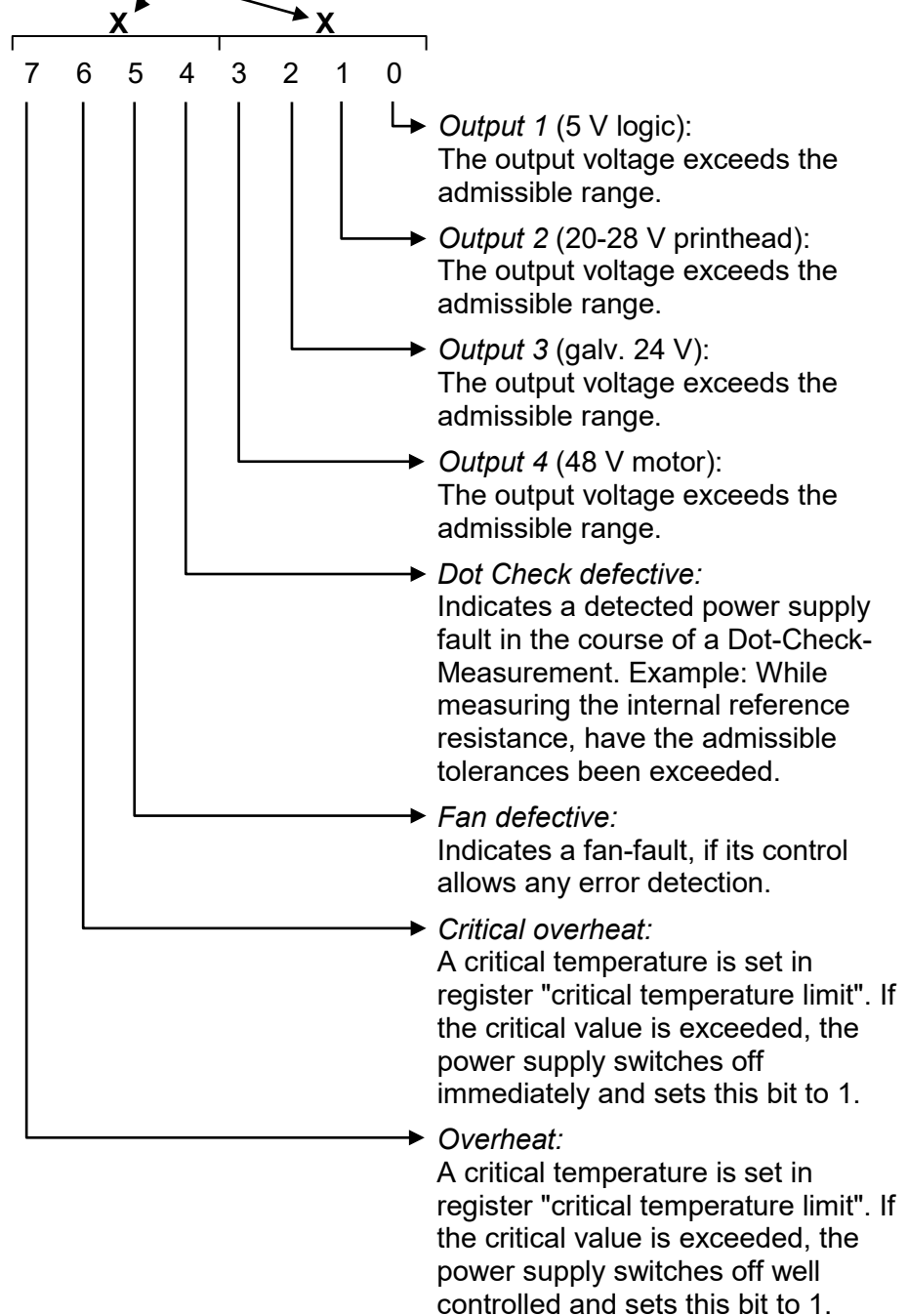
Measure

- USI firmware version is older than the required version:
→ Update the USI firmware.
○ See service manual, topic section [Firmware Gen. 3](#) 

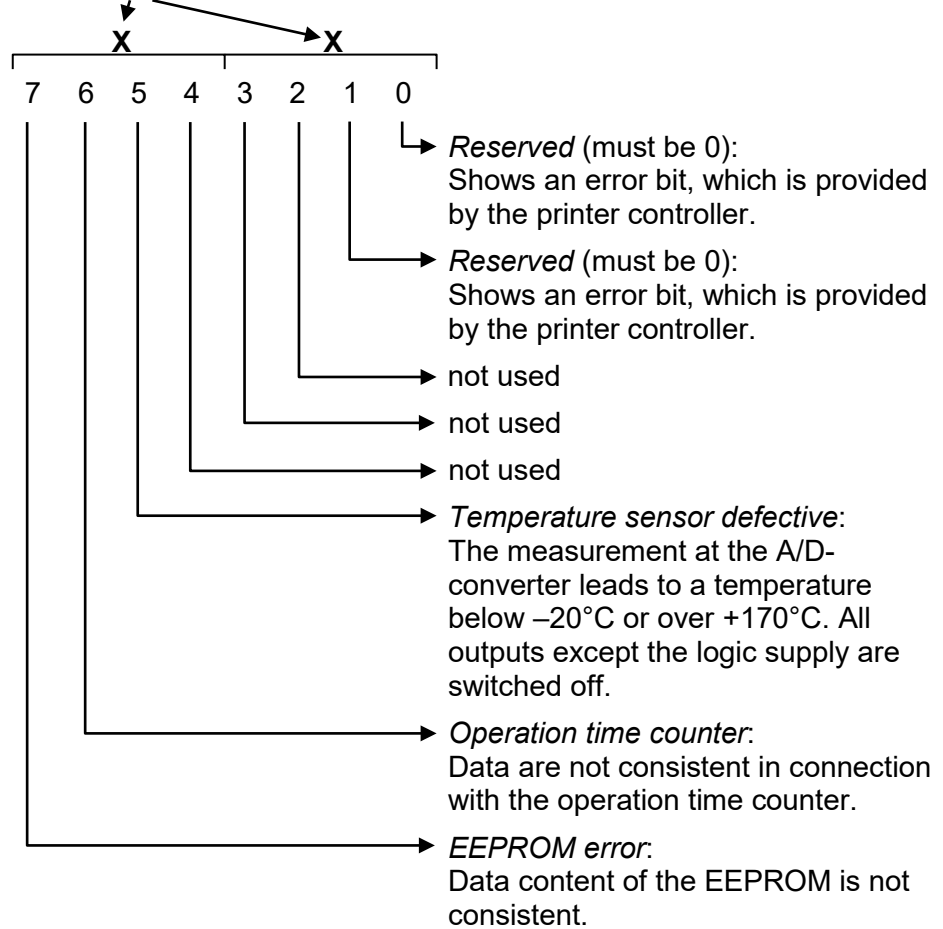
5130 PSU xxxxxxxx**Status**

Failure of the power supply. "xxxxxxx" = four byte long error code in hexadecimal form. Every bit stands for a certain status of the power supply. The bit is set to "1", if the status occurred.

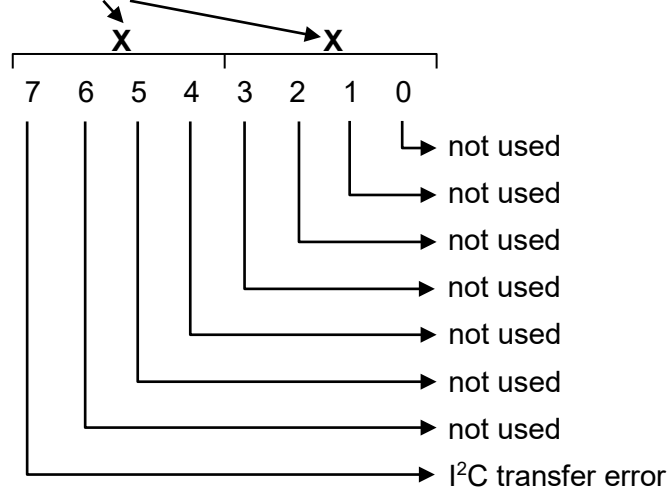
- Byte 1: xxxxxxXX



- Byte 2: xxxx**XX**xx



- Byte 3: xx**XX**xxxx



- Byte 4: **XX**xxxxxx (is not being used yet)



Example: 0000F020

Bit no.	7	6	5	4	3	2	1	0	Meaning
Byte 1 (here: 20)	0	0	1	0	0	0	0	0	Fan defective
Byte 2 (here: F0)	1	1	1	1	0	0	0	0	Temperature sensor defective, operation time counter is not consistent, EEPROM error
Byte 3	0	0	0	0	0	0	0	0	
Byte 4	0	0	0	0	0	0	0	0	

5131 PSU communicat.

Power supply communication
(64-xx / DPM / PEM / ALX 92x / PM 3000 only)

Status A fault occurred during communication with the power supply via I²C bus.

Measure → Switch the printer off and after 30 seconds on again. If the message continues to appear, contact the manufacturer.

5140 Rewinder control

(ALX 92x with M5A motor output stages only)

 During problem-free operation, the rewind unit dancer arm only moves a minimal distance around the "control position". This is the position the dancer arm takes up after initialisation of the machine.

Status *Cause:* Any force applied that moves the dancer arm from its control position.

Example: The feed motor is blocked; the backing paper is not conveyed quickly enough; as a result the dancer arm is pulled upwards.

Example: The backing paper is torn; the dancer arm springs downwards.

Measure → Press the Enter-key.
This reinitialises the dancer arm control; the dancer arm moves back into the control position.

5144 Rewinder Init

(ALX 92x with M5A motor output stages only)

Status The message has a couple of possible causes:

- No label material inserted.
- Rewinder sensors are not or not properly connected.
- Sensor board position is faulty.
- Sensor defective.

→ Insert material.

→ Check the connection. Connect the sensors properly.

→ Correct the position of the sensor board.

→ Exchange the sensor board.

5145 Rewinder full

(ALX 92x with M5A motor output stages only)

Status The maximum permitted diameter (205mm) for the rewinder roll has been reached.



This error can only occur if the end of a new label roll was glued on to backing paper that had already been wound onto the rewinder.

Measure → Remove the rewound backing paper.
→ Press the Enter-key to confirm the error message.

5150 No USI interface

Status (DPM / PEM / ALX 92x only)
This error appears, if no USI is detected while the printer is powering up.

Measure → Check, if the USI is defective or not built in.

5151 Applic. interf.

Applicator interface

Status (DPM / PEM / ALX 92x only)
Neither Applicator Interface (AI), nor USI are connected to the device.

Measure → Connect a USI or AI to the device.

5152 Winding direct.

(ALX 92x with M5A motor output stages only)

Status The backing paper end is not correctly attached to the rewinder mandrel.

Wrong machine type selected (SPECIAL FUNCTION > Printer type).

- Attach the backing paper web to the rewinding mandrel as described in the user manual.
- Setting „RH“ at a LH machine or vice versa.

5200 Home position

Status The applicator did not reach its home position within the given time frame.

Possible causes:

- The applicator is jammed
- Applicators driven by compressed air: The air supply may be interrupted or switched off
- Cable not connected properly
- Cable for interlock circuit (2-pole plug) not connected to connector box

Measure → Check cable and compressed air connections; reconnect them properly, if necessary.
→ May the applicator move unhindered? – remove any obstacles.
→ Connect interlock circuit.

5201 Touch down

Status The applicator did not reach its touch down position within the given time frame.

Measure → Check cable and compressed air connections; reconnect them properly, if necessary.
→ May the applicator move unhindered? – remove any obstacles.

5203 Touch down sens.

Status The touchdown sensor(s) was/were already triggered before the application.

Measure → Check cable and compressed air connections; reconnect them properly, if necessary.

5204 Appl. Startererror

Status The device received another start signal during printing/applying a label.

Precondition: Parameter **APPLICATOR PARA > Start error stop** or **DP INTERFACE > Start error stop** is set to *On*.

Measure → Check the labelling procedure; increase the product distance.
→ Set parameter *Start error stop* to *Off*.

5205 Applicator gen.

Status General software error

Measure ○ Please read the notes in section [General software errors](#) .

5206 Applicator resp.

Status Communication with the AI exceeded a given time frame.

Measure → Switch the printer off and on again after half a minute. If the error still occurs after several tries, please contact our technical support.

5207 Appl. driver 1

Status Shortcut or overheat at power output 1 at the applicator connector (CN603) on the AI board. The power output 1 comprises the following output signals:

- Cylinder
- Vacuum
- Airstream Support
- Blow On

Measure → Check the connections.

5208 Appl. driver 2

Status Shortcut or overheat at power output 2 at the applicator connector (CN603) on the AI board. The power output 2 comprises the following output signals:

- BTS
- Reserved 1
- Reserved 2
- Reserved 3

Measure → Check the connections.

5209 Appl. driver 3

Status Shortcut or overheat at power output 3 at the machine status connector (CN602) on the AI board. The power output 3 comprises the following output signals:

- Error
- Warning
- Ready

Measure → Check the connections.

5210 Appl. driver 4

Status Shortcut or overheat at power output 4 at the machine status connector (CN602) on the AI board. The power output 4 comprises the following output signals:

- Cycle
- OD-Foil
- OD-Sensor
- Offline

Measure → Check the connections.

5212 Vx.x for AI rec

Status The required AI firmware (version x.x) is not installed.

Measure If the installed AI firmware is older than the required version:

→ Acknowledge message. Load AI firmware version x.x.

If the installed AI firmware is newer than the required version:
The message is acknowledged automatically.

5300 BLDC EEPROM err.

Status General EEPROM read/write error on the BLDC driver board (AP 5.4 with internal rewinder).

Measure → Switch printer off and than on again after 30 seconds. If the status message continues to appear, change the BLDC board.

5301 BLDC rewinder Ø

- Status** The stored rewinder diameter exceeds the admissible range (AP 5.4 with internal rewinder).
- Measure**
- Acknowledge the status message by pressing the online button.
 - Switch to offline mode and feed the label web for approx. 200 mm. This re-initializes the rewinder diameter.
 - If the printer is switched off and on again *without prior initialization*, the status message will be displayed again.

5500 Unknown

- Status** General software error
- Measure** ○ Please read the notes in section [General software errors](#) .

5501 General

- Status** General software error
- Measure** ○ Please read the notes in section [General software errors](#) .

5502-5551 Messages, which can only occur with RFID option**5502 RFID internal**

- Status** General software error
- Measure** ○ Please read the notes in section [General software errors](#) .

5504 No RFID job

- Status** A print job, which is not declared as RFID printjob, contains RFID-specific Easy-Plug commands (e. g. #RT, #RFW, ...).
- RFID printjobs are declared in the #IM command by defining the distance between label edge and optimum of transponder antenna (parameter "d").
- Measure** → Modify the print job.

5510 RFID COM timeout

- Status** Timeout error. There was no communication between reader module and COM2 in the time slot where it should be performed.
- Measure**
- Repeat the operation, in the course of which the error occurred.
 - Check, if the reader module board is connected correctly.
 - Check if the reader module board is defective.

5512 COM open failed

- Status** There was a communication problem at COM2 while powering up the printer. The interface cannot be opened by the printer firmware – or it is used by another firmware part.
- Measure**
- Check, if COM2 is available (that is, if it is built-in).
 - Check the function of the COM2 interface.

5513 Get baud failed

- Status** There was a communication problem between COM2 and reader module while powering up the printer. The baud rate of the reader module is not detected correctly by the printer firmware. Baud rate and/or parity and/or another setting of transmission parameters at the reader module is faulty.
- Measure**
- Check, if the reader module board is connected correctly.
 - Check if the reader module board is defective.
 - Check the setting of the transmission parameters at the reader module.

5521 No transponder

- Status** Either there is no transponder (=tag) or more than one transponder within reach of the antenna.
- Measure**
- Check the label material feeding; remove paper jam, if necessary.

5522 Tag write err

- Status** A transponder (=tag) cannot be written on for one of the following reasons:
- Faulty address: e.g. an attempt to write into a protected area.
 - The tag is out of reach of the antenna, after it has already been recognized.
 - Noise signals avoid the transmission.
- Measure**
- Check the system for the mentioned error causes and correct them.

5523 Tag address err

- Status** Faulty address: The address data targets beyond the logical or physical address range of the transponder.
- Measure**
- Change the address.

5524 CMD not applicable

- Status** A command cannot be interpreted by the transponder.
- Measure**
- Change or remove the command.

5525 Tag read err

- Status** The plausibility test of the read data failed. Possible reasons are:
- The tag is out of reach of the antenna, after it has already been recognized.
 - Noise signals avoid the transmission.
- Measure**
- Check the system for the mentioned error causes and correct them.

5526 Tag select first

- Status** A read or write command was given without selecting the transponder at first.
- Measure**
- Add a select command before using the read/write command.

5527 Tag RF comm err

Status Transponder and reader are unable to communicate. Possible reasons are:

- More than one transponder is within reach of the antenna.
- No transponder is within reach of the antenna.

Measure → Check the label material feeding; eventually remove paper jam.

5528 EEPROM failure

Status

- The reader cannot write on the transponder EEPROM.
- A faulty checksum was detected before writing on the EEPROM.

Measure → Repeat the writing attempt.

→ Try another transponder

5529 Parameter range

Status Faulty address. Transponders of the same type may have memory ranges of different sizes; according to this, the admissible addresses differ too.

The fault occurs, if a block address targets beyond the address range of the transponder.

Measure → Change the address.

→ Use a transponder with a wider address range.

5530 Unknown CMD

Status The reader doesn't support the used command.

Measure → Change or replace the command.

5531 Protocol length

Status General software error

Measure ○ Please read the notes in section [General software errors](#) .

5532 CMD not avail.

Status The sent command cannot be executed at the moment.

Measure → Check, if all system components match the specifications.

5540 ISO error #1

Status Faulty system configuration. Possible reasons may be:

- Faulty firmware version of the reader
- The applied transponders doesn't match the reader.

Measure → Check if the reader has the correct firmware version installed.

→ Compare the applied transponder type with the specification of the reader.
If necessary, use another transponder type.

5541 ISO error #2

○ See [ISO error #1](#) .

5542 ISO error #3

○ See [ISO error #1](#).

5543 ISO error #15

○ See [ISO error #1](#).

5544 ISO error #16

○ See [ISO error #1](#).

5545 ISO error #17

○ See [ISO error #1](#).

5546 ISO error #18

○ See [ISO error #1](#).

5547 ISO error #19

○ See [ISO error #1](#).

5548 ISO error #20

○ See [ISO error #1](#).

5549 ISO error ???

○ See [ISO error #1](#).

5550 Wrong tag type

Status A transponder was detected, which is not known by the reader – it cannot be used.

Measure → Use another transponder type, which is known to the reader.

5551 Max Tags failed

Status The maximum permissible number of invalid labels was reached. This value is to be set via parameter [RFID PARAMETERS > Max Tags To Stop](#).

||||▶ Invalid labels are being printed on with diagonal stripes.

Measure → Find out, why the labels are invalid; put things right.
 → Increase the maximum value.

5560 TCS full / cover

Status This message can only appear, if a TCS is applied as peripheral device.
 The message shows up, if:

- the stacker is full
- the stacker cover is open

Measure → Empty the stacker, or
 → close the cover

5590 Odd hex string

Status A character string was sent to the transponder (Easy Plug command #RFS) and was ought to be interpreted hexadecimal (use #RFS with parameter "B"). For this, the character string must consist of an equal number of characters. This was not the case, what triggered this error message.

Measure → Send an equal number of characters.

5600 Job without #Q

Status The print job misses the declaration of the print amount (Easy-Plug command #Q).

Measure → Insert a #Q command with the print amount.

5601 Job memory full

Status The job memory for Easy-Plug printjobs is full.

Measure → Reduce the reserved memory for one or more of the following memory areas:

- Free store size (SYSTEM PARAMETER > Free store size)
- RAM disk size (SYSTEM PARAMETER > Ram disk size)
- Font download size (SYSTEM PARAMETER > Font downl. area)

→ If there are already some printjobs in the printer queue: wait until those are processed.

6000 Param. incorrect

Status Novram check sum error.

■■■■➔ Check the setting of the printhead resistance (parameter SYSTEM PARAMETER > Head resistance) , before you press the Online button – possibly the value is faulty.

Measure → Confirm error by pressing the Online button. All parameters are set back to the factory settings.

6001 Nov. prog. err.

Status Error during allocation of main memory.

Measure → Switch printer off and then back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

6002 New prog. vers.

Status Occurs after firmware update. The printer hereby reports that new firmware is available.

Measure → Confirm by pressing the Online button. All parameters are set back to the factory settings.

6003 Memory error

Status Error during partitioning of the main memory.

Measure → Switch printer off and back on again after 30 sec. If the error message continues to appear, please contact the manufacturer.

6004 Load H8 program

- Status** Appears, when
a) no valid H8 firmware is loaded
b) after a forced start of the boot loader
- Measure** Case a)
1. Press the Online button to confirm.
2. Load H8 firmware.
○ For details, refer to the service manual, topic section "Firmware", section "Loading the H8 system".
- Case b)
→ Press the Online button to confirm.
○ For details, refer to the service manual, topic section "Firmware", section "Loading the Firmware (using boot loader)".

6005 Fixfont data

- Status** Defective fixfonts.
- Measure** → Load the firmware new.
○ Refer to the service manual, topic section "Firmware".

6006 Speedofont data

- Status** Defective speedo fonts.
- Measure** → Load the firmware new.
○ Refer to the service manual, topic section "Firmware".

6007 Print ctrl. stop

- Status** The print control doesn't start, what means that the printer doesn't finish the initialization phase after switching it on.
- Measure** → Read in the service manual, what to do:
○ Refer to the service manual, topic section "Firmware" or "Firmware Gen. 3", chapter "Error messages".

6008 ZPL Fixfont data

- Status** Defective fixfonts.
- Measure** → Load the firmware new.
○ Refer to the service manual, topic section "Firmware".

6009 ZPL Speedo data

Status Defective speedo fonts.

Measure → Load the firmware new.

○ Refer to the service manual, topic section "Firmware".

6010 Printengine soft

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

6011 Material Change

Status Not an error but a request to change the material.

If the material designation of a print job differs from that of the previous one, the printer shows the new designation with the message 6011 on the display to alert the user to a necessary material change. The material designation can optionally be defined in the Easy Plug command #IM.

Measure → Acknowledge by pressing the online button. Insert the matching material. Start next printjob.

6012 Start next job

Status The message appears at the end of a printjob, if the single job mode (SYSTEM PARAMETERS > Single job mode) is activated. It indicates, that the next printjob should be started.

Measure → Acknowledge by pressing the online button. Start next printjob.

6030 New Parameters

Status By loading a new firmware version, some new parameters have been added to the parameter menu.

Measure → None. The message is merely informativ.

6101 No sensor found

Status Error during the running of the "Sensor Test" service function.

Measure → Acknowledge by pressing the online button.

→ Contact service technician.

6200 Filesystem regis

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

6201 File sys. format

Status Error during formatting of the RAM disk or the memory card.

Measure → Switch printer off and then back on again after thirty seconds. If the error message continues to appear, please contact the manufacturer.

6202 Drive open

Status Accessing the memory card failed.

Measure → Format the memory card using the PC card drive. Try again to write onto the card.
→ Try another memory card.

6203 Filesystem close

Status Accessing the memory card failed.

Measure → Format the memory card using the PC card drive. Try again to write onto the card.
→ Try another memory card.

6204 Disk directory

Status Work directory cannot be opened.

Measure → Acknowledge by pressing the Online button.
→ Check designation existence of the work directory.

6205 Write disk

Status Error during writing on RAM disk or memory card.

Measure → Acknowledge by pressing the Online button.

6206 Read disk

Status Error during reading from RAM disk or memory card.

Measure → Acknowledge by pressing the Online button.

6207 No file card

Status No CompactFlash-card found.

Measure → Acknowledge by pressing the Online button.
→ Check, if a memory card is inserted.
→ If the memory card was inserted after switching on the printer: switch the printer off and on again.

6208 Drive xx full

Status Writing on drive xx failed, because there is not enough free space.

Measure → Acknowledge by pressing the Online button.
→ Free space on the drive.

6300 Out of memory

Status Not enough free memory available, to load additional print jobs. The job buffer is completely filled with print jobs.

Measure → Delete spooler using the parameter [SPECIAL FUNCTION > Delete spooler](#).

6301 Incomplete job

Status The Easy Plug interpreter failed interpreting a certain print job to the end. The print job has possibly not been terminated by a #Q-command.

Measure → Check, if the print job is properly terminated with #Q.

6310 Centr. Timeout

Status The Easy Plug command #!Xn triggers a status acknowledgement via centronics Interface. But the PC doesn't pick up the supplied data.

Measure → Check the data line connecting printer and PC.

6311 Centr. Timeout

Status The Easy Plug command #!Xn triggers a status acknowledgement via centronics Interface. But the PC doesn't pick up the supplied data.

Measure → Check the data line connecting printer and PC.

8001 Shared Memory

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .

8002 Stream Buffer

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .

8103 TrueDoc Font

Status Error: font with the number given is not contained in the system.

Measure → Check font no., if necessary select another font.

8104 Speedo alloc

Status Fault while initializing the speedo fonts.

Measure → Load firmware new.
○ Refer to the service manual, topic section "Firmware".

8105 Load TrueType

Status Damaged font file.

Measure → Switch printer off and then back on again after thirty seconds.
→ Reload font file, if necessary select another font.

8106 Fonttype wrong**Status** General software error.**Measure** → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .**8107 Character set****Status** General software error.**Measure** → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .**8108 Symbol set****Status** General software error.**Measure** → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .**8109 TT-specifications****Status** General software error.**Measure** → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .**8110 Unknown char.****Status** Character is not included in the character set (character set does not support all characters).**Measure** → Select another character / character set.**8111 Stream type****Status** General software error.**Measure** → Switch printer off and then back on again after thirty seconds.
○ Please read the notes in section [General software errors](#) .**8112 Font not supp.****Status** The applied Truetype font is not supported by the system. Text, which uses this font, is ignored.**Measure** → Use another Truetype font.**8200 Fixfont number****Status** Incorrect fix font no.**Measure** → Check fix font no., alter if necessary.

8201 Font downl. full

Status The font download buffer is full.

Measure

- Allocate more memory for the download buffer using the parameter
SYSTEM PARAMETERS > Font downl. area.
- Rename some speedo-fonts on the CompactFlash-Card, you actually don't use. All speedo-fonts named fontxxx.spd (xxx = font no.) are being loaded into the font download buffer while system startup.
- For Details refer to the manual „Cards“, subject section „Using cards“, paragraph „memory card“.

8202 Font deleted

Status Attempt to access a font, which is no longer available on memory card or on RAM disk (font was deleted or renamed).

Measure → Check the label layout. Load the not available font or use another, available, font.

8300 Bar code corr.

Status Error: a bar code correction factor greater than +/- 25% has been selected.

Measure → Reduce correction factor.

8301 Bar code data

Status Incorrect bar code data. The bar code data is not permitted for the selected bar code type.

Measure → Use data permitted for the bar code type.

8302 Barcode checksum

Status Error during calculation of the bar code check sum.

Measure

- Check transmitted data.
- If the error continues to occur please contact the manufacturer. Send the transmitted Easy Plug data.

8303 Bar code sample

Status Error during calculation of the bar code sample.

Measure → Check whether the transmitted data is permitted for the bar code type; if necessary alter the data.

8304 Bar c. plain-copy

Status Error during integration of the plain-copy line in the bar code sample.

Measure → Check whether the transmitted data is permitted for the bar code type; if necessary alter the data.

8305 Bar code print

Status Error during calculation of the bar code print image.

Measure → Acknowledge by pressing the Online button.

Measure → Check whether the transmitted data is permitted for the bar code type; if necessary alter the data.

8306 Plain-copy len.

Status Illegal: bar code plain-copy line has more than 300 characters.

Measure → Reduce line length.

8307 Readline dist.

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

8308 Bar code ratio

Status Illegal bar code ratio.

Measure → Select another ratio.

8309 Module range

Status Maximum range of the bar code module exceeded.

Measure → Reduce module range.

8310 Bar code element

Status Bar code element exceeds the maximum permitted size of 253 dots (21 mm).

Measure → Reduce size of the bar code element.

8311 Barcode table

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

8400 PDF417 ECC

Status Bar code PDF417: incorrect ECC level (Error Correction Level).

Measure → Alter ECC level.

8401 PDF417 Lines

Status Bar code PDF417: illegal number of lines.

Measure → Alter number of lines.

8402 PDF417 Columns

Status Bar code PDF417: illegal number of columns.

Measure → Alter number of columns.

8403 PDF417 Style

Status Bar code PDF417: incorrect style.

Measure → Alter style.

8404 PDF417 Command

Status Bar code PDF417: incorrect command.

Measure → Acknowledge by pressing the on-line button.

→ Check and alter commands.

8405 PDF417 Size

Status Bar code PDF417: incorrect size.

Measure → Alter size.

8406 PDF417 Details

Status Bar code PDF417: incorrect details.

Measure → Alter details.

8407 PDF417 Coding

Status Bar code PDF417: coding error.

Measure → Switch printer off and then back on again after thirty seconds.

→ Acknowledge by pressing the Online button.

8500 Code 25Int len.

Status Bar code Code 25 Interleaved: input line too long.

Measure → Shorten input line.

8501 Postcode length

Status Bar code postcode: illegal data length.

Measure → Check length of the transmitted data and set it to the permitted length.

8600 EAN Length

Status Bar code EAN: illegal data length.

Measure → Check length of the transmitted data and set it to the permitted length.

8601 UPCE Numbers sys.

Status Error: First data character of the transmitted data is not 0 or 1.

Measure → Alter first data character to 0 or 1.

8705 IDM rows/columns

Status The input data does not match the given matrix or the number of rows/columns is invalid.

Measure → Change the number of rows/columns or the input data.

8760 EAN128 field len

Status The number of data after a data identifier does not correspond to the definition for this data identifier.

Measure → Change the number of data.

8761 EAN128 Data type

Status The data type (alphanumeric, numeric) after a data identifier does not correspond to the definition for this data identifier.

Measure → Change the data type.

8762 EAN128 Ident.

Status Invalid data identifier.

Measure → Change the data identifier.

8800 Maxicode Mode

Status Maxicode: faulty mode

Measure → Change mode.

8801 Maxicode Sys no

Status Maxicode: incorrect system no.

Measure → Correct system no.

8802 Maxicode Zipcode

Status Maxicode: incorrect zipcode.

Measure → Correct zipcode.

8803 Maxicode Class

Status Maxicode: faulty class code.

Measure → Correct class code.

8804 Maxi. Sec. mess.

Status Maxicode: secondary message has an illegal length.

Measure → Correct length of secondary message.

8805 Maxicode Country

Status Maxicode: faulty country code.

Measure → Correct country code.

8830 Cod49 Datalength

Status The user data string is too long. Not all characters can be coded in the bar code. The bar code is not printed.

Measure → Shorten the data string.

8031 Cod49 wrong data

Status The data string contains wrong characters. The bar code is not printed.

Measure → Correct the content of the data string.

8850 Unknown filetype

Graphic files with the extension declared in the Easy Plug command #YG are not supported.

Measure → Transform the graphics file into another file format or use another graphic in a supported format. Check, if the spelling of the file extension is correct.

8851 Graphic open

Status The graphics file declared in the Easy Plug #YG command cannot be found on the compactflash card. Possible reasons are:

- Path and/or designation of the graphics file stored on the compactflash card doesn't match the path and/or designation declared by the #YG command.
- The file is not available on the compactflash card.

Measure → Check if the spelling of the graphics file is the same both in the #YG command and on the compactflash card.

8852 Graphic header

Status A graphics file declared by a Easy Plug #YG command should be proceeded. The file header doesn't match the file.

Measure → The graphics file is possibly faulty. Check the file and replace it if necessary.

8853 Graphic palette

Status A graphics file declared by a Easy Plug #YG command should be proceeded. Error reading the graphics palette.

Measure → The graphics file is possibly faulty. Check the file and replace it if necessary.

8854 Graphic read

Status A graphics file declared by a Easy Plug #YG command should be proceeded. Error reading the file.

Measure → The graphics file is possibly faulty. Check the file and replace it if necessary.

8856 Free store size

- Status** By setting parameter `SYSTEM PARAMETER > Free store size`, a part of the memory is reserved, which the printer firmware can use if necessary (dynamic memory allocation). If this memory area is dimensioned too small, the printer firmware can not work and this error message shows up. One cause may for example be, that data are supposed to be loaded, whose size exceeds the reserved memory (e. g. graphics).
- Measure** → Enlarging the reserved memory partition, that is increasing the value of `SYSTEM PARAMETER > Free store size`.

8857 Wrong mem config

Wrong memory configuration

- Status** Too much memory requested by parameters. The following parameters request more or less memory:

- `SYSTEM PARAMETER > Font downl. area`
- `SYSTEM PARAMETER > Ram disk size`
- `SYSTEM PARAMETER > Free store size`

The fault occurs, if the sum of requested memory space exceeds the amount of available memory.

After error confirmation, the relevant parameters are set back to their default values. Furthermore, a restart is triggered.

- Measure** → Change the settings of the relevant parameters.

8900 Codablock columns

- Status** Bar code Codablock: illegal number of columns.

- Measure** → Correct number of columns.

8901 Codablock rows

- Status** Bar code Codablock: illegal number of rows.

- Measure** → Correct number of rows.

8902 Codablock softw.

- Status** Bar code Codablock: software error.

- Measure** →

8903 Codablock infogr

- Status** Bar code Codablock: info not in line.

- Measure** →

8950 Logo open

Status Failure when attempting to read a logo, which has previously been copied on RAM disk or on memory card (thus using Easy Plug command #DK).

Measure → Repeat loading the logo via #DK command.

→ In cases of continuous occurrence of this error, please contact the technical support.

8951 File format

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

8952 Not installed

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

9000 Wrong errornum

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

9001 Software Error

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

○ Please read the notes in section [General software errors](#) .

9003 Print head type

Status A wrong printhead type is selected in the printer menu.

Measure → Correct the setting of the printhead type.

○ Set the printhead type using parameter `SPECIAL FUNCTION > Printhead type`.

9005 No Printhead

Status Printhead could not be detected. Possible causes:

- Printhead cable not connected
- Wrong printhead type
- Defective printhead cable
- Defective CPU board
- Printhead cable plugged into wrong connector on the CPU board

Measure → Check printhead cable, printhead and CPU board and replace defective parts.

9007 Bad MAC Address

- Status** This error message is displayed, if an invalid MAC address is programmed to the CPU board. Valid means, the MAC address matches the range *00.0a.44.xx.xx.xx*.
In this case, the network will not be initialised. To enable work with the network, a valid (Avery-) MAC address must be programmed on the board. This can only be done by an authorized service technician or by the manufacturer.
- Measure** → Acknowledge the status message by pressing the Online button. The printer will be starting, but cannot be used with a network.
→ Contact the technical support for a new programming of the board's MAC address.
→ If a new programming is not possible, exchange the CPU board.

9008 Powerfail signal

- Status** "powerfail" is a signal at the power supply, which is normally activated for a short time, after the printer has been switched off. It triggers the storing of parameter settings and counter values, using the leftover of supply voltage.
The powerfail signal is already active after switching the printer on. The following causes are possible:
-- Defektive power supply
-- Defektive data cable
-- Defektive board
- Measure** → Switch the printer off and on again. If the error occurs repeatedly:
→ Check the hardware (see above).
■■■■➡ After acknowledging the message (pressing the online button), the printer works normal. But be aware that the powerfail signal is deactivated, what means, that no parameter settings and counter values are stored, when the printer is switched off.

9009 Temporary MAC

- Temporary MAC address.
- Status** This error message is displayed, if the MAC address has the value *00.0a.44.00.00.00*. This MAC address is used only during production.
- Measure** → Acknowledge the status message by pressing the Online button. The printer will be starting and the network can be used.
→ Contact the technical support for a new programming of the board's MAC address.
→ If a new programming is not possible, exchange the CPU board.

9011 Load firmware for x

Status At least one external device has no valid (e.g. an incomplete) application program loaded. This is the reason, why the device remains in the bootloading status and signalizes this status message. „x“ can be one of the following module names:

- Feed driver
- Foil driver
- Peripheraldriver
- USI interface
- Intern. rewinder
- Applicator int.

Measure → Load a valid application program.

9013 Head voltage

Status Faulty 5 V print head supply voltage. Possible causes are:

- *Only AP 5.4:* Printhead was connected to the wrong connector on the CPU board.
- Short circuit, possibly is the printhead defective.

Measure → *Only AP 5.4:* Check if the printhead is connected to the correct connector on the CPU board. Change the connector, if necessary.
→ Replace the printhead

9014 Motor voltage

Status Faulty 45 V motor supply voltage. A possible cause is a short circuit, that is the printhead is defective.

Measure → Replace the printhead

9015 Network init.

Status Error during the network initialization.

Measure → Contact your network administrator.

9016 DHCP Failed

Status DHCP failed. This may happen, if parameter `INTERF. PARAM. > ETHERNET PARAM. > IP Adressassign` is set to *DHCP*, but no IP-address can be drawn.

Measure → Contact your network administrator.

9017 RTC read failed

Status Error, while trying to read the realtime clock (RTC). Happens, if an Easy-Plug command to read out the RTC is sent, but no RTC is built in.

Measure → Check, if the printer is supplied with a RTC. To do so, print a status printout.

- See parameter [INFO PRINTOUT > Printer status](#)

You find the actual date on the printout, below the header „Systemversion“, if a RTC is installed.

- Check, if the error occurs repeatedly or sometimes.

If it occurs repeatedly:

- AP 5.4: replace the CPU board.

64-xx / ALX 92x / DPM / PEM: Replace the RTC. If the error still occurs, replace the CPU board.

- If the error occurs sometimes, please refer to the notes in section [General software errors](#) .

9018 #!CA wrong Pos.

Status The #!CA command is placed at an inadmissible position – the Easy-Plug interpreter can not proceed the command at this position (e. .g during the loading of files onto a memory card).

Measure → Call the #!CA command at an admissible position.

9021 Unmg. Exception

Unmanaged exception

Status General software error.

Measure → Switch printer off and then back on again after thirty seconds.

- Please read the notes in section [General software errors](#) .

9022 No network link

Status This message can only occur, if the Ethernet address assign is set to DHCP. The cause is nearly always a badly connected network connector.

Measure → Check, if the network connector is plugged in properly.

9023 Filename: Functionname() Line: xxx

Status This status message indicates a software error. The error source is located in the source file “Filename” in function “Functionname()” in line xxx.

Measure → Switch device off and on again.

If the error occurs repeatedly:

- Contact the manufacturer.

When doing so, it is important to be able to reproduce the error. Gather the following informations before calling the technical support of the manufacturer:

- Displayed information about the error source
- Label layout, logfiles, etc. as described in chapter [Unspecific errors](#) .

9024 Not possible !

Status Detecting the material length (a function, which is normally used with MLI) is not possible, because a printjob is currently processed.

Measure → Retry as soon as the printjob is processed.

9025 24V Voltage miss

■■■■➔ Concerns machines with APSF function.

Status The 24 V supply at the APSF interface is interrupted.

Measures ➔ Check 24 V at the power supply.

➔ Check cable for contact.

9030 Log file:CF full

Status An attempt to store data on the memory card was not successful, because of a full card.

Measure ➔ Clear some storage space on the memory card, or

➔ Insert an empty memory card.

9031 Log file: nnnn

Status File access error. *nnnn* = error code of the operating system.

Measure ➔ Repeat the operation, which led to this message. If it comes to this message repeatedly, send a message to the Technical Support, including the error code.

9032 EP file log stop

Status Internal error during Easy-Plug file logging (SPECIAL PARAMETER > EasyPl. file log).

Measure ➔ Repeat operation. If the error occurs repeatedly: switch off the file logging.

■■■■➔ Use parameter SPECIAL PARAMETER > EasyPl. file log only for error analysis purposes. Using the parameter in continuous operation can cause error messages, which are hard to understand.

9034 Use min 16MB RAM

Status The printer has not enough RAM. The applied firmware version needs at least 16 MB RAM for faultless operation.

Measure ➔ Extend the printers RAM.

9035 No printpr. stop

Status This status message may appear during the loading of new firmware onto the H8 (64 Bit) or onto boards, which are connected to the H8 (e.g. Applikator Interface).

Measure ➔ Switch the printer off and on again and retry the firmware loading.

9038 No gap found

Status The automatic calibration of the label pitch (Feed + Prog keys) failed because no punch was detected after 500 mm feed.

Measure If the label pitch is greater than 500 mm:

➔ Enter label pitch value manually in the parameter menu

If the label pitch is less than 500 mm (punch was not detected):

- Check function/setting of label sensor, see description of measures for error 5001

9039 Ribbon mode chg.

- Status** The ribbon mode was changed between two consecutive printjobs via Easy-Plug command (from thermal transfer to thermo or vice-versa).
- Measure** → Check the ribbon mode setting and, if necessary, change the setting (SYSTEM PARAMETERS > Ribbon autoecon.).

9040 No Time Server

- Status** Comes up one times at startup, if INTERFACE PARA > NETWORK PARAM. > Time client is set to "On" and there is no response from the set time server.
- Measure** → Check the time server availability respectively the time server settings.

9100-9119 Messages during firmware update

9100 Invalid format

- Status** Occurs during a download. The sent data is faulty, e. g. regarding an
- invalid data format
 - invalid check sum
 - invalid address
 - invalid record type
- Measure** → Switch printer off and on again. Check the download data.

9101 Invalid Header

- Status** Occurs during a download. The sent files have a format error in the header.
- Measure** → Switch printer off and on again. Check the download data.

9102 Inv.Board Rev.

- Status** Occurs during a firmware download. The sent firmware does not match the *version* of the CPU board.
- Measure** → Switch printer off and on again. Check the download data.

9103 Inval. firmware

- Status** Occurs during a firmware download. The sent firmware does not match the installed CPU board.
- Measure** → Switch printer off and on again. Check the firmware file.

9104 Inv. Data Size

- Status** Occurs during a download. The size of the sent data doesn't match the file size indicated in the header.
- Measure** → Switch printer off and on again. Check the download data.

9107 Flash Overflow

- Status** Occurs during a download. The flash memory on the CPU board is full. No more data can be loaded.

Measure → Switch printer off and on again.

9108 Flash Ovf. Diag.

Status Occurs during a download. The flash memory on the CPU board has not enough free memory space left for diagnose data.

Measure → Delete data blocks in the flash memory or reduce max. size of the diagnose data.

9109 Flash Ovf. Params.

Status Occurs during a download. The flash memory on the CPU board has not enough free memory space left to store the current parameter settings.

■■■■➔ After a restart, the parameters are set to "Factory setting".

Measure → Delete data blocks in the flash memory.

9110 Flash Write Err.

Status Occurs during a download. The flash memory can't be accessed for writing.

Measure → Switch printer off and on again.

9111 PIC Update Fail.

Status Occurs during a firmware update or a PIC-controlled device, if the update failed.

Measure → Switch printer off and on again.

9112 PIC missing

Status Occurs during a firmware update of a PIC-controlled device, if no such device was found.

Measure → Check the configuration.
The status message is cancelled automatically. The download continues.

9113 RFID Update Fail.

Status Occurs during a firmware update of a RFID module, if the update failed.

Measure → Switch printer off and on again.

9114 RFID missing

Status Occurs during a firmware update of a RFID module, if no such device was found.

Measure → Check the configuration.
The status message is cancelled automatically. The download continues.

9115 AWID missing

Status Occurs during a firmware update of an AWID RFID module, if a RFID module of another manufacturer was found.

Measure → Check the configuration.
The status message is cancelled automatically. The download continues.

9116 Ser. Disp. Missing

Status Occurs during a firmware update of a serial operation panel, if no such device was found.

Measure → Check the configuration.
The status message is cancelled automatically. The download continues.

9117 Device Unknown

Status Occurs during a firmware update, if the device information in the header is missing.

Measure → Switch printer off and on again. Check the configuration.

9118 H8 Update Fail.

Status The update of a H8 device failed.

Measure → Switch printer off and on again.

9119 H8 missing

Status Occurs during a firmware update of a H8 device, if no such device was found.

Measure → Check the configuration.
The status message is cancelled automatically. The download continues.

9122 Checksum error

Status Checksum error while loading a firmware file. The checksum of the loaded data doesn't match the calculated checksum.

Measure → Repeat the download.
→ If the error continues to occur, the file is probably damaged or corrupted. Check/ exchange the firmware file.

9123 Memory unavailable

Status Error while loading a firmware file. There is not enough free memory available.

Measure

- Restart machine and repeat the download.
- If the error continues to occur: Reduce the memory which is assigned by the following parameters:
 - SYSTEM PARAMETERS > Ram disc size
 - SYSTEM PARAMETERS > Font downl. area
 - SYSTEM PARAMETERS > Free store size

LIST OF ILLUSTRATIONS (internal)

20.09.23

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**Es wurden keine Einträge für das
Inhaltsverzeichnis gefunden.**