# Xetron

# User Manual

## Elog 10 Series



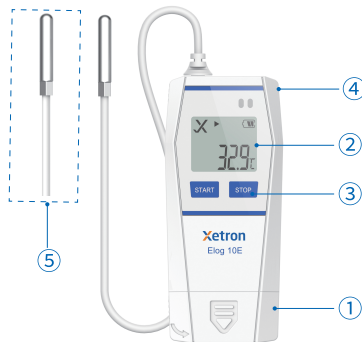| | |
|---|---|
| ① USB Port | ④ Internal Sensor |
| ② LCD Screen | ⑤ External Sensor |
| ③ Button | |

## Overview

Elog 10 Series data loggers can be widely used in each stage of the storage and cold chain logistics, such as refrigerated containers/trucks, cooler bags, cooling cabinets, medical cabinets, freezers, and laboratories.

The loggers feature an LCD screen and two buttons design. They support various start and stop modes, multiple threshold settings, two storage modes (stop when full & cyclic record) and PDF report automatically generated for users to check data without using software.

## Model Selection

| Model | Elog 10 | Elog 10E | Elog 10H | Elog 10 EH |
|---|---|---|---|---|
| Type | Internal Temperature | External Temperature | Internal Temperature and Humidity | External Temperature and Humidity |
| Measurement Range | -30℃ ~ 70℃ -22°F ~ 158°F | -40℃ ~ 85℃ -40°F ~ 185°F | -30℃ ~ 70℃ -22°F ~ 158°F 0%RH ~ 100%RH | -40℃ ~ 85℃ -40°F ~ 185°F 0%RH ~ 100%RH |
| Sensor | Digital Temperature Sensor | | Digital Temperature and Humidity Sensor | |
| Accuracy | Temperature: ±0.5℃ (-20℃ ~ 40℃); ±0.9°F (-4°F ~ 104°F) ±1.0℃ (-50℃ ~ 85℃); ±1.8°F (-58°F ~ 185°F) Humidity: ±3%RH (25℃: 20%RH ~ 80%RH), ±5%RH (others) | | | |

## Specifications

**Resolution:** Temperature: 0.1℃/0.1°F; Humidity: 0.1%RH

**Memory:** 32,000 points (MAX)

**Logging Interval:** 10 seconds ~ 24 hours

**Start Mode:** Press button or use software

**Stop Mode:** Press button, use software, or auto stop

**Alarm Threshold:** Configurable;
Temperature: up to 3 high limits and 2 low limits;
Humidity: 1 high limit and 1 low limit

**Alarm Type:** Single, cumulative

**Alarm Delay:** 10 seconds ~ 24 hours

**Data Interface:** USB port

**Report Type:** PDF data report

**Battery:** 3.0V disposable lithium battery CR2450

**Battery Life:** 2 years for storage and use (25℃/77°F:10 minutes logging interval and can last 180 days)

**External probe length:** 1.2m

**Dimensions:** 97mmx43mmx12.5mm (LxWxH)

## Operation

### 1. Install Software
Please download and install the free Xetronlog software (macOS and Windows) from www.xetron1996.com.

### 2. Configure Parameters
First connect the data logger to the computer USB port, wait until the USB icon shows on the LCD, then configure via:
**Xetronlog software:**
- If you do not need to change the default parameters (in Appendix); please click **Quick Reset** under **Summary** menu to synchronize local time before usage;
- If you need to change the parameters, please click the **Parameter** menu, enter your preferred values, and click the **Save Parameter** button to complete the configuration.

> **Warning! For first time user or after battery replacement:**
> To avoid time or time zone errors, please make sure you click **Quick Reset** or **Save Parameter** before usage to sync and configure your local time into the logger.

### 3. Start Logging
**Press Button:**
Press and hold the left button for 5 seconds until the ▶ icon shows on the LCD, indicating the logger starts logging.
**Auto Start:**
Immediate Start: The logger starts logging after plugged out from the computer.

Timed Start: The logger starts counting after removed from the computer, and will start logging automatically after the set date/time.

> Note: If the ▶ icon keeps flashing, it means the logger configured with start delay; it will start logging after the set delay time elapses.

### 4. Mark Events
Double click the left button to mark current temperature and time, up to 10 groups. After events marked, the LCD will display ⟨Mark⟩, currently marked groups and ⟨ΣLK⟩.

### 5. Stop Logging
**Press Button*:** Press and hold the right button for 5 seconds until the ■ icon shows on the LCD, indicating the logger stops logging.
**Auto Stop**:** When the recorded points reach the maximum memory, the logger will stop automatically.
**Use Software:** Open XetronLog software, click **Summary** menu, and **Stop Logging** button.

> Note: *Stop via **Press Button** is the default. If set as disabled, this function will be invalid, please open Xetronlog software and click **Stop Logging** button to stop it.
> **The **Auto Stop** function will be disabled automatically if you enabled the **Circular Logging**.

### 6. Download Data
Connect the data logger to your computer USB port, wait until the U icon shows on the LCD, then download data:
**Without Xetronlog Software:** Simply find and open the removable storage device **Xetronlog**, save the auto generated PDF report to your computer for viewing.
**With Xetronlog software:** After the logger auto-upload its data to the Xetronlog software, click **Export** and select your preferred file format to export. If data failed to auto-upload, please manually click **Download** and then repeat above operation.

### 7. Re-use the Logger
To reuse a logger, please stopped it first.Then connect it to your computer and use Xetronlog software to save or export the data.
Next, reconfigure the logger by repeating the operations in **2. Configure Parameters*.** After finished, follow **3. Start Logging** to restart the logger for new logging.

# Xetron

Official website: www.xetron1996.com

Email: support@xetron1996.com

Company: Jiangsu Jingchuang Electronics Co.,Ltd

Address: Address： No. 21, Zhujiang East Road, The Third Industrial Park, High-tech Industrial Development Zone, Xuzhou, Jiangsu, China

**8. Repeat Start:**

To restart the stopped logger, you may press and hold the left button to start logging quickly without reconfiguration.
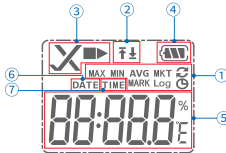
*Note: Please backup data before restart by repeating 6. Download Data . Without Xetronlog Software.*

## Status Indication

### 1. Buttons

| Operations | Function |
|---|---|
| Press and hold the left button for 5s | Start logging |
| Press and hold the right button for 5s | Stop logging |
| Short press the left button | Check/Switch interfaces |
| Short press the right button | Back to main menu |
| Double click the left button | Mark events (under logging status) |

### 2. LCD Screen



| | | |
|---|---|---|
| ① Function | ⑤ Temperature/Humidity Value | |
| ② High/Low limit alarm | ⑥ Date | |
| ③ Working status | ⑦ Time | |
| ④ Battery Level | | |

### 3. LCD Interface

| Meaning | Display |
|---|---|
| 1. Timed start  Delay start | 80:38 |
| 2. Not start | 26.8 |
| 3. Started | 24.8 |
| 4. Recorded points | 20.008 |
| 5. Maximum temperature | 30.8 |
| 6. Minimum temperature | 30.8 |
| 7. MKT value | 30.8 |
| 8. Average temperature | 30.8 |
| 9. Maximum humidity | 80.8 |
| 10. Minimum humidity | 20.8 |

| Meaning | Display |
|---|---|
| 11. Average humidity | 20.8 |
| 12. Current date & time | 08-08  08:08 |
| 13. Sensor error | Err |
| 14. PDF generation progress | PdF80 |
| 15. Marked | SUC 8 |
| 16. USB communicating | USb |
| 17. Reconfigure parameters | RE -CF |

## Battery Replacement

1. Turn the battery cover counter clockwise and remove it, take out the old battery.

2. Place a new battery inside with "+" side up.

3. Turn the battery cover clockwise and tighten it.

| Item | Model Number | Request | Reason |
|---|---|---|---|
| 1 | | ☐ Refund  ☐ Exchange | |
| 2 | | ☐ Refund  ☐ Exchange | |

*Your E-mail Address:* _____

*Your Contact Number:* _____

*Shipping Address:* _____
_____
_____

## What's Included

◆ Temperature (Humidity) Data Logger x 1
◆ User Manual x 1
◆ Certificate of Calibration x 1

Xetron warranty covers any malfunction caused by the product quality, transportation, or manufacturing process under normal use for a period of one year from the purchased date. During the warranty period, any failures due to the reasons mentioned will be repaired or replaced free of charges.

**The warranty does not apply if any of the following conditions is met:**

1.Damage resulting from accidents, misuse, abuse, alteration, tampering or failure of the purchaser to follow normal operating procedures outlined;
2.Defects or damage due to spillage of food/liquids , or wrong usage of electrical supply & voltage;
3.Damage, losses, defects or malfunction as a result of natural events such as fires, floods also animal or insect infestations;
4.Scratches & damage to the outer surface areas and externally exposed parts that are caused by the user's poor handling;
5.If any part or parts of the unit are replaced with a part or parts not supplied or approved by us or the unit has been dismantled or repaired by any person other than a Xetron authorized technician;
6.Use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installation, repairs, external wiring, connectors not supplied and/or authorized by Xetron, or which damage this product or result in service problems.

**Cautions:**

1.If the equipment is not used for a long time, it should be stored with packaging in a dry and cool environment;
2.The user is not alwed to make any unauthorized changes to this equipment. Any unauthorized changes may affect the accuracy of the equipment, or even damage it;
3.Before start the logger, please short press the button to confirm that the RECORD and STATUS indicator lights flash once at the same time;
4.Even if the battery is used out, the record data of the Elog 10 Series product can still be restored;
5.The product adopts disposable lithium batteries, please do not directly heat or charge them;
6.Please use it under the measurement range of the product;
7. After the product is turned on, it cannot be configured and started again;
8. Please recycle or dispose of discarded products in accordance with local regulation.

## Default Parameter Configurations

| Parameter | Default |
|---|---|
| Logging Interval | 10 min |
| Start Mode | Press Button |
| Start Delay | / |
| Stop Mode - Press Button | Enable |
| Temporary PDF | Enable |
| Temperature unit | °F |
| Time Zone | UTC+0:00 |
| Repeat Start | Disable |
| Circular Logging | Disable |
| Alarm Mode | Multiple Alarms |
| Alarm Type | Single |
| Alarm delay | / |
| High Temperature Limit H3 | / |
| High Temperature Limit H2 | / |
| High Temperature Limit H1 | 46.4°F |
| Low Temperature Limit L1 | 35.6°F |
| Low Temperature Limit L2 | / |
| Calibration Temperature | 32°F |
| High Humidity Limit | / |
| Low Humidity Limit | / |
| Calibration Humidity | / |