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Elitech Tlog 10EH

Elitech Tlog 10EH Digital Temperature Data Logger User Manual

Brand: Elitech | Model: Tlog 10EH

1. INTRODUCTION

The Elitech Tlog 10EH is a reusable digital temperature data logger designed for reliable and accurate monitoring of temperature and humidity. It features an external temperature and humidity probe, a USB port for direct PDF report generation, and a memory capacity of 32,000 data points. This device is suitable for various applications including life science, food cold chain, and industrial fields, complying with FDA 21 CFR Part 11 standards.

2. PRODUCT OVERVIEW

The Tlog 10EH data logger is equipped with an external sensor for precise measurements and a clear display for data visualization. Its robust design includes an anti-touch button to prevent accidental operation during transport.

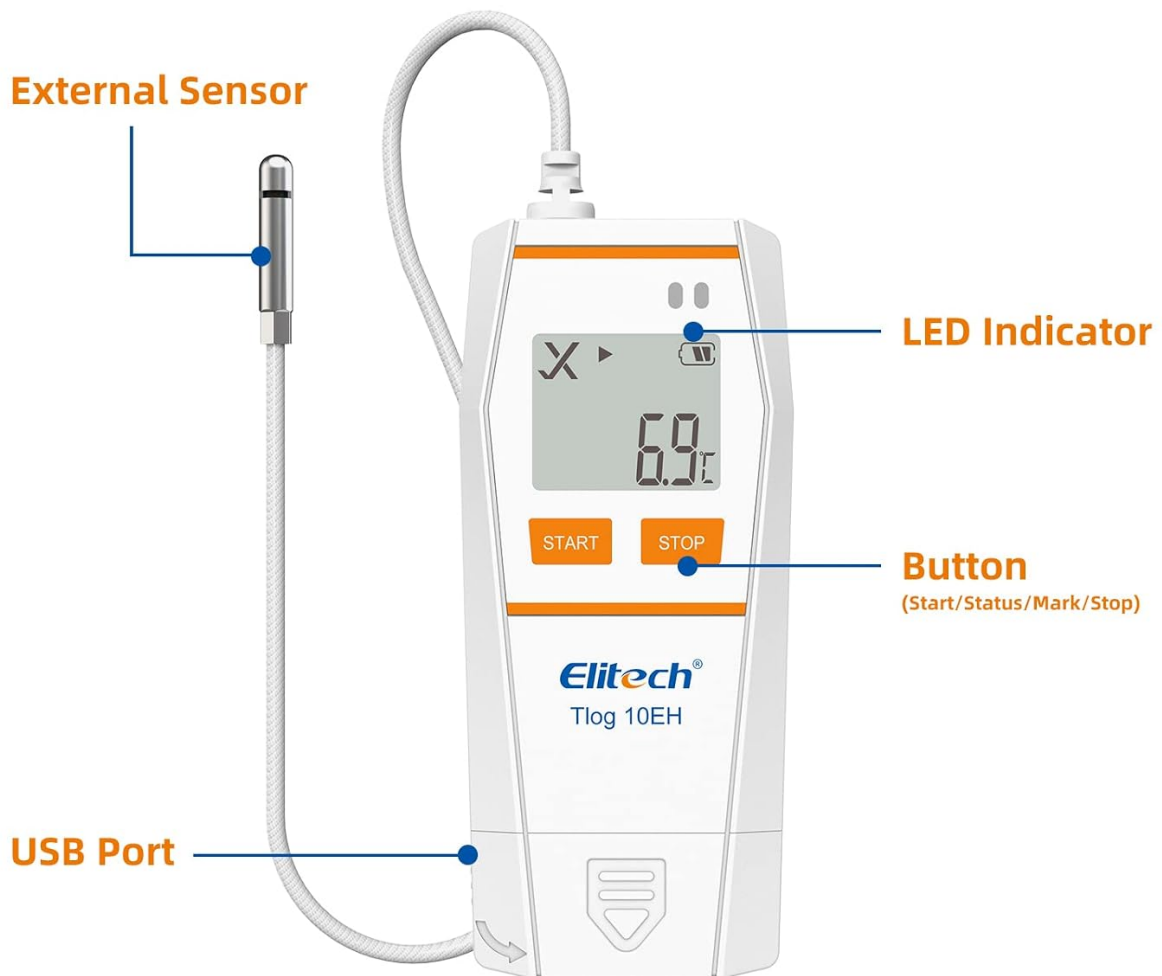


Figure 1: Elitech Tlog 10EH Data Logger with key components labeled, including the external sensor, LED indicator, control buttons, and USB port.

Key Features:

- **Automatic PDF Report:** Generates PDF reports with embedded data directly, requiring no additional software for basic data access.
- **Data Visualization:** Displays current temperature, maximum/minimum values, current date, and record points on screen. Supports Fahrenheit/Celsius switching.
- **Unique Button Design:** Features an anti-touch button to prevent unintended activation or deactivation.
- **Parameter Settable:** Allows customization of temperature unit, alarm range, and logging interval via Elitechlog software.
- **High Memory Capacity:** Stores up to 32,000 data points.
- **IP65 Waterproof:** Provides protection against dust and water splashes.

3. SETUP

3.1. Battery Installation

Before initial use, install the battery. Use a coin to counter-clockwise open the battery cover on the back of the device. Insert the Lithium Metal battery (CR2032) with the positive pole facing you (indicated by a plus sign on the battery). Close the cover by turning it clockwise.

Video 1: This video demonstrates the battery installation process for a similar Elitech data logger (RC-5+), which is applicable to the Tlog 10EH model. It shows how to open the battery compartment, insert the battery, and close it securely.

3.2. Software Installation (Elitechlog)

To configure advanced parameters and manage data, download the Elitechlog software from the official Elitech website. The software is available for both Windows and Mac operating systems. Follow the on-screen prompts to complete the installation.

Video 2: This video provides a guide on installing and using the Elitechlog software, which is essential for advanced configuration and data management of the Tlog 10EH data logger.

3.3. Connecting to Computer & Parameter Setting

Connect the Tlog 10EH to your computer via the USB port. Open the Elitechlog software. Navigate to the 'Parameter' or 'Settings' tab. Here, you can set the logging interval, start mode (immediate, button press, or timed start), temperature unit (°C/°F), alarm limits (upper and lower), and enable/disable features like button stop, temporary PDF generation, and circular logging. Remember to save your parameters after making changes.

Video 3: This video demonstrates how to connect an Elitech RC-4Pro data logger (similar to Tlog 10EH) to a computer and configure its parameters using the Elitechlog software.

4. OPERATING INSTRUCTIONS

4.1. Starting and Stopping Logging

To start logging, press and hold the 'Start' button (left play button) for 5 seconds until the play sign appears on the screen. To stop logging, press and hold the 'Stop' button (right pause button) for 5 seconds until the stop sign appears.

Video 4: This video illustrates the basic operation of an Elitech RC-5 data logger (similar to Tlog 10EH), including how to start and stop logging, and navigate through the display menus.

4.2. Data Visualization on Screen

Briefly press the 'Start' button to cycle through the display menus. You can view the current temperature, the number of logged readings, current time, current date, maximum temperature recorded, and minimum temperature recorded.

4.3. Automatic PDF Report Generation

Once logging is complete, simply plug the Tlog 10EH into a USB port on your computer. The device will automatically generate a PDF report containing all logged data, including a graph and summary. No special software is required to view this report.

Automatic Report Generation



USB plug-and-play



Direct export of PDF files



Figure 2: The Tlog 10EH simplifies data retrieval with its USB plug-and-play functionality, allowing direct export of PDF reports without additional software.

5. SPECIFICATIONS

Specification	Value
Model Name	Tlog 10EH
Temperature Range	-30°C to 70°C (-22°F to 158°F)
Humidity Range	0% RH to 100% RH
Temperature Accuracy	±0.5°C (-20°C to 40°C), ±1.0°C (others)
Humidity Accuracy	±3% RH (25°C, 20% to 80% RH), ±5% RH (others)
Memory Capacity	32,000 points

Specification	Value
Connectivity Technology	USB
Display Type	Digital
Power Source	1 Lithium Metal battery (included)
Waterproof Rating	IP65
Compliance	FDA 21 CFR Part 11 standard
Included Components	Digital Temperature Data Logger with External Temperature & Humidity Probe

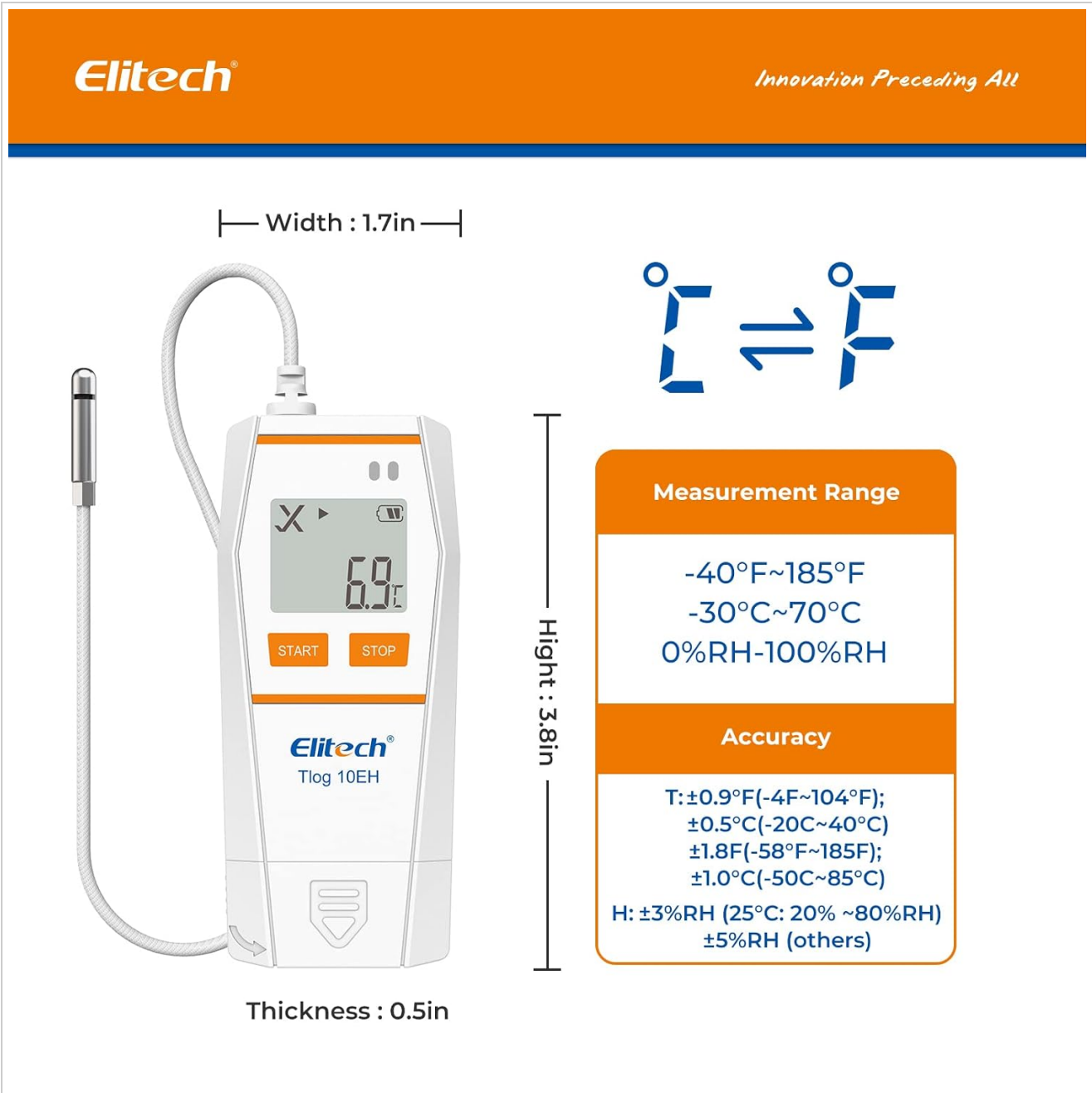


Figure 3: Detailed measurement range and accuracy specifications for the Tlog 10EH data logger.

6. MAINTENANCE

6.1. Cleaning

Wipe the device clean with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water (beyond its IP65 rating for splashes).

6.2. Battery Replacement

The device uses a replaceable Lithium Metal battery (CR2032). When the battery indicator on the screen is low, replace the battery following the installation steps in Section 3.1.

7. TROUBLESHOOTING

7.1. Device Not Starting/Displaying

- Ensure the battery is correctly installed and has sufficient charge.
- Press the button briefly to activate the screen.

7.2. Data Not Logging

- Verify that logging has been initiated by pressing and holding the 'Start' button for 5 seconds. The play icon should be visible.
- Check the device's memory capacity. If full, enable circular logging via software or download data and reset.

7.3. PDF Report Not Generating

- Ensure the device is properly inserted into a functional USB port.
- Check if the computer recognizes the USB device.

8. APPLICATIONS

The Elitech Tlog 10EH is versatile and can be used in a wide range of scenarios requiring precise temperature and humidity monitoring:

- **Life Science:** Monitoring sensitive biological samples and laboratory environments.
- **Food Cold Chain:** Ensuring food safety during storage and transportation in cold boxes, refrigerated trucks, and cold chain containers.
- **Industrial Fields:** Monitoring environmental conditions in warehouses, distribution centers, and other industrial settings.



Figure 4: Examples of diverse applications for the Tlog 10EH data logger in cold chain management.

9. COMPLIANCE

The Elitech Tlog 10EH complies with the FDA 21 CFR Part 11 standard, ensuring data integrity, security, and audit trails for regulated industries.

10. WARRANTY & SUPPORT

For warranty information, technical support, or further assistance, please visit the official Elitech website or contact Elitech customer service. Keep your purchase receipt for warranty claims.

Elitech Official Website: www.elitechstore.com

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

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