Elitech Loget 260-TH

Elitech Loget 260-TH 4G Real-time Temperature Humidity Data Logger User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of the Elitech Loget 260-TH 4G Real-time Temperature Humidity Data Logger. This device is designed for monitoring temperature, humidity, light, shock, and location in various cold chain applications, providing real-time data transmission via 4G network.

1.1. Package Contents

- Elitech Loget 260-TH Data Logger (Reusable version)
- Built-in 4G SIM Card
- User Manual
- USB Type-C Cable

2. PRODUCT OVERVIEW

The Loget 260-TH is a multi-sensor data logger equipped with a display and control buttons for easy interaction. It features internal sensors for temperature, humidity, light, and shock, along with LBS (Location-Based Service) for location tracking.
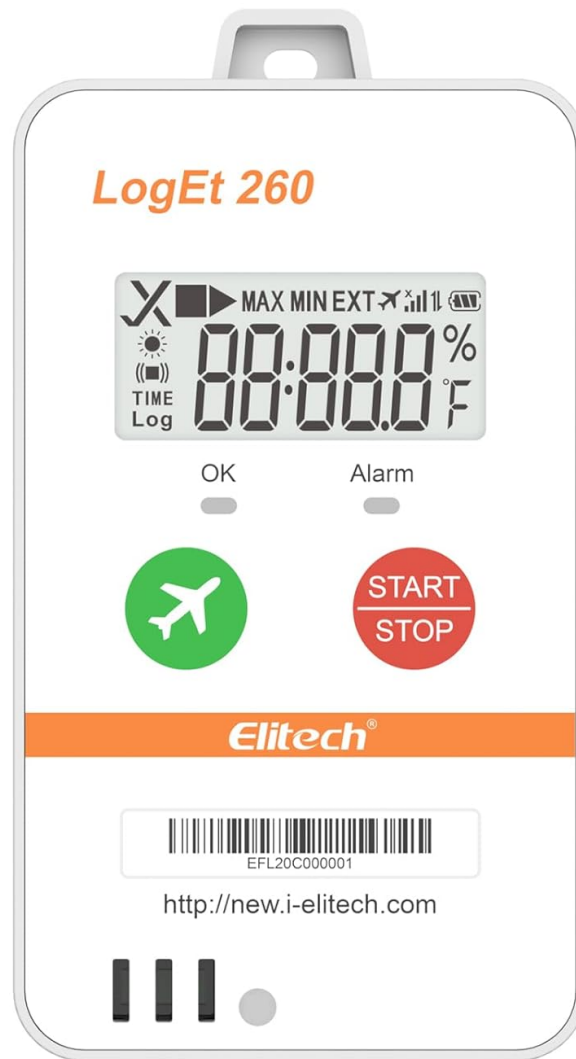
Figure 2.1: Elitech Loget 260-TH Data Logger with numbered components.

2.1. Component Identification

1. **LCD Display Screen:** Shows current readings, status, and alerts.
2. **LED Indicator Light:** Provides visual status updates (e.g., OK, Alarm).
3. **Activate/Airplane Mode Button:** Used to activate the device or toggle airplane mode.
4. **Internal Sensor:** Measures ambient temperature and humidity.
5. **Back Hanging Hole:** For mounting or securing the device.
6. **Start/Stop Button:** Initiates or terminates data logging.
7. **Serial Number:** Unique identifier for the device.
8. **Light Sensor:** Detects ambient light levels.
9. **Data Transmission Indicator:** Shows network activity and data upload status.

2.2. Key Features

- **Double Data Security:** Features offline storage for up to 100,000 points to prevent data loss and supports shadow data recording for continuous monitoring even if logging is mistakenly stopped.
- **Multi-Source Sensing:** Monitors internal temperature (-30~60℃), humidity (0~100%RH), light (0~52000Lux), shock (0g~16g), and location (LBS). Optional external sensors for pH value or CO2 are

available separately.

- **Remote Monitoring via APP/Web:** Real-time data is uploaded to the Elitech iCold Cloud platform via a built-in 4G SIM card. Upload intervals are configurable from 1 minute to 24 hours.
- **Comprehensive Alarm System:** Cloud-based alarms can be received via Elitech iCold APP, SMS, Email, or the web platform. The device also provides local sound, screen, and indicator light alarms for offline events.
- **Auto Flight Mode & Electronic Fence:** Complies with Do160 for aviation safety. Flight mode can be activated manually, scheduled, or automatically via an electronic fence (custom area activation).
- **iCold Platform:** A cloud-based platform compatible with RCW series products for real-time monitoring, automatic alerts, online data analysis, and management. It complies with FDA CFR 21 Part 11 requirements and supports iOS and Android apps.

3. SETUP

3.1. Initial Charging

Before first use, connect the Loget 260-TH to a power source using the provided USB Type-C cable and a standard USB charger (not included) to ensure the internal battery is fully charged. The battery indicator on the LCD will show charging status.

3.2. Device Activation and Platform Connection

1. **Power On:** Press and hold the 'Start/Stop' button for a few seconds until the device powers on and the LCD screen illuminates.
2. **Network Connection:** The built-in 4G SIM card will automatically attempt to connect to the network. The signal strength indicator on the LCD will show connection status.
3. **iCold Account Setup:**

   - Download the Elitech iCold APP from your mobile app store or visit the Elitech iCold web platform (http://new.i-elitech.com).
   - Register for a new account or log in if you already have one.
   - Add your Loget 260-TH device to your account using the serial number found on the device (refer to Figure 2.1, item 7).

4. **Configuration:** Once added, you can configure logging parameters such as upload interval, alarm thresholds, and sensor settings via the iCold platform.

4. OPERATING INSTRUCTIONS

4.1. Starting and Stopping Logging

- **Start Logging:** Press and hold the 'Start/Stop' button until the logging indicator appears on the LCD. The device will begin recording data according to the configured settings.
- **Stop Logging:** Press and hold the 'Start/Stop' button again until the logging indicator disappears. Data logging will cease.

4.2. Airplane Mode

Airplane mode disables all wireless communication (4G) to comply with aviation regulations. Data logging continues internally.

Figure 4.1: Loget 260-TH illustrating Flight Mode activation methods.

- **Manual Activation:** Press the 'Activate/Airplane Mode' button (Figure 2.1, item 3) to toggle airplane mode on or off.
- **Scheduled Activation:** Configure specific times for airplane mode activation via the iCold platform.
- **Electronic Fence Activation:** Set up a custom geographical area in the iCold platform. The device will automatically enter airplane mode upon entering this area and exit upon leaving.

4.3. Data Access and Alarms

Figure 4.2: Loget 260-TH data displayed on the Elitech iCold mobile application.

- **Real-time Data:** View live temperature, humidity, light, shock, and location data on the Elitech iCold APP or web platform.
- **Historical Data:** Access and analyze historical data, generate reports (PDF/CSV), and track routes through the iCold platform.
- **Alarm Notifications:** Receive instant alerts via APP, SMS, or Email when configured parameters exceed set thresholds. The device also provides local visual and audible alarms.

Figure 4.3: Elitech iCold platform demonstrating PDF and CSV report export functionality.

5. MAINTENANCE

5.1. Battery Care

- Recharge the device regularly, especially if it will be stored for an extended period.
- Avoid exposing the device to extreme temperatures during charging or storage, as this can degrade battery life.

5.2. Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as these can damage the casing or sensors.

5.3. Storage

- Store the device in a cool, dry place away from direct sunlight.
- Ensure the battery is partially charged (around 50%) before long-term storage.

6. TROUBLESHOOTING

6.1. Device Not Powering On

- Ensure the device is fully charged. Connect it to a power source using the USB Type-C cable.
- Verify that the 'Start/Stop' button is pressed and held for the required duration.

6.2. No 4G Network Connection

- Check the signal strength indicator on the LCD. If weak, move to an area with better network coverage.
- Ensure airplane mode is not active.
- Contact Elitech support if the issue persists, as the built-in SIM card may require troubleshooting.

6.3. Data Not Uploading to iCold Platform

- Confirm the device has a stable 4G connection.
- Verify that the device is correctly added and configured in your iCold account.
- Check the upload interval settings in the iCold platform.

6.4. Inaccurate Readings

- Ensure the sensors are not obstructed or exposed to direct heat/cold sources that do not reflect the ambient environment.
- Allow the device to stabilize in a new environment for a few minutes before taking critical readings.
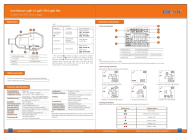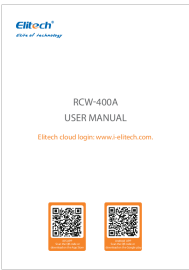
7. SPECIFICATIONS

Parameter	Value
Model Number	US-LogEt260-TH-10PACK
Temperature Range (Internal)	-30°C to 60°C (-22°F to 140°F)
Humidity Range (Internal)	0% to 100% RH
Light Sensor Range	0 to 52000 Lux
Shock Sensor Range	0g to 16g
Location Tracking	LBS (Location-Based Service)
Data Storage Capacity	100,000 points (offline)
Connectivity	4G (Built-in SIM Card)
Upload Interval	Configurable (1 minute to 24 hours)
Battery Type	Lithium Ion (included)
Interface	USB Type-C
Compliance	Do160 (Aviation Safety), FDA CFR 21 Part 11

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Elitech Technology Inc. directly. Refer to the official Elitech website or the contact information provided with your purchase for the most up-to-date support details.

Elitech iCold Platform: http://new.i-elitech.com

Related Documents - Loget 260-TH

	Elitech LogEt 8 Series Data Logger User Manual - Temperature and Humidity Monitoring Comprehensive user manual for the Elitech LogEt 8 Series data loggers, detailing specifications, operation, installation, and troubleshooting for temperature and humidity monitoring in cold chain logistics.
	Elitech LogEt 5 Series User Manual: Temperature and Humidity Data Loggers Comprehensive user manual for the Elitech LogEt 5 Series temperature and humidity data loggers. Covers overview, model selection, specifications, operation, status indication, battery replacement, and default configurations.
	Elitech LogEt 1 Series User Manual: Temperature and Humidity Data Loggers Comprehensive user manual for the Elitech LogEt 1 series of single-use data loggers, covering LogEt 1 (temperature), LogEt 1TH (temperature-humidity), and LogEt 1 Bio (high accuracy temperature). Includes specifications, operation, status indication, and warnings.
	Elitech LogEt 1 Series Single-Use PDF Data Logger User Manual User manual for the Elitech LogEt 1, LogEt 1TH, and LogEt 1Bio single-use PDF data loggers, covering appearance, technical specifications, indication instructions, and operation.
	Elitech LogEt 5 Series Data Logger Specifications and User Manual Comprehensive specifications, features, and operating instructions for the Elitech LogEt 5 series of temperature and humidity data loggers, designed for cold chain monitoring.
	Elitech RCW-400A User Manual: Temperature and Humidity Data Logger Comprehensive user manual for the Elitech RCW-400A, a 4-channel temperature and humidity data logger with GSM and cloud connectivity. Learn about features, specifications, installation, and operation.