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Xetron Elog10EH

Xetron Elog10EH Temperature and Humidity Data Logger

Model: Elog10EH | Brand: Xetron

1. INTRODUCTION

The Xetron Elog10EH is a high-precision temperature and humidity data logger designed for reliable environmental monitoring. This device offers unlimited usage, combining measurement data with associated configuration files and calibration certificates. It is capable of direct PDF report generation, providing written data for evaluation without requiring special software for basic reports. Its robust design and broad application spectrum make it ideal for professional use in various fields, including transport, production, food storage, and cold chain logistics.

Key features include an external sensor for accurate readings, a clear LED display for real-time information, configurable alarm thresholds, and IP67 water and splash-proof protection. The device boasts a long battery life, capable of storing up to 32,000 measurement values, with data retention even during battery changes.



Figure 1: The Xetron Elog10EH data logger, showcasing its compact design and external temperature/humidity sensor.

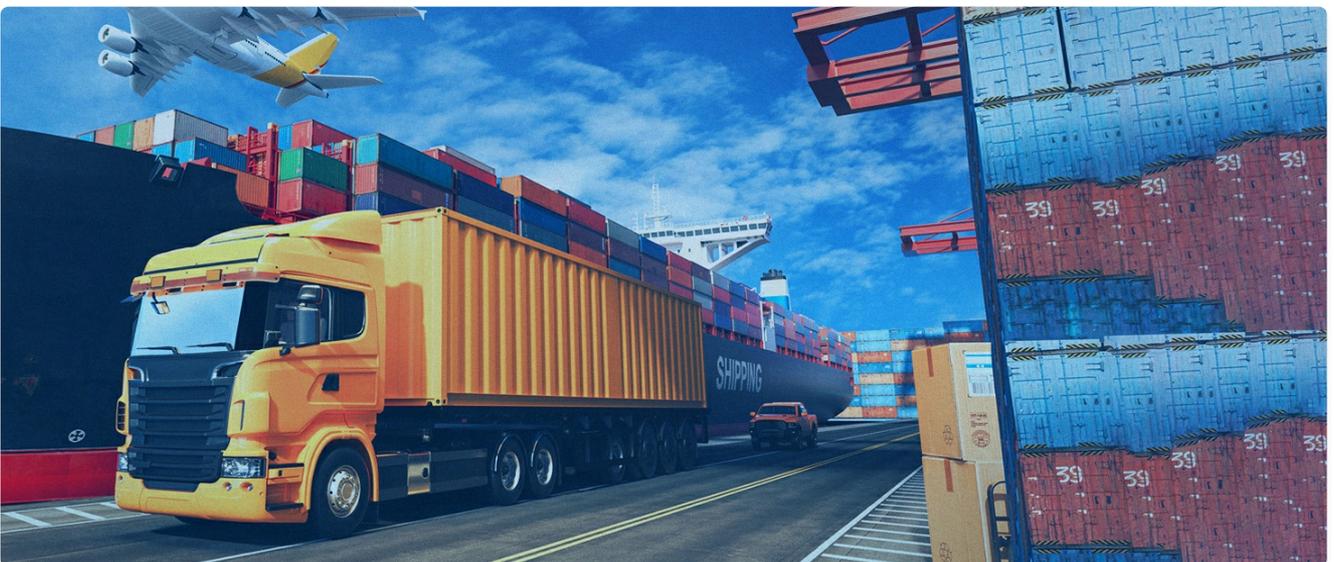


Figure 2: Diverse applications of the Elog10EH data logger, including use in cold storage containers, laboratories, and refrigerated displays.

2. SETUP

2.1 Unboxing

Upon receiving your Xetron Elog10EH, carefully unpack the device. The package should contain the Elog10EH data logger with its integrated external sensor.

2.2 Battery Installation

The Elog10EH uses a CR2450 coin-cell battery. Follow these steps to install or replace the battery:

1. Locate the circular battery cover on the back of the device.
2. Turn the battery cover counter-clockwise to unlock and remove it.
3. Insert a new CR2450 battery with the positive (+) side facing upwards.
4. Place the battery cover back and turn it clockwise to tighten and secure it. Ensure it is tightly sealed to maintain IP67 protection.

Xetron

Die Methode zum Ersetzen der Batterie

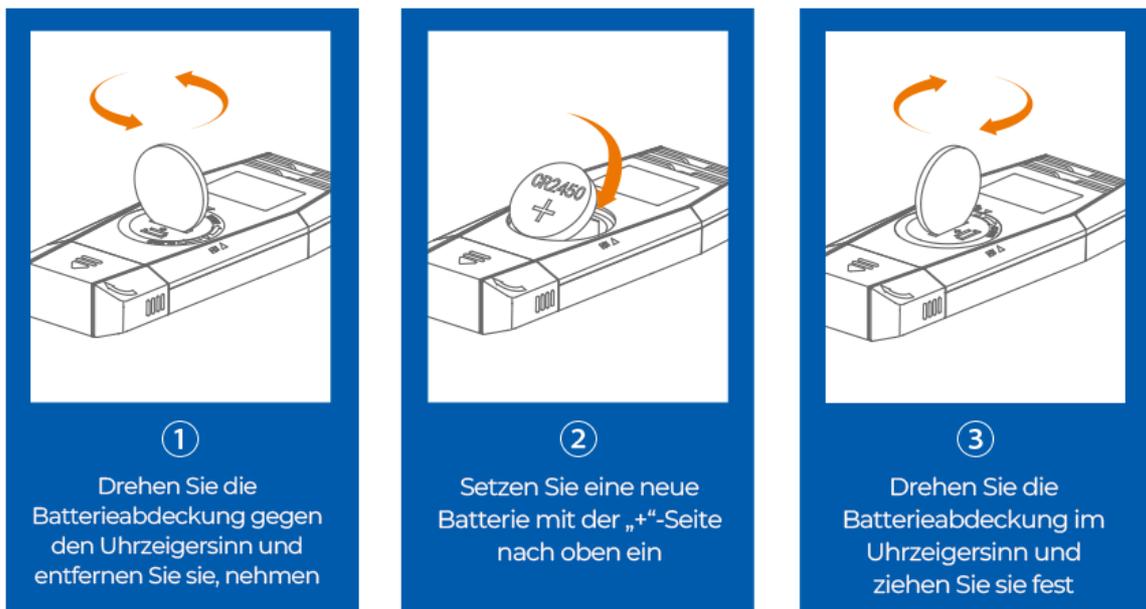


Figure 3: Step-by-step visual guide on how to correctly open the battery cover, insert a new CR2450 battery with the positive side up, and securely close the cover.

2.3 Software Installation and Initial Configuration

While the device can generate basic PDF reports directly, for advanced configuration and data analysis, install the Xetronlog software. This software allows you to:

- Set logging intervals (e.g., 10 seconds to 24 hours).
- Configure alarm thresholds (up to 3 upper and 2 lower temperature limits).
- Adjust time zone settings to your local time.
- Customize alarm types (single, cumulative).
- Access FDA 21 CFR Part 11 compliance modules if required.

Download the Xetronlog software from the official Xetron website. After installation, connect the Elog10EH to your

computer via its integrated USB-A plug. The software will detect the device, allowing you to adjust parameters before starting a new logging session. It is recommended to synchronize the device's time with your local time using the software's Quick Reset function or by saving any altered parameters.

Xetron Diversifizierte Parameteranpassung



Figure 4: The Xetronlog software interface, demonstrating how users can customize logging parameters, alarm thresholds, and view statistical information for the Elog10EH data logger.

3. OPERATING INSTRUCTIONS

3.1 Starting Data Recording

To start a new data recording session, press and hold the 'START' button on the device for approximately 5 seconds until the recording indicator appears on the LED display. Alternatively, you can initiate recording through the Xetronlog software after configuring your desired parameters.

3.2 Stopping Data Recording

To stop an active data recording session, press and hold the 'STOP' button on the device for approximately 5 seconds. Recording can also be stopped via the Xetronlog software when the device is connected to a computer.

3.3 Viewing Data on the Device Display

The Elog10EH features an LED display that provides real-time information. A short press of any button will activate the display or cycle through different screens showing current temperature, humidity, battery level, and alarm status. The display is ideal for quick checks of temperature-sensitive products.



Figure 5: A detailed view of the Elog10EH's LED display, highlighting the function icons, alarm indicators, battery level, temperature/humidity values, date, and time.

3.4 Downloading Data and Generating Reports

Once recording is stopped, you can download the data and generate reports:

1. Connect the Elog10EH to a USB-A port on your computer.
2. The device will appear as a 'Data Logger' drive in your computer's file explorer.
3. A PDF report containing a graph and detailed measurement data will be automatically generated and saved on the device. You can copy this file directly to your computer.
4. For more in-depth analysis, open the Xetronlog software. It will automatically download the data from the logger. Within the software, you can view data as graphs or lists, filter data, export it in various formats (e.g., Excel), and email reports.

Xetron einzigartige Designdetails

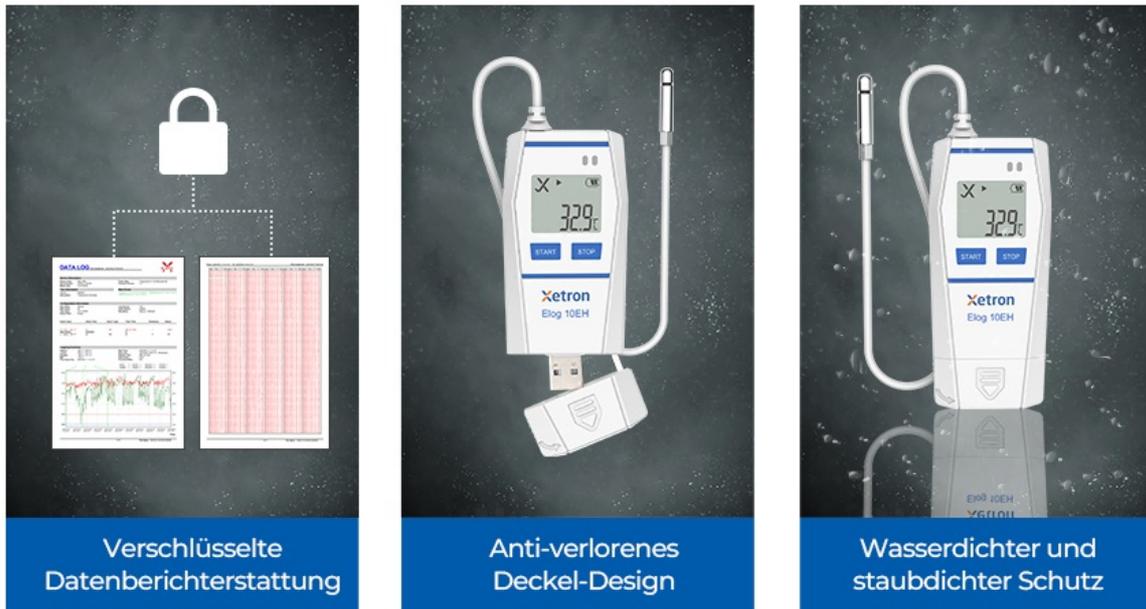


Figure 6: An illustration of the secure, encrypted PDF data reports generated by the Elog10EH, showing graphs and detailed measurement data for analysis.

4. MAINTENANCE

4.1 Battery Replacement

Refer to Section 2.2 for detailed instructions on how to replace the CR2450 battery. Ensure the battery cover is securely fastened after replacement to maintain the device's IP67 rating.

4.2 Cleaning

The Elog10EH is IP67 rated, meaning it is protected against dust and temporary immersion in water. To clean the device, wipe it with a damp cloth. Avoid using abrasive cleaners or solvents that could damage the casing or display. Ensure the USB port cover is securely closed during cleaning.

5. TROUBLESHOOTING

- **Device not starting/displaying:** Check the battery level. Replace the CR2450 battery if it is low or depleted. Ensure the battery is installed correctly with the positive side up.

- **Data not downloading:** Ensure the device is securely plugged into a functional USB-A port. Try a different USB port or cable if available. Verify that the device appears as a 'Data Logger' drive in your computer's file explorer. If using the Xetronlog software, ensure it is running and updated.
- **Incorrect time/date:** Connect the device to your computer and use the Xetronlog software to synchronize the time zone and local time.
- **Inaccurate readings:** Ensure the external sensor is not obstructed and is placed in an area representative of the environment you wish to monitor. If issues persist, the device may require recalibration.
- **Buttons unresponsive:** Ensure the device is not in a locked mode. If the device is frozen, try removing and reinserting the battery to perform a hard reset.

For further assistance, refer to the detailed user manual provided with the Xetronlog software or contact Xetron customer support.

6. SPECIFICATIONS

Feature	Specification
Manufacturer	Xetron
Item Model Number	Elog10EH
Product Dimensions (L x W x H)	13 x 7 x 2 cm
Weight	50 grams
Battery Type	1 x CR2450 (required)
Temperature Range	-30 °C to 70 °C
Temperature Accuracy	±0.3 °C (-20 °C to 40 °C)
Humidity Accuracy	±3% RH (20% RH to 80% RH)
Data Storage Capacity	Up to 32,000 measurement values
Protection Rating	IP67 (Water and splash-proof)
Report Format	Automatic PDF generation

7. WARRANTY INFORMATION

Xetron products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Xetron website. Typically, Xetron offers a limited warranty against defects in materials and workmanship from the date of purchase. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your Xetron Elog10EH data logger, please contact Xetron customer support. You can usually find contact information (email, phone, or support portal) on the official Xetron

website. When contacting support, please have your product model number (Elog10EH) and purchase details ready.