

Xetron XT-Elog20-01

Xetron Elog20 Temperature and Humidity Data Logger User Manual

Model: XT-Elog20-01

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1. INTRODUCTION

The Xetron Elog20 Temperature and Humidity Data Logger is designed for precise monitoring and recording of environmental conditions. It is widely used across all stages of cold chain storage and transportation, ensuring the integrity of temperature-sensitive goods such as pharmaceuticals and food products. This easy-to-use device automatically records measured temperature and humidity data, providing critical information for quality control and compliance.

2. KEY FEATURES

- **Dual Audible and Visual Alarm:** Configure temperature and humidity monitoring ranges via software. The logger emits an audible and visual alarm if values exceed preset limits, providing timely alerts.
- **High Recording Capacity:** Stores up to 16,000 readings, ensuring comprehensive data collection over extended periods.
- **Two High-Precision External Probes:** Equipped with two external probes capable of detecting changes as small as 0.1°C and 0.1%RH.
- **Large Display Screen:** A 2.8-inch screen clearly displays real-time data and operational status.
- **Integrated Magnets:** Two built-in magnets on the back allow for easy attachment to metallic surfaces, such as refrigerator walls. Additional fixing methods include screws and Velcro.
- **Detachable Buffered Probe:** Ensures measurement stability by minimizing the impact of sharp changes or frequent fluctuations in temperature, providing more accurate data for sensitive applications like vaccine storage.
- **Free Software (Xetron Log):** Provides an intuitive interface for setting logging intervals, alarm thresholds, and exporting data in PDF/Excel formats for detailed analysis.

3. SETUP GUIDE

3.1 Unpacking and Initial Inspection

Carefully remove the data logger and its accessories from the packaging. Inspect all components for any signs of damage. Ensure the package contains the Elog20 data logger, external probes, and any included documentation.

3.2 Battery Installation

The device includes one lithium metal battery. Locate the battery compartment on the back of the logger. Open the compartment, insert the battery according to the polarity markings, and close the cover securely.

3.3 Connecting External Probes

Connect the two external probes to the designated ports on the side or bottom of the Elog20 data logger. Ensure a firm connection. The probes are designed to be detachable and buffered for stable measurements.

Xetron

With Detachable Buffered Probe

Ensure that the measurement process is not affected by sharp changes or frequent fluctuations in temperature, it truly reflects the current vaccine temperature changes, and the measurement is more scientific.



Image: Xetron Elog20 data logger showing the connection point for the detachable buffered probe.

Audible and Visual Alarm

The recorder will remind you by sending out an buzzer and light alarm if temp and humidity value exceeds the preset.



Image: Xetron Elog20 data logger with its external sensor extended into a refrigerating box, demonstrating remote temperature monitoring.

3.4 Software Installation and Initial Configuration

Download and install the "Xetron Log" software from the official Xetron website or the provided installation media. Connect the data logger to your computer via USB. Use the software to:

- Set the desired logging interval (how frequently data is recorded).
- Define temperature and humidity alarm thresholds (upper and lower limits).
- Configure time zone and date settings.
- Select measurement units (e.g., Celsius/Fahrenheit, %RH).



Free Software Provided - Xetron Log

- Easy to use and efficient
- Multi-format export data
- FDA management
- Multi-chart comparative analysis
- Encryption service

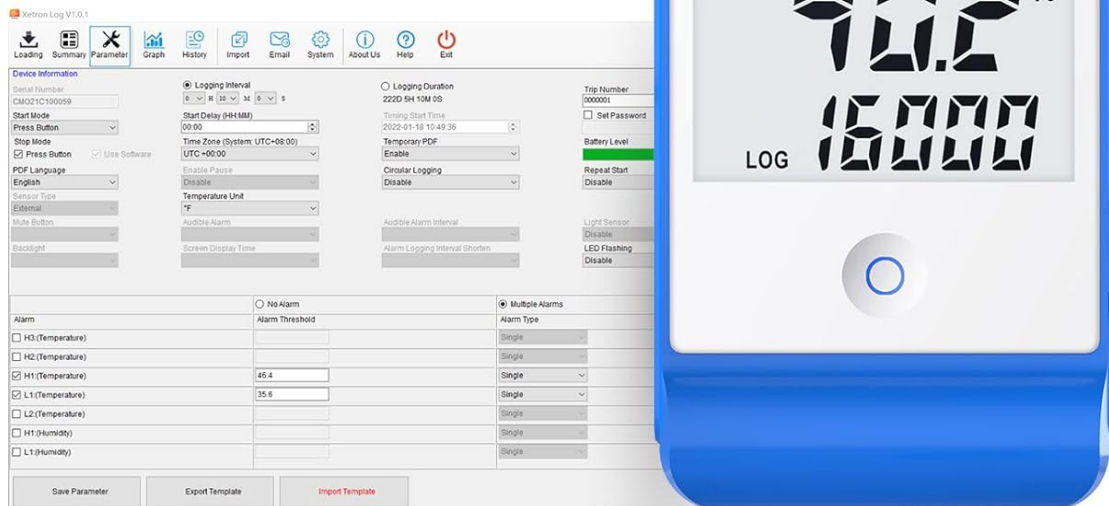


Image: The Xetron Elog20 data logger shown alongside a computer screen displaying the Xetron Log software, highlighting its data management and configuration capabilities.

4. OPERATING INSTRUCTIONS

4.1 Starting Data Logging

After configuring the settings via software, disconnect the logger from the computer. Press and hold the start button (usually indicated on the device) until the logging indicator light confirms recording has begun. Place the logger with its external probes in the environment to be monitored.

4.2 Monitoring Data on Display

The 2.8-inch large screen continuously displays real-time temperature and humidity readings, battery status, and logging status. This allows for quick visual checks without needing to connect to a computer.

Xetron 2.8" Large screen

Easy to check running status and real-time data of the logger



Image: A detailed view of the Xetron Elog20's large 2.8-inch display, showing current temperature and humidity values, along with logging status.

4.3 Understanding Alarms

If the monitored temperature or humidity exceeds the preset alarm thresholds, the Elog20 will activate its audible buzzer and visual LED indicators. Address the environmental conditions promptly to prevent damage to stored items. The alarm will cease once conditions return to within the acceptable range or if manually acknowledged/reset via software.



6.56 Feet External Sensor

Simply put the probe into the environment to be tested, and read data without opening the freezer door.



Image: The Xetron Elog20 data logger displaying an active alarm, indicated by a speaker icon and radiating sound waves, signifying an out-of-range condition.

4.4 Stopping Data Logging and Data Download

To stop logging, press and hold the stop button (if available) or connect the logger to your computer and use the "Xetron Log" software to stop the session. Once logging is stopped, connect the device to your computer. Open the software to download the recorded data. The software allows for multi-format export, including PDF and Excel, for easy analysis and reporting.

5. MAINTENANCE

5.1 Cleaning the Device

Wipe the exterior of the data logger with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the probes are clean and free from debris for accurate readings.

5.2 Battery Replacement

When the battery indicator shows low power, replace the lithium metal battery promptly to ensure continuous operation and data integrity. Follow the instructions in section 3.2 for safe battery replacement.

5.3 Calibration

The Xetron Elog20 data logger is precisely calibrated by the factory. For re-calibration or verification services, please contact Xetron customer support. Do not attempt to self-calibrate without proper equipment and instructions, as this may affect accuracy.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery; incorrect battery installation.	Replace the battery. Ensure battery is inserted with correct polarity.
No data logging.	Logging not initiated; device memory full; incorrect settings.	Ensure logging is started (refer to section 4.1). Download data and clear memory. Verify logging interval and other settings via software.
Inaccurate readings.	Dirty or damaged probes; improper probe placement; device malfunction.	Clean probes. Ensure probes are correctly positioned in the environment. Contact support if issues persist after cleaning and repositioning.
Alarms not triggering.	Alarm thresholds not set or set incorrectly; alarm function disabled.	Verify alarm settings and ensure they are enabled in the Xetron Log software.
Cannot connect to PC/Software.	USB cable issue; driver not installed; software not running correctly.	Try a different USB port or cable. Reinstall Xetron Log software and drivers. Ensure the device is properly connected.

7. SPECIFICATIONS

Feature	Detail
Model Number	XT-Elog20-01
Manufacturer	Xetron
Dimensions (L x W x H)	16 x 10 x 2.5 cm
Weight	200 grams
Battery Type	1 Lithium metal (included)
Temperature Range	-40°C to +85°C (-40°F to 185°F)
Humidity Range	10% to 99% RH
Temperature Accuracy	±0.9°F (-40°F to 185°F)
Humidity Accuracy	±3% RH (-20% to 90% RH)
Recording Capacity	16,000 points

Feature	Detail
Display	2.8-inch large screen
Fixing Method	Wall mount (magnets, screw, Velcro)

Xetron High-Precision Sensor

Precisely Calibrated By Factory



Temperature accuracy:

$\pm 0.9^{\circ}\text{F}$ (-40°F to 185°F)

Humidity accuracy:

$\pm 3\% \text{RH}$ ($-20\% - 90\% \text{RH}$)



Image: The Xetron Elog20 data logger highlighting its high-precision sensor and factory-calibrated accuracy for temperature and humidity measurements.

Xetron With Built-in Magnets

Three fixing methods: magnet, screw and Velcro



Image: The Xetron Elog20 data logger demonstrating its built-in magnets for easy attachment to a refrigerator door, illustrating one of its three fixing methods.

8. WARRANTY AND SUPPORT

For any questions, technical assistance, or warranty inquiries regarding your Xetron Elog20 Temperature and Humidity Data Logger, please contact Xetron customer support. Refer to the product packaging or the official Xetron website for contact information.

