

Elitech GSP-6-PTE-US

Elitech GSP-6-PTE Ultra Low Digital Temperature Data Logger User Manual

Model: GSP-6-PTE-US

Brand: Elitech

1. INTRODUCTION

The Elitech GSP-6-PTE Ultra Low Digital Temperature Data Logger is a high-precision device designed for monitoring temperature and humidity, particularly suitable for medical refrigerators, vaccine storage, and cold chain management. It meets current CDC / VFC requirements and additional recommendations for vaccine storage and monitoring, and is FDA 21 CFR Part 11 Compliant. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your data logger.



2. PRODUCT OVERVIEW

The GSP-6-PTE data logger features a large LCD screen for clear value visibility, a high-precision external probe, and dual power options (battery and USB). Its robust design ensures reliable performance in demanding environments.

Key Features:

- **Vaccine Storage Compliance:** Designed to meet CDC / VFC requirements and FDA 21 CFR Part 11.
- **Easy Installation:** Built-in magnet for direct attachment to refrigerators. Separable probe eliminates the need for pre-cooling after device movement.
- **High Precision Probe:** Accurately senses small temperature changes with a wide measurement range (-121°F to 302°F) and humidity (10%~99%RH).
- **Dual Power:** Operates on battery or USB power.
- **Value Visibility:** Current temperature, maximum, and minimum values are easily viewable on the large LCD screen.
- **Large Capacity Data Storage:** Stores up to 16,000 data points, allowing continuous recording for extended periods.



Figure 2: GSP-6-PTE Component Diagram

3. SETUP

3.1 Unpacking and Initial Inspection

Upon receiving your Elitech GSP-6-PTE, carefully unpack all components and inspect for any damage. The package should include:

- Elitech GSP-6-PTE Data Logger
- External Sensor Probe
- Calibration Certificate

- User Manual (this document)

3.2 Powering the Device

The device can be powered by its internal lithium metal battery (included) or via a USB connection.

- **Battery Power:** The device comes with a pre-installed battery. Ensure it is properly seated.
- **USB Power:** Connect the device to a USB port using a standard USB cable. This can also be used to power the device when the battery is low or for continuous operation.



Figure 3: Dual Power (Battery & USB)

3.3 Connecting the External Probe

The GSP-6-PTE utilizes an external probe for temperature and humidity measurement. Ensure the probe is securely connected to the device's designated port. If the screen displays "Err", it indicates the probe is not properly connected.

Your browser does not support the video tag.

Video 1: Demonstrates connecting the probe and navigating the display. If "Err" appears, ensure the probe is properly connected.

2M External Probe

Refrigerator outer wall



Separate host and probe to meet diverse usage need and scenarios.

Inside the refrigerator



Figure 4: External Probe Placement

3.4 Software Installation (Elitechlog)

To fully utilize the data logging capabilities, including data export and advanced settings, install the Elitechlog software on your computer (Windows or Mac OS). The software is typically provided on a mini-CD or can be downloaded from the Elitech official website.

- Connect the data logger to your computer via USB.
- Follow the on-screen instructions to install the Elitechlog software.
- Once installed, you can configure logging intervals, alarm limits, and export data.

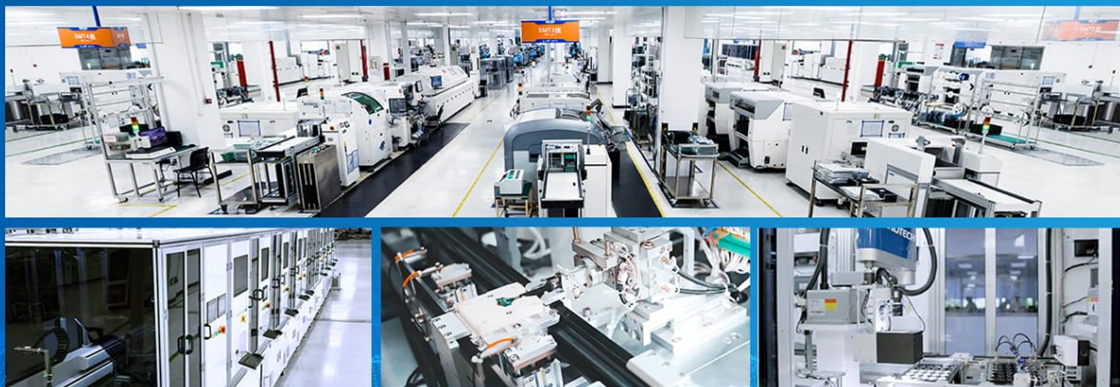


Figure 5: Exporting Data via Elitechlog Software

4. OPERATING INSTRUCTIONS

4.1 Display Navigation

The large LCD screen provides real-time data and various logged values. Press the main button on the device to cycle through different display modes:

- **Main Interface:** Displays current temperature and humidity, along with the number of logging points.
- **Max Value:** Shows the maximum recorded temperature and humidity, along with the time it occurred.
- **Min Value:** Shows the minimum recorded temperature and humidity, along with the date it occurred.
- **Average Value:** Displays the average temperature and humidity over the logging period.
- **Upper Alarm Limit:** Shows the configured upper temperature and humidity alarm thresholds.
- **Lower Alarm Limit:** Shows the configured lower temperature and humidity alarm thresholds.



Figure 6: Large Screen Display

4.2 Starting and Stopping Logging

Logging can be started and stopped via the Elitechlog software. Refer to the software's user guide for detailed instructions on setting logging intervals (e.g., 10 seconds to 24 hours) and starting/stopping data collection.

4.3 Data Export and Analysis

Once data has been collected, connect the data logger to your computer and use the Elitechlog software to export the data. The software allows you to:

- Query and store data.
- Generate chart comparisons for multiple devices.
- Switch between Celsius and Fahrenheit temperature units.
- Set audible and indicator alarm ranges.
- Export data graphs and tables in formats like PDF and Excel.
- Utilize email backup features.

5. MAINTENANCE

5.1 Battery Replacement

The GSP-6-PTE uses a Lithium Metal battery. When the battery indicator on the display shows low power, replace the battery to ensure continuous operation and data integrity. Refer to the device's specific battery compartment for replacement instructions.

5.2 Cleaning and Storage

Clean the device and probe with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Store the data logger in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

5.3 Probe Care

Handle the external probe with care. Avoid bending or kinking the cable excessively. Ensure the probe tip remains clean for accurate readings. The probe is IP64 waterproof grade, but avoid prolonged submersion.

6. TROUBLESHOOTING

6.1 "Err" Displayed on Screen

If the device displays "Err" for temperature or humidity, it indicates that the external probe is not properly connected or is faulty. Ensure the probe's jack is fully inserted into the device's port. If the issue persists after re-connecting, the probe may need replacement.

6.2 Device Not Responding

If the device is unresponsive, check the battery level. Connect the device to a USB power source to see if it powers on. If it still does not respond, try replacing the battery.

6.3 Data Not Exporting

Ensure the Elitechlog software is correctly installed and the data logger is properly connected to the computer via USB. Verify that the USB drivers are installed. Try restarting both the device and the software. Consult the Elitechlog software's help section for specific connectivity issues.

6.4 Inaccurate Readings

If you suspect inaccurate readings, ensure the probe is clean and positioned correctly in the environment being monitored. Compare readings with a known calibrated thermometer. The Elitechlog software may offer calibration adjustment options if minor discrepancies are noted.

7. SPECIFICATIONS

Feature	Detail
Model Number	GSP-6-PTE-US
Brand	Elitech

Feature	Detail
Temperature Measurement Range	-121°F to 302°F (-85°C to 150°C)
Humidity Measurement Range	10%~99%RH
Temperature Accuracy	±0.5°C
Data Storage Capacity	16,000 points (Max)
Record Interval	10 seconds to 24 hours (configurable)
Power Source	1 Lithium Metal battery (included), USB Power
Mounting Type	Surface Mount (with built-in magnet)
Package Dimensions	6.65 x 4.53 x 3.23 inches
Item Weight	11.68 ounces
First Available Date	October 15, 2021

8. WARRANTY AND SUPPORT

Elitech provides comprehensive customer support for its products. For warranty information, technical assistance, or further inquiries, please visit the official Elitech website or contact their customer service department. You can find more information and support resources at the [Elitech Store on Amazon](#).

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ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question