NOTIFIER LCD-8200 Fire Detection Panel User Manual

NOTIFIER® by Honeywell

LCD-8200
FIRE DETECTION PANEL
Programming Manual
Firmware V.1.0

Contents

LCD-8200 Fire Detection Panel

NOTE:
Do not try to install the control unit and devices connected without reading this manual.

DETECTION SYSTEM LIMITS

An alarm or fire detection system can be very useful for the prompt warning of any dangerous event, such as fire, a robbery or a simple burglary, in some cases it can automatically manage events (transmission of messages for room evacuation, automatic fire-extinguishing, TVCC system interface, access route or door blockage, automatic warning to authorities, etc.), but in any case, it does not ensure protection against damages to propriety or damages caused by fires or robberies).
Moreover, each system may not properly operate if it is not installed and maintained according to the manufacturer's instructions.

PRECAUTIONS

-  These instructions contain procedures to be followed in order to avoid damages to equipment. It is assumed that the user of this manual has performed a training course and that he knows the applicable rules in force.
- The system and all its components must be installed in an environment having the following features:
- Temperature: -5 °C ¸ +40 °C.
- Humidity: 10 % – 93 % (without condensation).
- Peripheral devices (sensors, etc.) which are not perfectly compatible with the control unit may cause damages to the same control unit, and a bad operation of the system in any moment. Therefore, it is essential to only use material which is guaranteed by NOTIFIER and is compatible with its own control units. Please consult NOTIFIER Technical Service for any doubt.
-  This system, like all solid state components, may be damaged by induced electrostatic voltages: handles the boards keeping them among the edges and avoid to touch the electronic components.
- An appropriate earthing connection ensures, in any case, a sensitivity reduction to disturbances.
- Please consult NOTIFIER Technical Service if you cannot solve installation problems.

- Any electronic system does not operate if it is not powered. If power supply from the mains fails, the system ensures its operation through battery, but only for a limited period of time.
- During the system planning phase, take into account the autonomy required to appropriately dimension the power supply and batteries.
- Skilled personnel shall periodically check the state of batteries.
- Disconnect the MAINS and the batteries BEFORE removing or inserting any board.
- Disconnect ALL power supply sources from the control unit, BEFORE performing any servicing.
- The control unit and the connected devices (sensors, modules, repeaters, etc.) may be damaged, if a new board is inserted or removed, or if the powered cables are connected.
- The most common cause for malfunctioning is inappropriate maintenance.
- Take special care of these aspects since you start the system planning phase; this will facilitate future servicing and will reduce cost.

CE This panel is market with the CE label to comply with the following European Directives
: EMC Directive 2004/108/EC and LVD Directive 2006/95/CE)

National Standards

 This equipment must be installed and must comply with these instructions and regulations in force at the installation site.

GENERAL DESCRIPTION

LCD-8200 is a remote repeat panel for the AM-8200, with a 7 “color touch screen.
Connection to Panel:
It connects to the single AM-8200 Panel via an RS.485 serial line.
Along the above serial line can be connected up to 32 LCD-8200.

Configuration:

1. The panel must be configured locally as “GENERAL RECEIVER” or as “Partial”.
   Note: If configured as “Partial”, you must program through the PK-8200 the pairs to the Zones or Devices you want to display.
2. On the LCD-8200 panel, locate the device address locally (see procedure description). The programmable addresses range from 1 to 16 for both categories (GLOBAL or PARZIAL), for a total of up to 32 repeaters.

SPECIFIC PROGRAMMING
If programmed as “GLOBAL”, the LCD-8200 repeats all the messages on the control panel and if the control panel is in a CanBus network, repeats all network events.
In this case, you can perform the following functions:

- EVENT ACKNOLEDGE (Local Buzzer and Central Blur)
- RESET EVENTS
- Lamp test (LEDs and displays)
- Local Buzzer Test
- Historical Archive View

- USB storage of the AM-8200 historical store

If programmed as “PARTIAL”, the LCD-8200 allows the display of active events in the sensor / modules module or selected zones.
You can select up to 64 types of events, referring to the following states in the control panel, or zones or individual devices:

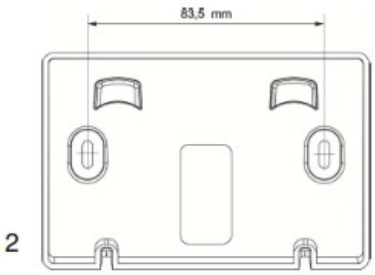
- Panel Faults
- Panel Exclusions
- Zone Alarm
- Zone Fault
- Fault / Zone Alarm
- Zone Exclusion
- Test Zone
- Sensor Alarm
- Sensor Fault
- Fault and Alarm of Sensor
- Sensor Exclusion
- Module Alarm
- Fault and Alarm of Module
- Module Exclusion

TECHNICAL CHARACTERISTICS

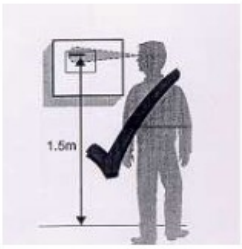
- 72Mhz microprocessor system, 1Gbit Nand Flash, 256Mbit DDR, 16Mbit Flash SPI
- Display 7 “wide TFT RGB 800×480-with resistive Touch Pad with LED backlight.Active area 152.5 mm x 91.44mm anti-glare treatment
- Serial lines:
  – 1 RS 485 interface
- Power supply: 11Vcc ÷ 30Vcc max (polarity inversion protection)
- Current Consumption
  – At rest 125mA @ 24Vcc (in the absence of anomalies)
  – In alarm 236mA @ 24Vcc
- Connections
  – 2 power supply leads
  – 2/3 conductors for serial line connection (2 with common power supplies, 3 with independent power supplies)
- Mechanics: The mechanics of the LCD-8200 panels are suitable for wall mounting.
  – Dimensions 213mm (L) x 118mm (H) x 27mm (P)
  – Degree of protection: IP 30
  – Operating temperature: -5 ° C to + 40 ° C
  – Relative humidity: Max 95% (no condensation)
  – Storage temperature: -10 ° C to + 50 ° C
  – Weight 410g

INSTALLATION

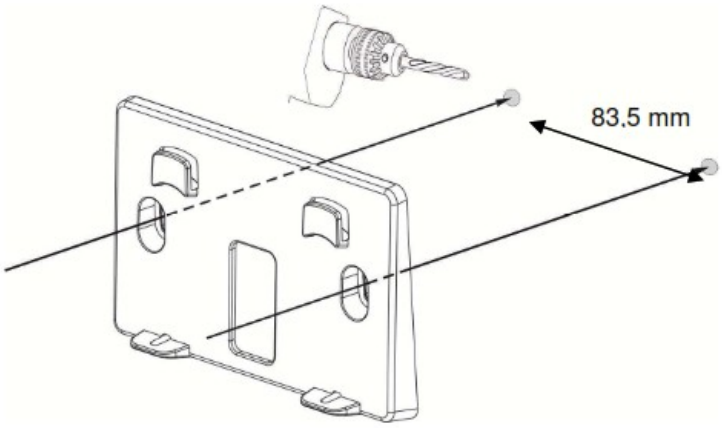
Dimensions for wall mounting

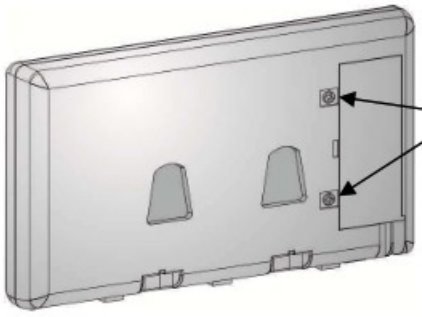


Staffa di supporto a muro



Installation of the LCD-8200 wall panel is done by fastening the wall mount bracket through n. 2 self-locking blocks (masonry walls) or self-tapping screws prefabricated panels, etc.).
The diameter of the screws used must be 5 mm. max. It is advised not to install the panel near heat sources (radiators, radiators, etc.).



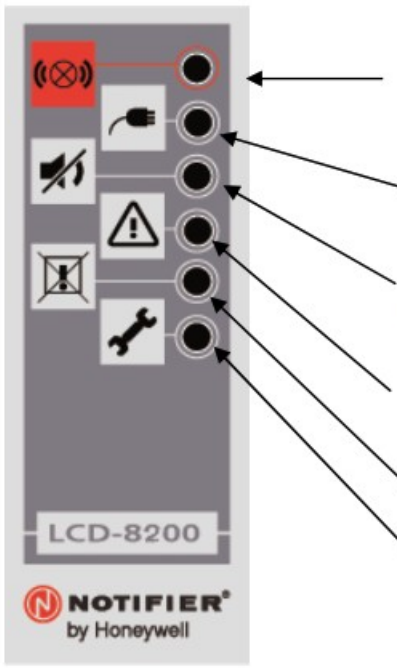


Open the cover by unscrewing the two fixing screws

Introduce the incoming cable to the CNU terminal block.
Secure the incoming cable with a cable tie.

It is recommended not to install LCD-8200 panels near heat sources (radiators, radiators, etc.).

SIGNALS ON THE FRONT PANEL



ALARM (Red):
Flashes if there is at least one alarm device and has not yet been recognized.
Fixed if all alarm events have been recognized.

Power (Green):
Fixed Fixed if panel is powered.

Silence Sounder (Yellow):
Switch on after the Silence Sounder command from AM-8200

Fault (Yellow):
Blinks in the presence of an unrecognized failure event.
Fixed if all the faults present have been recognized

Exclusion (Yellow):
Fixed On In the presence of dots or zones disabled.

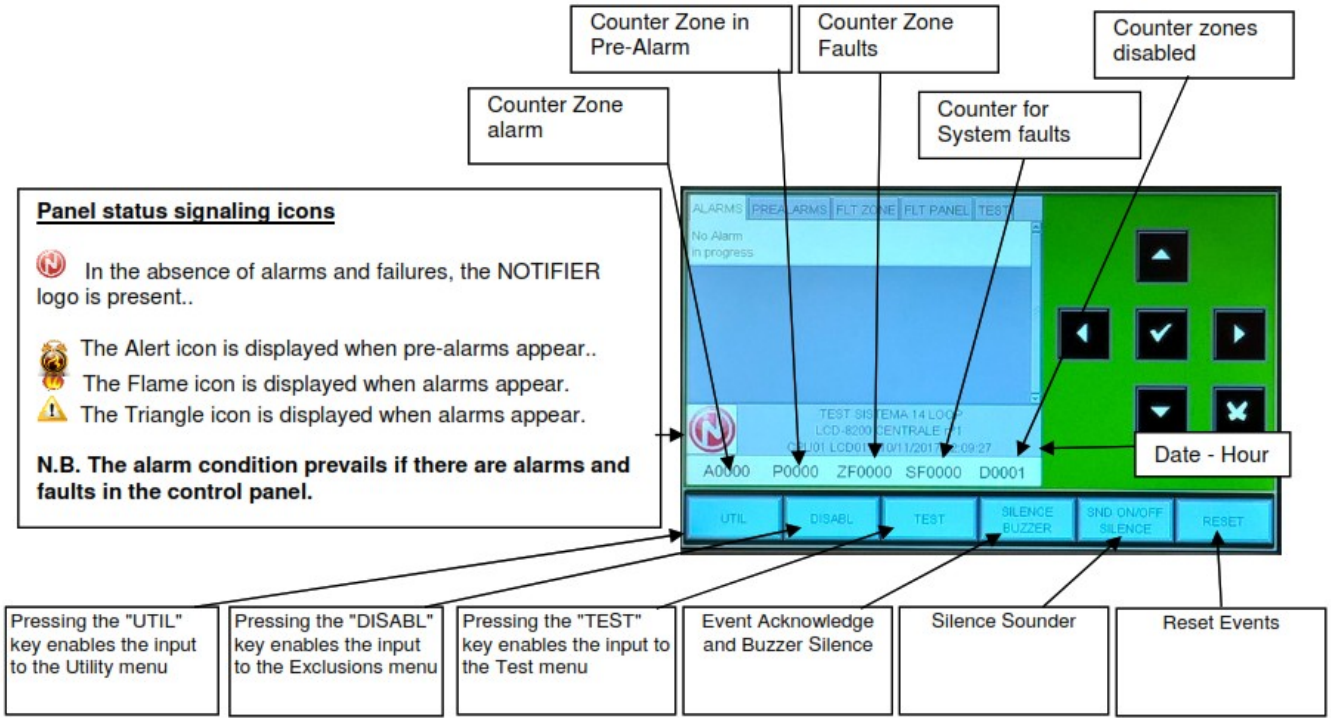
TEST (Yellow):
Fixed with walk test in progress.

USER INTERFACE DESCRIPTION

The following conditions apply to the panels programmed as “General”, while for the panels programmed as “Partial” you must associate the types of events to be displayed with the help of the PK-8200.

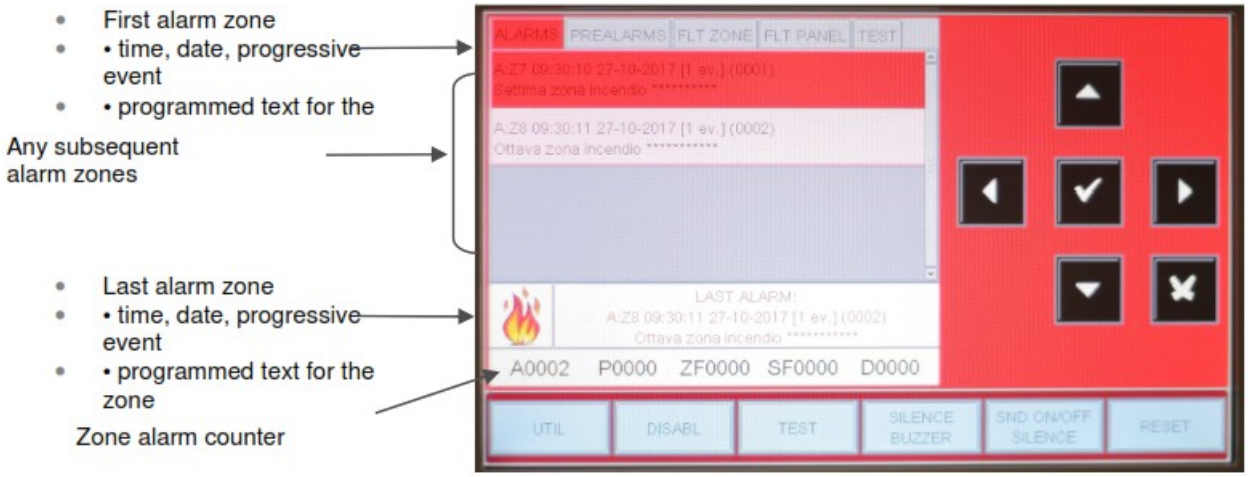
Normal condition

The following screen is displayed when there are no abnormal conditions on the panel (alarms or faults.

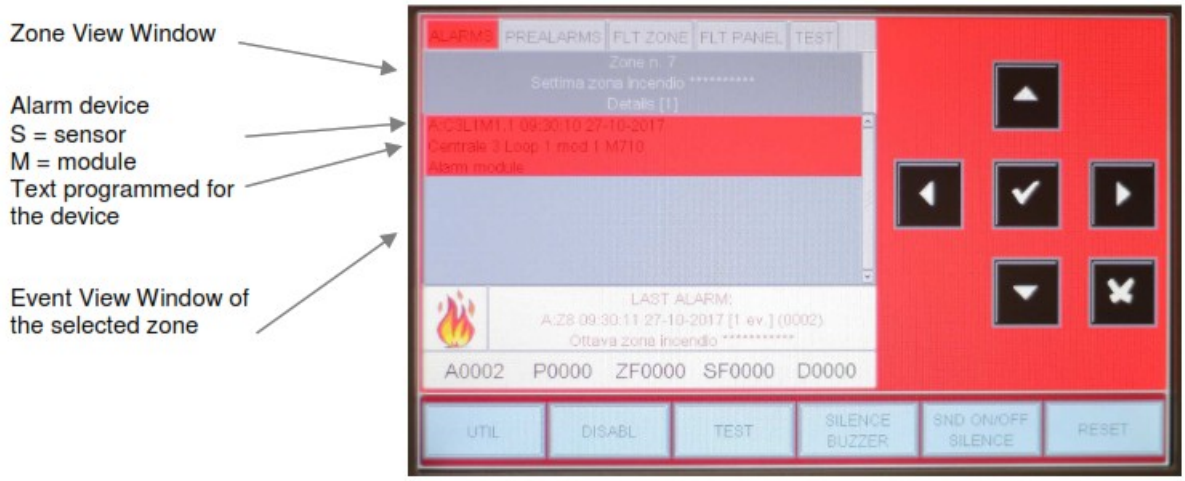


Condition with alarm zone events

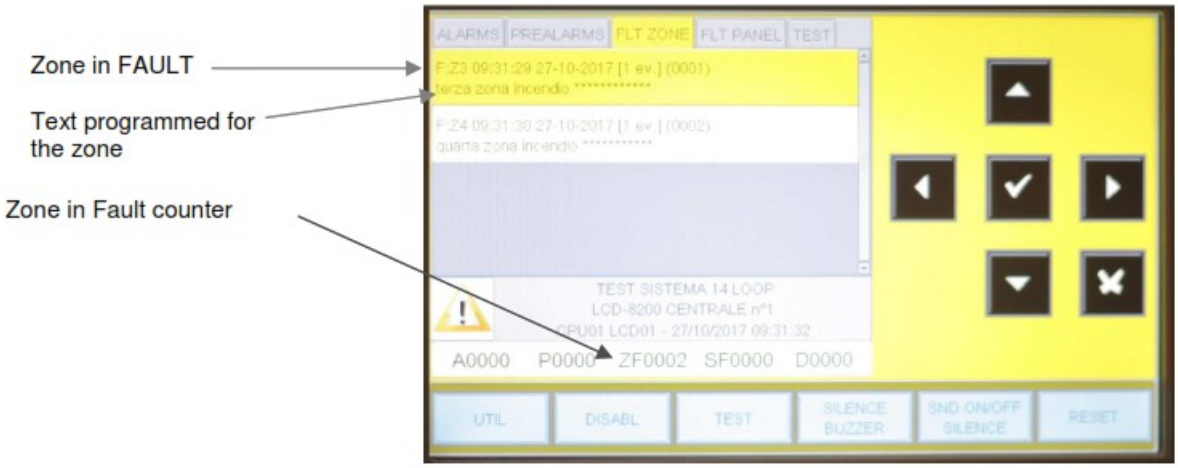
The following screen is displayed when there are zone alarms.



Use the arrow keys ▲▼to scroll through the list of alarm zones. By pressing the enter key ☑ you can access the list of alarm points in the selected zone, with the arrow keys ▲▼ you can scroll through the list of alarm devices

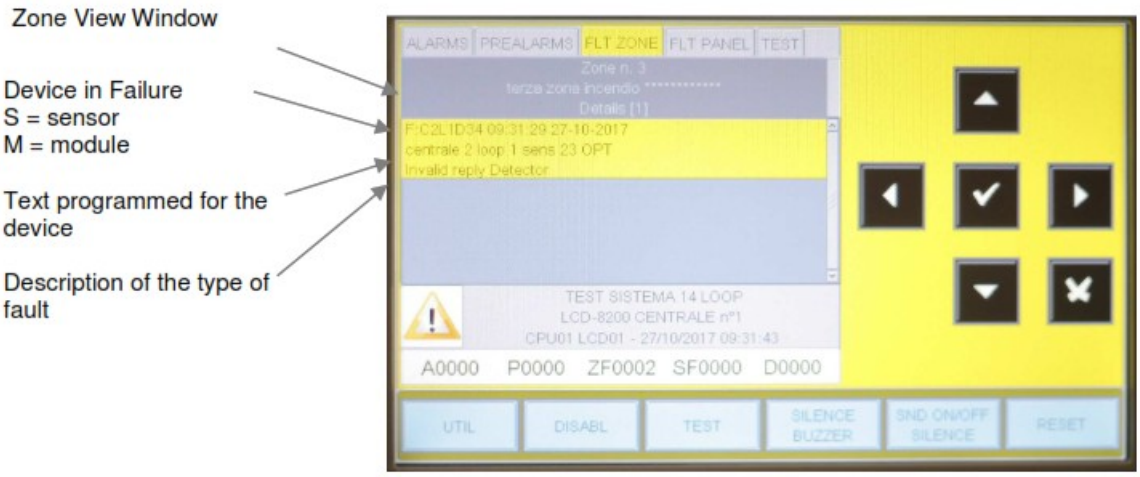


Condition with FAULTS events
The following screen appears when the control panel is in a zone fault condition.
Fault events are also initially displayed per zone.



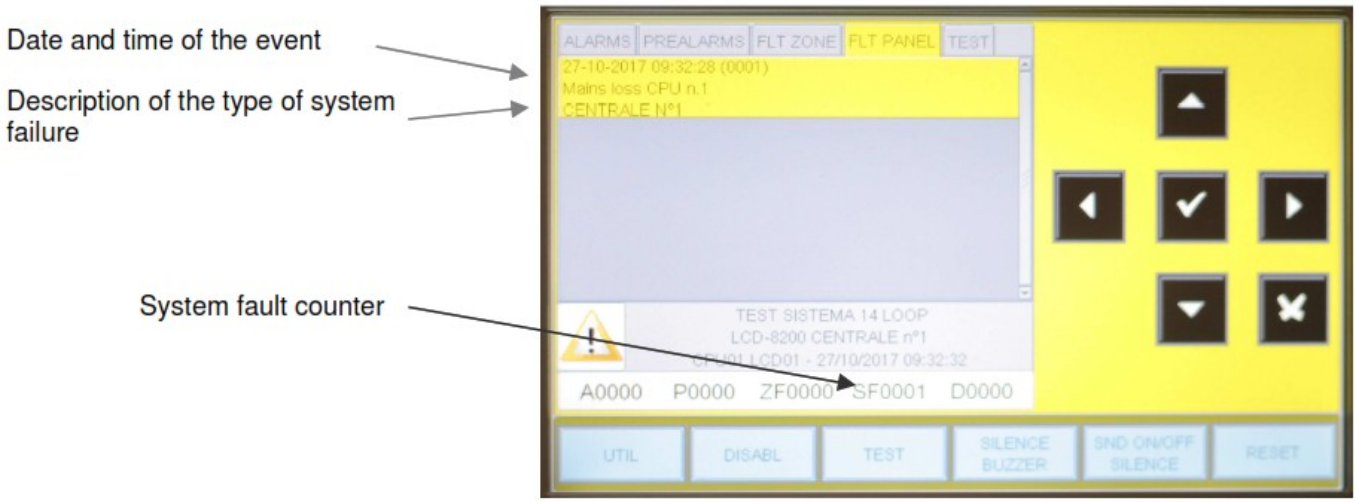
Use the arrow keys ▲▼ to scroll through the list of failed zones

At the first press of the ENTER key ☑ you will go to the list of devices displaying the name of the point see following figure



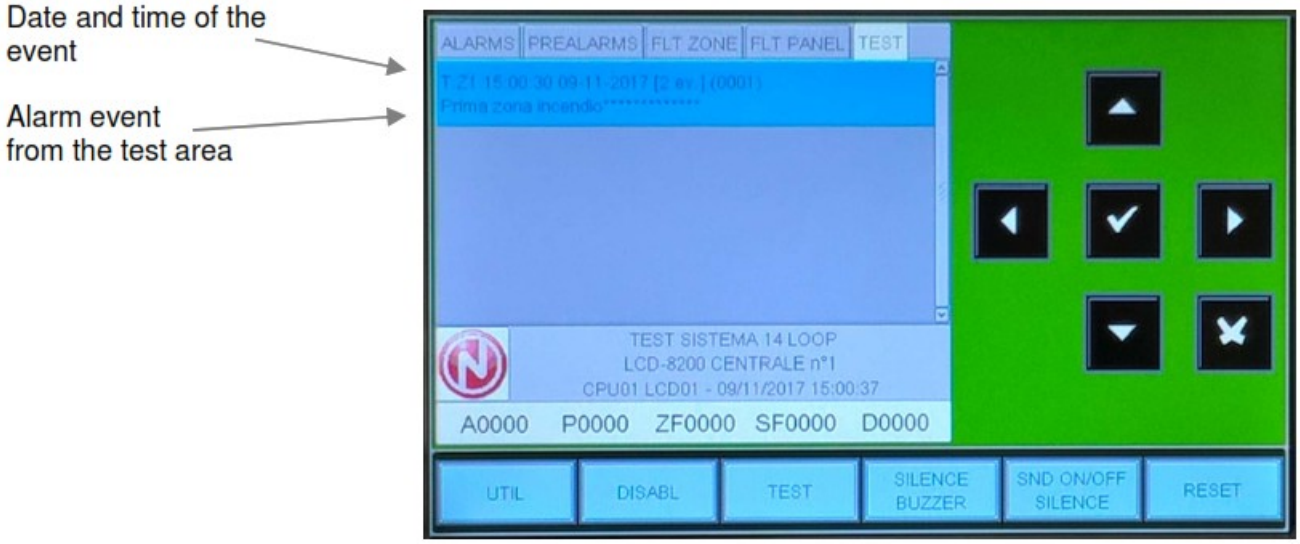
Pressing the escape key ✖ or leaving the keypad inactive for 30 “returns to the list of failed zones

Condition with System failure events (Panel Faults)
Fault related to the switchboard are defined as “system failures” (eg low battery, power failure, etc.). System failures are displayed with the highest level of detail.



Use the ▲▼arrow keys to scroll through the list of system failures

Condition with alarm events from a test zone



With the first press of the send key
you go to the list of devices with point name indication, as shown in the following figure.

You can scroll through the arrow keys ▲▼ the list of verified related devices to the test zone.

Utility menu
By pressing the “UTIL” key, you enter the programming menu after entering the level 3 password (corresponds to the password programmed in Central) the following menu appears:

Where:

Address and Viewer Type
Select the “Address” item to assign the device number to the LCD-8200 terminal.
The addresses to be assigned to LCD-8200 are from 1 to 16 (max 16 for “General” + max 16 for “Partial”)
Select the “Model” item to configure the device as a repeater of the central display or as a system partially display.
To enter programming, press the Enter key and use the arrow keys to select the device number and press the Enter key to confirm the data

History Log

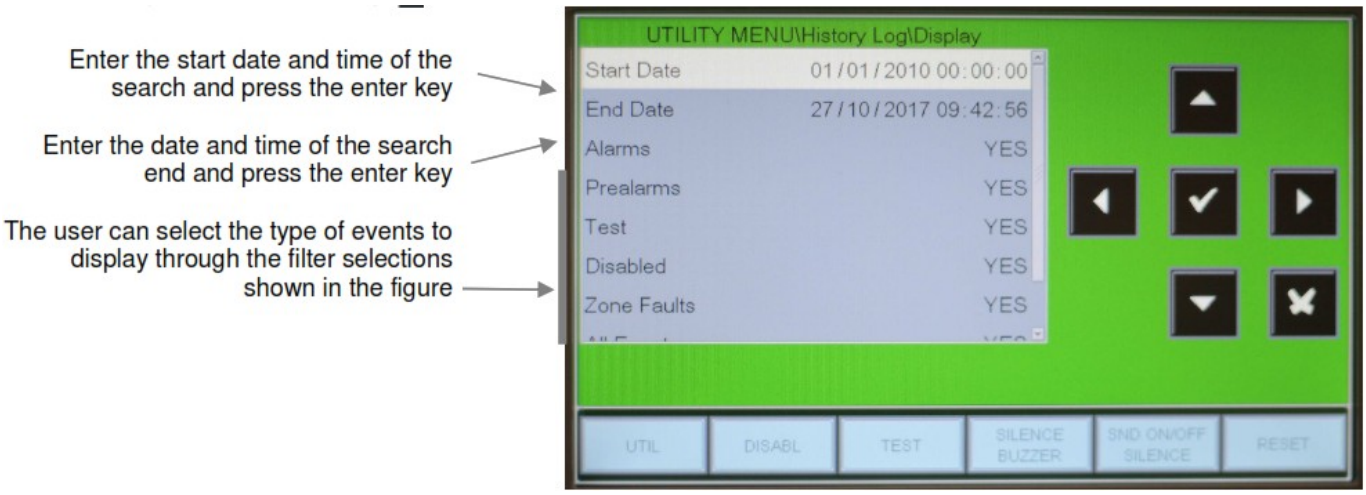
By selecting the Historical Archive entry, you access the following sub menus:

DISPLAY
Saving event logs

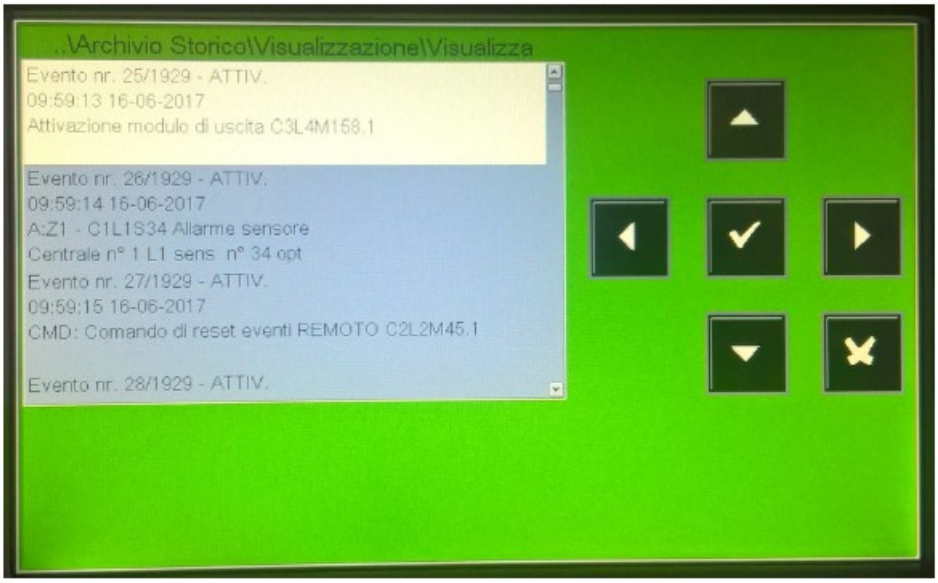
HISTORICAL ARCHIVE VISUALIZATION

This function allows the display of events (of the AM-8200) in the historical archive.
In this folder you can edit the filters for viewing by editing one or more parameters in this folder, you must select the parameter with the arrow keys ▲▼ (the characters of the selected field are in reverse), press enter ☑ to confirm the selection, and then use the arrow keys again to change the selected parameter.

At the end, press the Enter key ☑ to confirm the data



By running the “View” command, the first three events are displayed by default.
Use the ▲▼ arrow keys to scroll through the list of events in the historical store.



Saving event logs

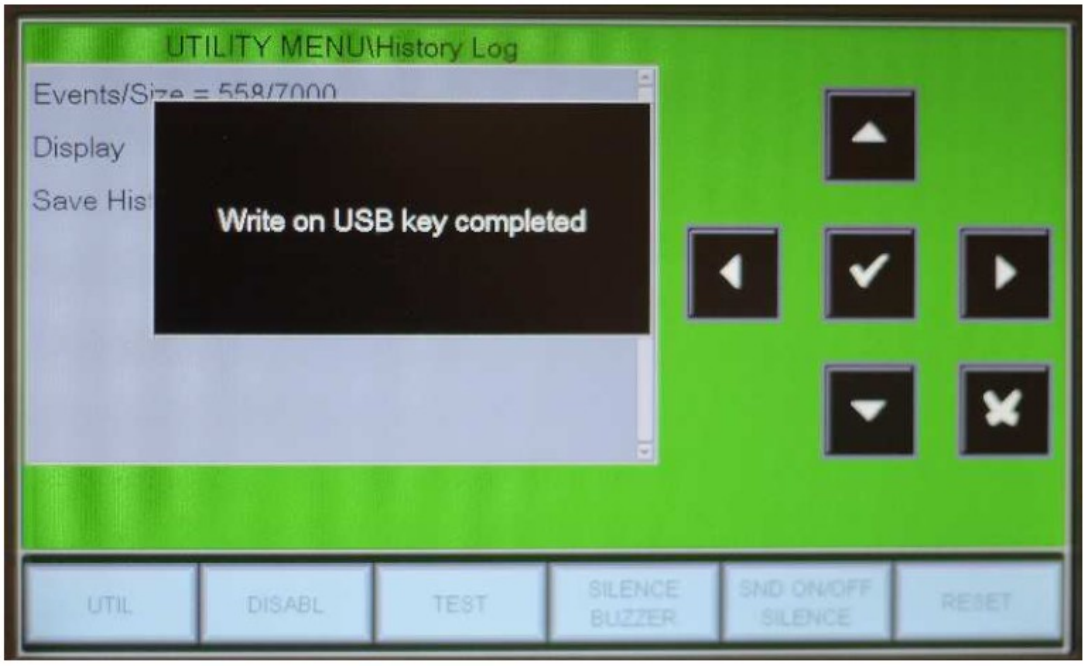
Function that allows events to be saved in USB media.

By performing the “Logging Event Log” function, the “Insert USB Stick” message appears on the panel display.

Inserting the USB key into the appropriate socket (CNUSB) on the bottom of the panel automatically starts the data saving process.

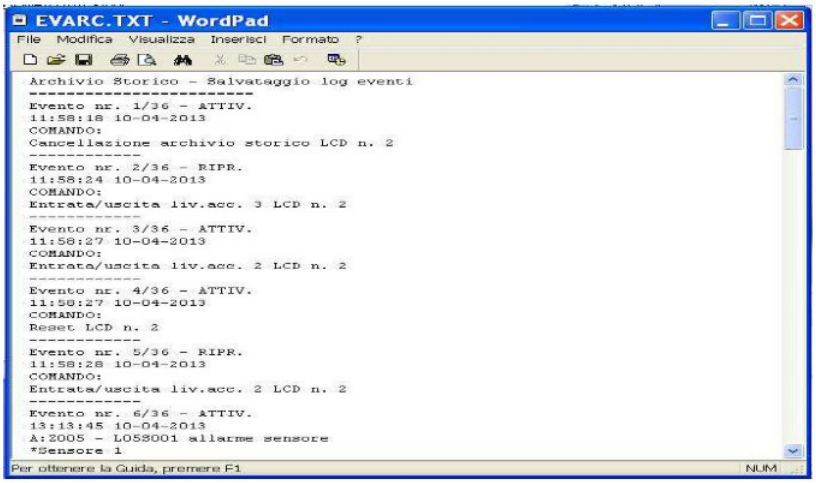
When the procedure is complete, the message “Write to USB key completed” appears on the panel display.

To complete the procedure, press the escape key and remove the USB key from the CNUSBEXT socket on the panel



On the Usb key in the main route, the file “EVARC.TXT”, this TXT format file, is editable and can be edited with any text editor.

File sample
EVARC.TXT



View Status

This function allows to examine the state of a point and in case of a detector, the analogue value can be displayed.

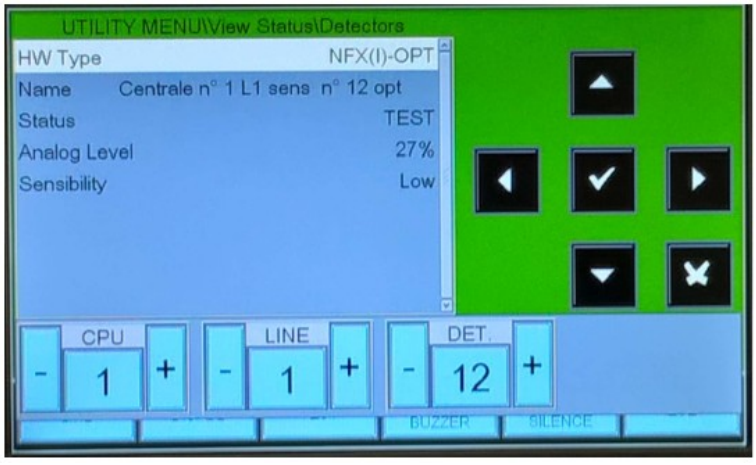
This value will be displayed as a percentage with respect to the alarm threshold programmed for that device.

Parameters relevant to modules, zones or software groups programmed can also be displayed.

- **Detectors**

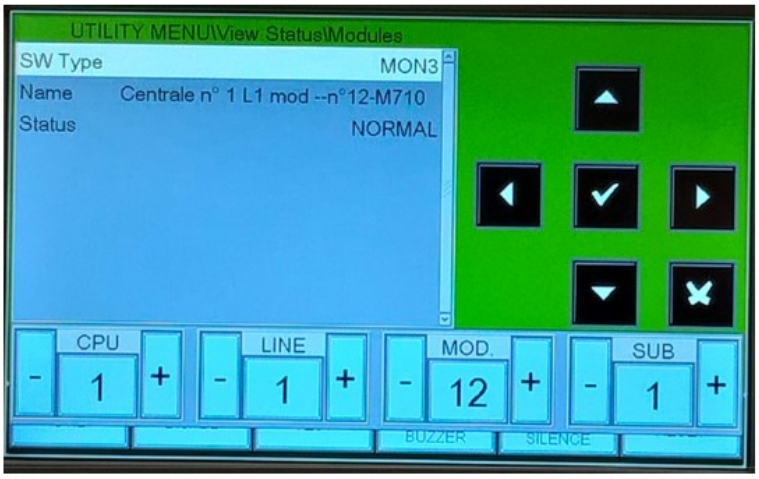
  The display shows by default the first detector of the first line.

  To select another detector use the function keys.



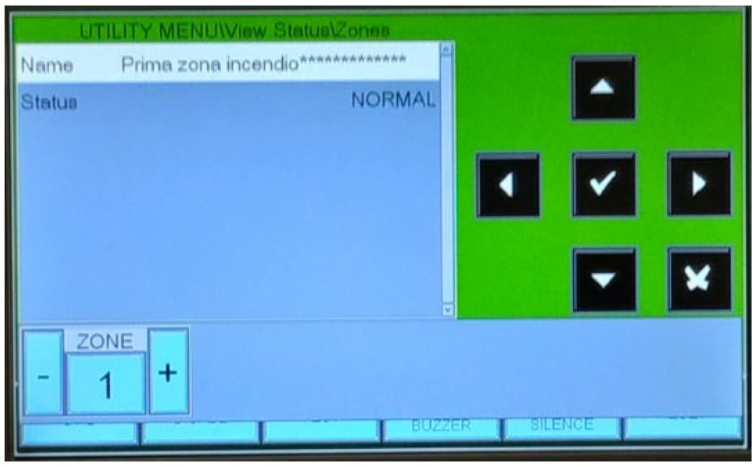
- **Modules**
  The display shows by default the first module of the first line.

  To select another module use the function keys.



- **Zone**
  The display shows by default the first Zone.

  To select another Zone use the function keys.



Firmware Version
Through this function the servicing personnel can display the firmware version installed in the LCD-8200.

Firmware Update
This feature allows us to upgrade a new firmware version using a USB stick to insert into the CNUSBEXT connector on the LCD-8200.

DISABLE MENU

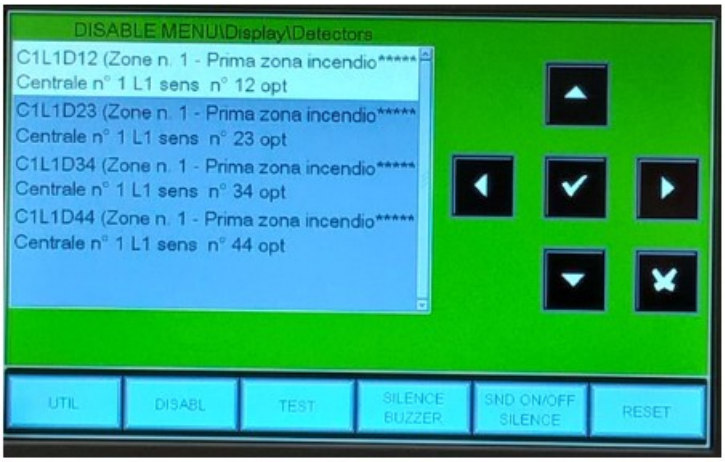
By pressing the DISABLE function key on the System Status screen, you can access the Disabled menu, where you can view detectors, modules, zones, etc. disabled.

Display
By selecting the “Display” item the user enter the following menu where devices are displayed by the type:

Counters of n° of Disabled Devices by Type

To display the Disabled device list , select through the arrow keys ▲▼ the type of device, press the enter key to confirm the selection.

• **Detectors**
List of the disabled detectors



• **Zones**
List of the disabled zones

• **Sistem**
List of the disabled system outputs

TEST MENU

By pressing the TEST function key in the System State, you can access the Test menu, where you will see all the programs on the AM-8200 dedicated to the functions commonly used by the technical support staff to test the system.
To enter the menu, you must enter Level 2 Password (the default password is 22222).

Main
This function allows the status of programming the test function to be displayed

- Zone

  Enable an area to test function. Where : (0 = test function not active)
- CBE Enabled

  If this function is enabled (CBE Enabled = YES), in case of alarm from the devices in the test zone, the CBEs associated with them are activated.

Outputs
This screen displays the possible output selected that will be triggered in case of alarm from a zone test device. The following items are displayed in the “Select” field:

- NONE = In case of alarm from the test zone, no outputs are active.

- SOUNDER = in the case of an alarm, the sounder output is activated, and all output modules programmed with Type-ID “SND” (all system) to each alarm event from the test zone. The activation duration is 3 sec..
- MODULE = in case of alarm from the test zone, the programmed output module programmed to “Module address” is activated and every alarm event will be active for 3 sec.

LED : Select this function to perform the lamp test.
LCD : Select this function to test the LCD.
BUZZER: Select this function to test the buzzer.

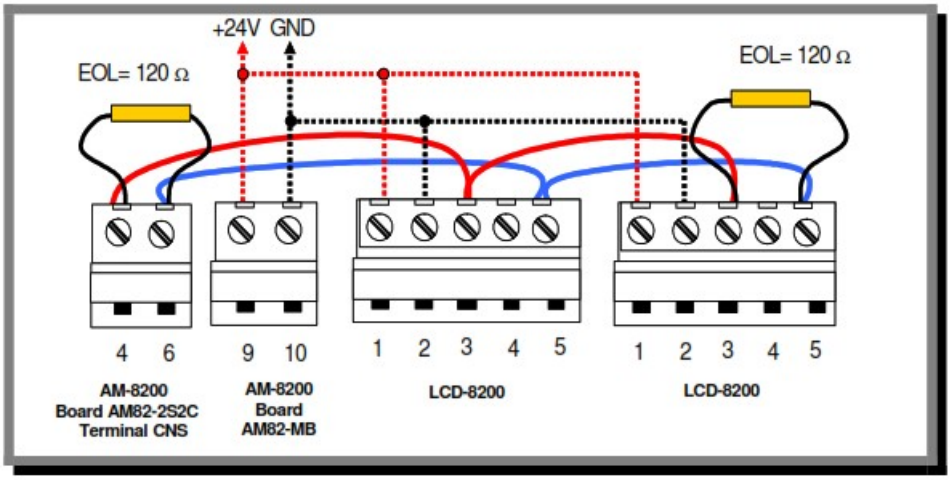
RS-485 serial Line

EN54-2 12.5
Link Integrity: The RS.485 network does not provide redundancy functionality in case of cut according to EN.54.

- The LDC-8200 panels are connected to the control panel via the RS.485 serial line.
- The RS.485 line must be installed in “MULTI-POINT” configuration (daisy chain).
- Each device must be programmed with an address between 1 and 16.

Installation with power supply in common from the Panel

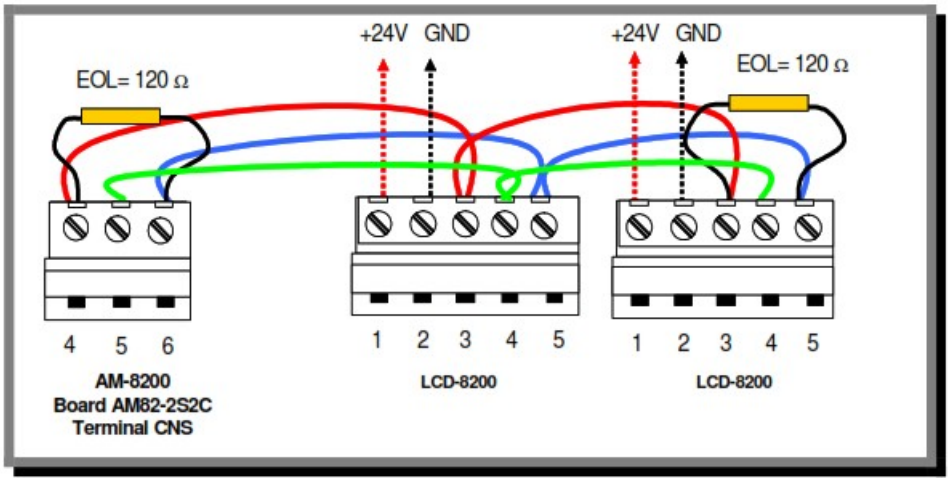
Connect two wires from the RS.485
terminals of the central (LIN + and LIN-) terminals to the corresponding terminals of the first device on the line.
Continue wiring from the first device to the next, and so on.
Install the end line resistance (120-, 0.5W) on the terminals of both the central unit and the last line device.
The maximum permitted length from the control unit to the last device is 1.5 km.
Use a shielded cable of the appropriate section type Belden 9841



Typical RS.485 connections with 24Vdc common (24V power supply voltage of the control unit)

Installation with independent power supplies

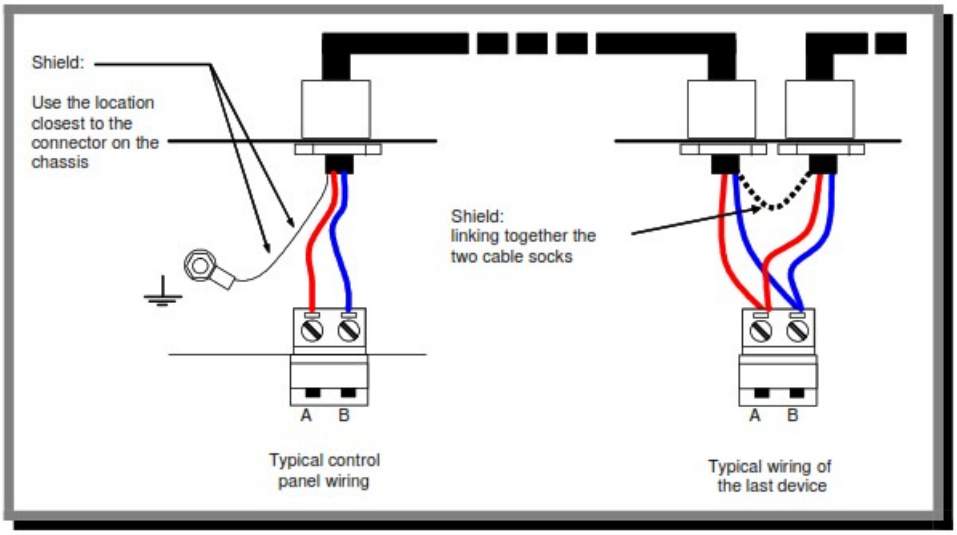
Connect the 3 wires from the RS.485 terminals of the control panel (LIN +, GND and LIN- terminals) to the corresponding terminals of the first device on the line.
Continue wiring from the first device to the next, and so on.
Install end line resistance (120Ω, 0.5W) on the terminals of both the central unit and the last line device.
The maximum length allowed by the control unit to the last device is 1.5km.
Use a shielded cable of the appropriate section type Belden 9841



Typical RS485 connections with independent 24Vdc power (LCD panels are powered by remote auxiliary power supplies).

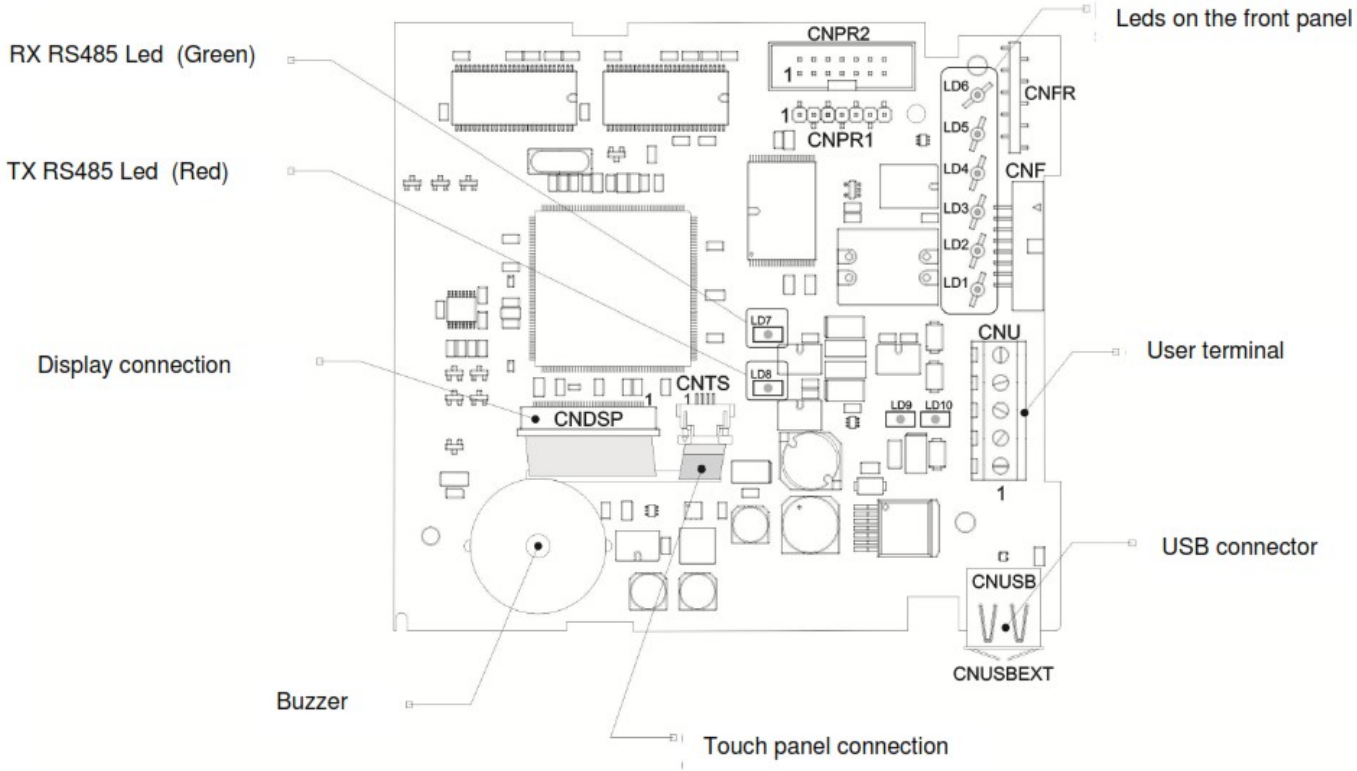
Shielded Cable and Grounding

During installation, consider the consequences of connecting remote land reference.
When making connections between RS.485 circuits, if a drain is available, this MUST NOT be connected to both ends of the equipment chassis.
The earth conductor must be connected ONLY at the end of the control panel. Leave the other end unconnected and isolated.



RS.485 Shielded cable and grounding

Topographic LCD-8200



Terminal CNU

N°	Label	Description
5	LIN –	RS 485 Serial line
4	GND	Negative reference for RS 485 serial line
3	LIN +	RS 485 Serial line
2	GND	POWER
1	+24Vcc	

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CE Every care has been taken in the preparation of this data sheet but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice.

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Documents / Resources

	**NOTIFIER LCD-8200 Fire Detection Panel** [pdf] User Manual HBT-Fire-202202221416-LCD8200, LCD-8200, LCD-8200 Fire Detection Panel, Fire Detection Panel

References

- Notifier