Dostmann Electronic LOG100/110/CRYO Set Temperature Data Logger User Manual

Contents

DOSTMANN electronic GmbH

Dostmann Electronic LOG100/110/CRYO Set Temperature Data Logger

Product Information

- Product Name: LOG100/110/CRYO –
- Manufacturer: DOSTMANN electronic
- Model Numbers: LOG100, LOG110, CRYO
- Compliance: ROHS Specifications:
- Temperature Range: – – –
- Relative Humidity Range: 0..99%rF
- Memory: Approximately 60,000 data sets
- Interface: USB
- Storage Temperature: Not specified
- Dimensions: 92 x 55 x 21 mm
- Weight: 95 g – Power Supply: 1 x
- CR2032 3 V battery

Usage Instructions Introduction

- Please read and follow the instructions carefully.
- Do not dispose of old electronic devices and empty batteries in household waste
- Take them to your retail store or appropriate collection sites according to national or local regulations.

Inital Setup:

- Connect the device to a PC using the USB interface.
- Install the software on the PC and start the configuration process following the instructions provided in the software manual.

Display and Buttons:

- The device has an LED display and buttons for operation.
- Pressing the buttons will show different values and settings on the display.
- The display may show minimum, maximum, average values, battery status, and other information.

USB Interface:

- The device can be connected to a PC using the USB interface for programming and data transfer.

Changing Battery:

- When the battery is low, replace it with a new CR2032 3 V battery.
- Follow the instructions provided in the manual for proper battery replacement.
  Note: For detailed instructions on usage and troubleshooting, please refer to the complete user manual provided with the product.

Specifications

	Temperature logger		*Temperature-humidity*
	Log100	*Log Cryo*	*logger Log110*
Internal temperature	-30..+70	-10..+70°C	-30..+70°C
External temperature probe	-50..+125°C	-200..+350°C	-50..+125°C
Relative Humidity	- - -		0..99%rF
Memory	appr. 60.000 Data sets		
Interface	USB		
Working temperature (without display)	-30..+70°C (LOG Cryo: -10..+70°C)		
Storage temperature	-30..+70°C		
Dimensions	92 x 55 x 21 mm		
Weight	95 g		
Power supply	1 x CR2032 3 V		

- After the completed communication with the PC do not forget to plug the rubber cap back into the port. It prevents dirt and water from entering the data logger.
- Use the USB socket to connect the external temperature sensor. Therefore remove the rubber cap from the USB socket. Afterwards connect the external probe by use of the socket. The probe will be registered automatically.
- **Note**: Using the external temperature sensor the instrument loses the splash water protection (IP65).

Rear side of the data logger / battery case

- On the rear side of the data logger you will find the battery case and a printed sticker.

Replacing battery

- To replace the battery please open the battery cover on the rear side. There-fore you have to turn the battery cover 90° to the left. Remove the battery from the instrument and replace with a new battery.
- The “BAT “symbol indicates that the battery needs to be exchanged. The instrument allows app. 24 hours of

further operation after displaying the “BAT“ symbol The battery symbol indicates according to the battery status between 1 to 3 segments.

- If the display indicates only “PF“, the battery is completely exhausted. Please replace the battery immediately. Attention: Please do not dispose of old electronic devices and empty bat-teries in household waste. To protect the environment, take them to your retail store or to appropriate collection sites according to national or local regulations.

Introduction

Dear customer,
thank you very much for purchasing one of our products. Before operating the data logger please read this manual carefully. You will get useful infor-mation for understanding all functions.

General advice

- For cleaning the instrument please do not use an abrasive cleaner only a dry or wet piece of soft cloth.
- Please store the measuring instrument in a dry and clean place.
- Avoid any force like shocks or pressure to the instrument.
- Do not use force to connect the probe or the interface plugs in. The inter-face plug is different from the probe plug.

Before operation

- Before operating the instrument take the instrument out of the packag-ing. Check whether a full battery CR2032 (3 Volt) is already inserted.

Display indication

Display indication after key depression
FS = Factory settings

- After inserting the battery the instrument displays for 10 seconds the actual measurements, afterwards the instrument displays for 30 seconds “FS”, after this the instrument turn off. The same procedure appear after pressing any button.

Logger is recording

Battery (total empty)

Factory settings

LED-Indication and Buzzer

- The two LED’s and the internal buzzer help you to understand all logger information, several status modes and alarm indications.
- LED green:
  The green LED flashes during the logger start and according to the measur-ing interval if the standard settings hasn’t been changed.
- LED red:
  The red LED flashes when Hi- or Lo-Alarm has been achieved.
- Buzzer:
  The Buzzer rings when Hi- or Lo-Alarm has been achieved(if the buzzer is not deactivated). The Buzzer also rings when the configuration has been transferred successful from the PC to the Logger.
- You can activate or deactivate both, LEDs and Buzzer by using the Software DE-LOG-Graph.

USB-Port

- For readout or programming, the data logger must be connected via USB-cable with a PC.
- View from the front: On the left side there is the USB-port. The port is pro-tected by a small white rubber cap. To operate the USB-port please remove the rubber cap.
- H: Measurement 2 displays the measurement in the lower display line. Depending on the logger model, the settings of the internal or the external temperature measurement, average, minimum or maximum measurements will be displayed.
- I: Unit Measurement 2 display the current measuring unit of measurement 2.
- J: MAX-MIN-AVG display the average, minimum or maximum measure- ments.
- K: Status info display the operation mode LOG or STOP. LOG indicates the recording mode and STOP indicates standby mode.
- L: External probe EXT s displayed when an external sensor is connected. In the lower display line the measurement 2 is corresponding with the external sensor.
- M: Lowbat indicates the capacity of the battery.

Note:

- °C = Celsius,°F = Fahrenheit
- %rh = relative humidity, td = dew point temperature

Other display information

- In addition to the above mentioned information, the display also indicates several other information. This information will be displayed depending on the display settings (snooze function) and operation mode:

Display switched off

connected to the PC

Logger configured

Standard settings / **Factory settings**

- Note the following default settings of the data logger before first use. By using the DE-LOG-Graph software, the setting parameter can easily be changed:

1. Description: blank (max. 16 characters)
2. LCD-Snooze mode: ☑
3. LCD-Snooze after Sec.: 10
4. Mode-button active: ☑
5. Alarm settings for temperature: ☑ -30.0°C 70.0°C -40.0°C 150.0°C
   Cryo: -10.0°C 70.0°C -200.0°C 350.0°C
   Alarm settings humidity: ☑ 0.0% 100.0%
6. Alarm delay: □
7. Alarm cumulation: off
8. Alarm reset: ☑
9. Alarm-LED-interval 3 seconds
10. Alarm-LED-blink duration 1 second
11. Alarm-Buzzer-interval 30 seconds
12. Alarm-Buzzer-duration 1 second
13. Temperature unit: °C
14. Start-button active: ☑
15. Start by Reed-contact: □ (by request only)
16. Waiting for manual start: ☑
17. Single use only: ☑
18. Measuring interval: 15 Minutes
19. Stop-button active: ☑
20. Stop by Reed-contact: □ (by request only)
21. Cycle memory: ☑ (if the memory is full the oldest measurement will be overwritten)

☑ = Default

Marking (Log100)

- CE-conformity, EN 12830, EN 13485, Suitability for storage (S) and transportation (T) for food storage and distribution(C), Accuracy classifica-tion 1 (-30..+70°C), according to EN 13486 we recommend a recalibration once per year.

Operation

- For configuring the data logger, please install the Software DE-LOG-Graph on a PC.

USB-Port

- When the Software Installation has been completed please connect the PC with data logger via USB-cable. For detailed information please read the manual of the DE-LOG-Graph-Software.

Panel and display (Fig. 1)

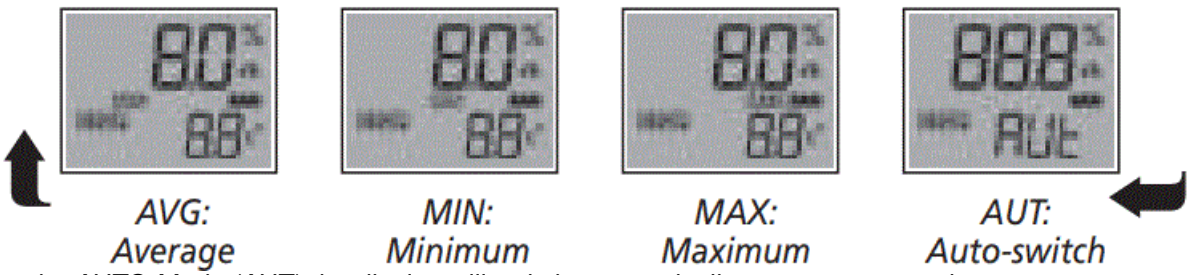
Fig. 1

Log100/110/CRYO has a large display, two LEDs and two buttons.

- A: LCD-display indicate humidity, temperature, external temperature(in case of an external sensor), Low bat-warning, Max-Min-Avg-measurements, status information
- B: Start-Stop-button
- C: Mode-button
- D: LED: green/red
- E: USB-port (with rubber cap)

Button-handling

- On the front panel there are two buttons. Both buttons can be de activated by using the Software DE-LOG-Graph, to prevent unauthorized use.
- **Start-Stop-button:**
  Depending on the setup configuration, you can start or Stop the data log-ger via the mentioned Start-Stop-buttons. You have to press and hold the buttons 3 seconds. When it starts a short acoustic signal and the green LED-will flash and the display indication will switch from STOP to LOG.
- **Mode-button:**
  By pressing the Mode-button you will see on the bottom line the Average (AVG)-, Minimum (MIN)- and Maximum (MAX) temperature of the recorded measurements. If the data logger is not started it will display — instead of AVG, MIN or MAX temperature.

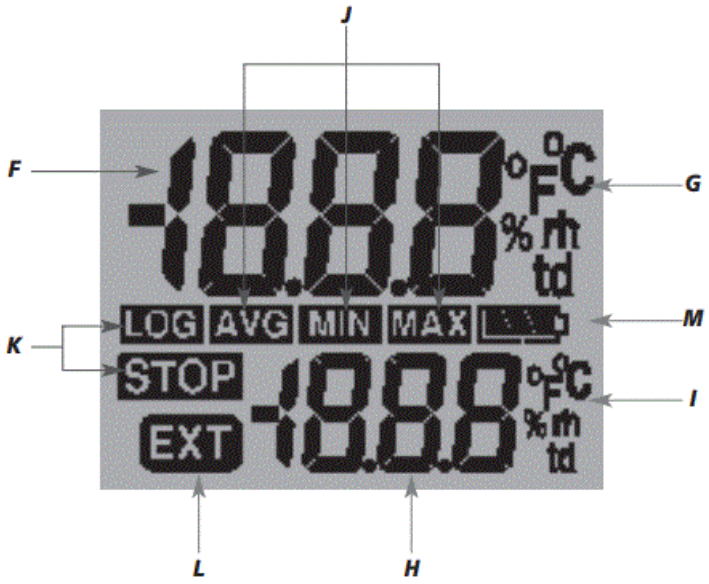


By using the AUTO-Mode (AUT) the display will switch automatically every two seconds.

LOG mode, acoustic alerts can be disabled by pressing mode button for 2 seconds (Display “Bep Off”).

Display segments of LCD (Fig. 2)

Fig. 2



- Besides the two measurements, the large LCD displays several status informa-tion. By using the Software DE-LOG-Graph you are able to switch on or off the display, or to setup an interval how long the display will stay on when no but-ton is pressed (snooze function). By using this function it is possible to prevent it displaying information to unauthorized persons.
- F: Measurement 1 displays the current relative humidity (Log110) or the current temperature (Log100, Log Cryo).
- G: Unit Measurement 1 display the current measuring unit of measurement

Documents / Resources

	Dostmann Electronic LOG100/110/CRYO Set Temperature Data Logger [pdf] User Manual LOG100 110 CRYO Set Temperature Data Logger, LOG100 110 CRYO, Set Temperature Data Logger, Temperature Data Logger, Data Logger, Logger