

INSTRUKART LogEt 1 TH

INSTRUKART Elitech LogEt 1 TH Temperature and Humidity Data Logger Instruction Manual

Model: LogEt 1 TH

1. INTRODUCTION

This manual provides essential instructions for the proper setup, operation, maintenance, and troubleshooting of the INSTRUKART Elitech LogEt 1 TH Single Use Temperature and Humidity Data Logger. This device is designed for monitoring temperature and humidity sensitive products during storage and transportation, particularly in pharmaceutical and cold chain applications. It is WHO approved and generates automatic PDF reports.

2. PRODUCT FEATURES

- WHO Approved Data Logger.
- Large LCD screen with powerful indicators.
- Capable of Thermal Mapping and Area Mapping.
- Up to 5 alarm thresholds can be configured.
- Integrated USB connector for direct data access without software or cables.
- Automatically generates PDF reports.
- High measurement accuracy: ± 0.5 °C.
- IP67 Protection Grade for durability.

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Quality Certifications

WHO: World Health Organization PQS Approved



Figure 2.2: The device holds multiple quality certifications, including WHO PQS, FDA, FC, CE, RoHS, and TÜV.

3. COMPONENTS AND PARTS IDENTIFICATION

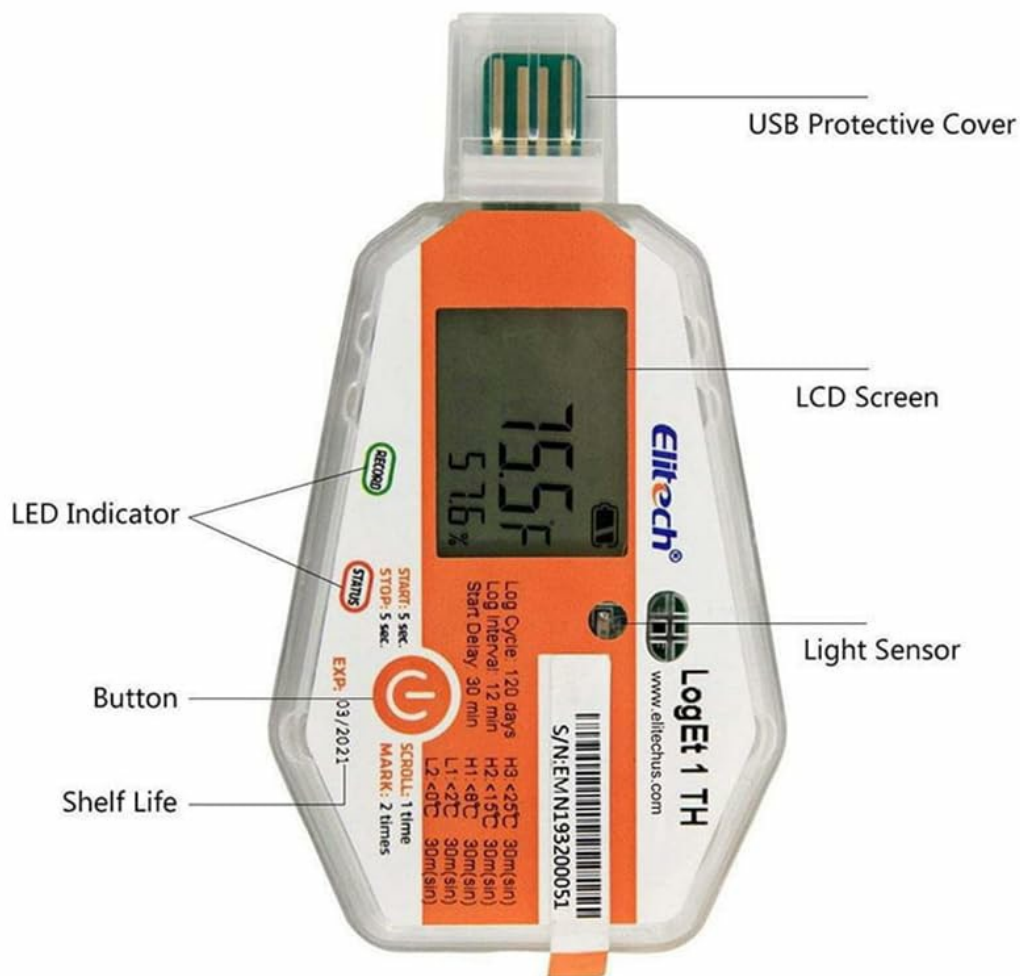


Figure 3.1: Front view of the LogEt 1 TH Data Logger with key components labeled.

- **USB Protective Cover:** Protects the USB connector.
- **LCD Screen:** Displays real-time temperature, humidity, and device status.
- **LED Indicator:** Provides visual status alerts (e.g., running, alarm).
- **Button:** Used for starting/stopping logging and checking status.
- **Light Sensor:** Detects ambient light conditions.
- **Shelf Life:** Indicates the expiration date of the device.

4. SETUP

The LogEt 1 TH data logger is designed for single-use applications and comes pre-configured for immediate deployment. However, some settings can be adjusted if necessary.

4.1 Initial Configuration (Optional)

While the device is ready for use out of the box, you can customize logging parameters such as logging interval,

alarm thresholds, and start delay using the ElitechLog Data Management Software or the Online Configuration Web tool. This requires connecting the device to a computer via its USB port.

1. Remove the USB protective cover.
2. Plug the data logger into a computer's USB port.
3. Download and install the ElitechLog Data Management Software (Windows V4.0.0 or newer, Mac V1.0.0 or newer) from the Elitech website, or access the Online Configuration Web tool.
4. Follow the software/web interface instructions to adjust desired settings.
5. Safely eject the device and replace the USB protective cover.

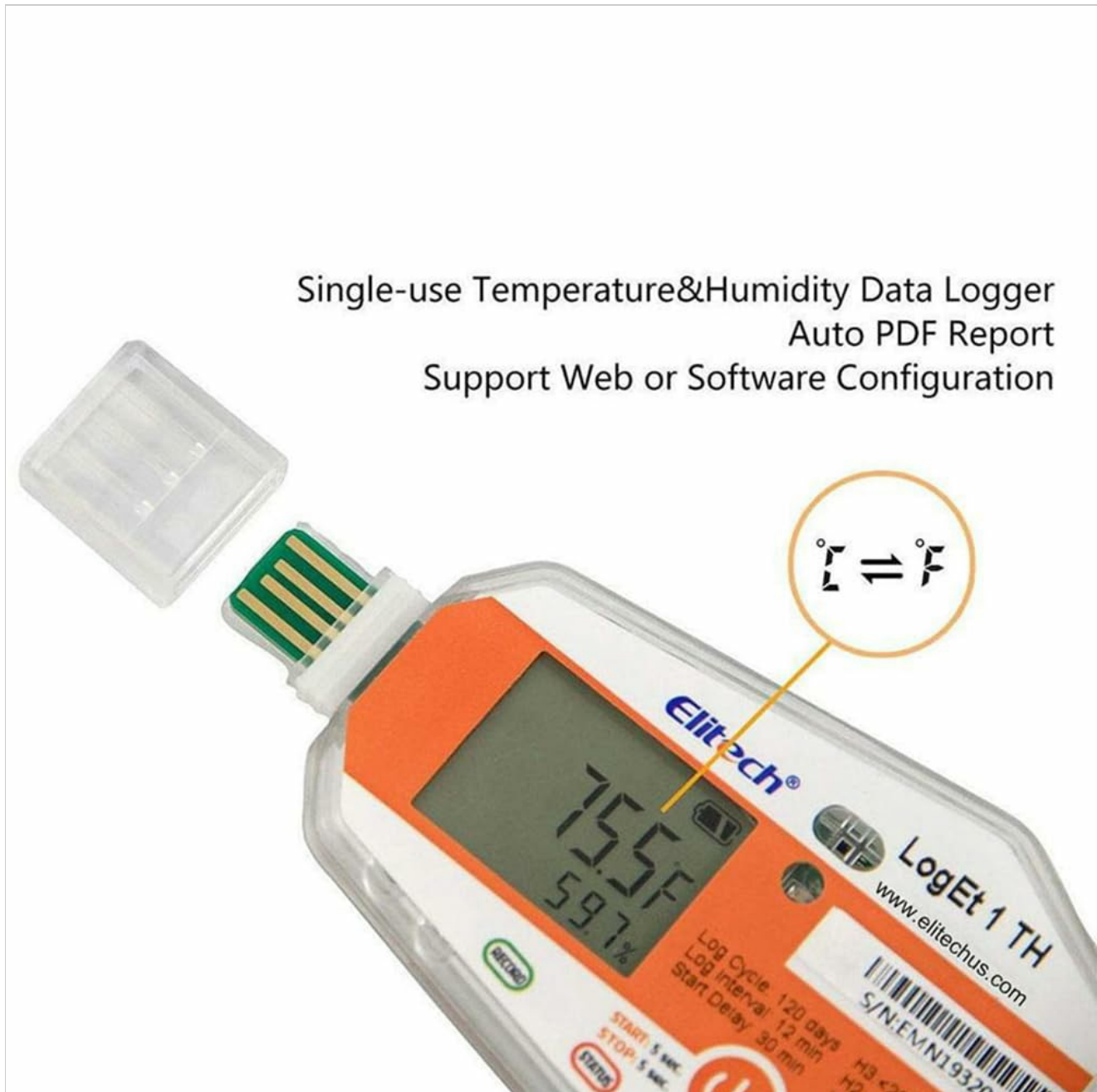


Figure 4.1: The USB connector is revealed by removing the protective cover, allowing connection to a computer for configuration or data download.

5. OPERATING INSTRUCTIONS

5.1 Starting the Data Logger

The data logger can be started in two ways:

- **Button Start:** Press and hold the button on the device for approximately 3 seconds until the "REC" indicator flashes, confirming logging has begun.
- **Software Start:** If configured via software, the logger may start automatically upon connection or through a command from the ElitechLog software.

Once started, the device will begin recording temperature and humidity data at the pre-set logging interval (default: 12 minutes) after any configured start delay.

5.2 Monitoring Status

The LCD screen displays current temperature and humidity readings. The LED indicators provide quick status checks:

- **Green LED:** Indicates normal operation or no alarm.
- **Red LED:** Indicates an alarm condition (temperature or humidity outside set thresholds).

5.3 Stopping the Data Logger

The data logger can be stopped in three ways:

- **Button Stop:** Press and hold the button for approximately 3 seconds until the "STOP" indicator flashes, confirming logging has ceased.
- **Software Stop:** Connect the device to a computer and use the ElitechLog software to issue a stop command.
- **Stop When Full:** The logger will automatically stop recording once its memory capacity (16,000 points) is reached.

After stopping, the device will automatically generate a PDF report upon connection to a computer.

6. DATA RETRIEVAL AND REPORT GENERATION

To retrieve recorded data and generate a report:

1. Ensure the data logger has stopped recording (see Section 5.3).
2. Remove the USB protective cover.
3. Plug the data logger into a computer's USB port.
4. The device will automatically appear as a removable drive. A PDF report containing the logged data will be automatically generated and saved to this drive.
5. You can open and view the PDF report directly. For more detailed analysis or to reconfigure the device, use the ElitechLog Data Management Software.
6. Safely eject the device from your computer and replace the USB protective cover.

7. MAINTENANCE

The Elitech LogEt 1 TH data logger requires minimal maintenance.

- **Cleaning:** Wipe the exterior of the device with a clean, damp cloth. Do not use abrasive cleaners or immerse the device in liquids (beyond its IP67 rating).
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery:** The device is battery-powered. As a single-use logger, battery replacement is not intended. Observe

the shelf life indicated on the device.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not start logging.	Button not held long enough; device already started/stopped; battery depleted.	Ensure button is held for 3 seconds. Check LCD for status. If battery is depleted or shelf life expired, the device may not function.
No PDF report generated after connecting to PC.	Device not stopped; USB connection issue; computer driver issue.	Ensure logging is stopped. Try a different USB port. Check computer's device manager for driver issues. Restart computer.
Inaccurate readings.	Sensor obstruction; device placed in extreme conditions; device malfunction.	Ensure sensors are clear. Operate within specified temperature/humidity ranges. If issues persist, contact support.
LED indicator shows red (alarm).	Temperature or humidity exceeded set thresholds.	This indicates a recorded excursion. Review the PDF report for details. No action is required on the device itself unless you need to reconfigure alarm thresholds for future use.

9. SPECIFICATIONS

Measurement Range	Temperature: -30°C to 70°C (-22°F to 158°F)
Temperature Accuracy	±0.5°C (-20°C to 40°C); ±1.0°C (other range)
Temperature Resolution	0.1°C
Humidity Range	0 to 100% RH
Humidity Accuracy	±3% RH (20 to 80% RH, under 25°C); ±5% RH (Other range, under 25°C)
Humidity Resolution	0.1% RH
Data Capacity	Max. 16,000 points
Logging Interval	Configurable (default 12 min)
Startup Mode	Button or Software
Stop Mode	Button, Software, or Stop when Full
Report Generation	Automatic PDF report
Connection Interface	USB 2.0, A-Type
Certifications	EN12830, CE, RoHS, WHO Approved
Protection Grade	IP67

Power Source	Battery Powered (non-replaceable for single-use)
Outer Material	Acrylonitrile Butadiene Styrene

10. WARRANTY INFORMATION

Specific warranty terms for the Elitech LogEt 1 TH data logger are provided by the manufacturer, Elitech, or the authorized distributor, INSTRUKART. Please refer to the documentation included with your purchase or contact the seller for detailed warranty information. Protection plans may also be available for purchase separately.

11. SUPPORT

For technical assistance, product inquiries, or support regarding the Elitech LogEt 1 TH data logger, please contact INSTRUKART, your authorized distributor. You may also visit the official Elitech website for software downloads and additional resources.

- **Manufacturer:** Elitech
- **Brand/Distributor:** INSTRUKART
- **Software:** ElitechLog Data Management Software (available for Windows and Mac)
- **Online Configuration:** Via Elitech's official website.