Elitech GSP-8

Elitech GSP-8 Digital Temperature Humidity Data Logger Instruction Manual

Model: GSP-8

INTRODUCTION

The Elitech GSP-8 is a multi-use digital temperature and humidity data logger designed for precise monitoring. It features both an internal temperature sensor and an external temperature-humidity sensor probe, allowing for versatile applications in various environments such as medical refrigerators, vaccine storage, and general cold chain management. This device can record up to 100,000 temperature points and 100,000 humidity points, automatically generating PDF reports without requiring additional software. Its large LCD screen provides clear readings and indicators for alarms, minimum/maximum values, and average values. The GSP-8 is equipped with a rechargeable battery, offering extended operation.

Figure 1: Elitech GSP-8 Digital Temperature Humidity Data Logger.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present:

- GSP-8 Temperature & Humidity Data Logger (with pre-installed 18650 lithium battery)
- Internal Temperature Sensor
- External Temperature-Humidity Sensor Probe
- Micro USB Cable
- User Manual
- Calibration Certificate

SETUP

1. Initial Activation

The GSP-8 data logger comes with a pre-installed 18650 lithium battery. Before first use, ensure the insulator strip is removed from the battery compartment to activate the device. The device will power on automatically.
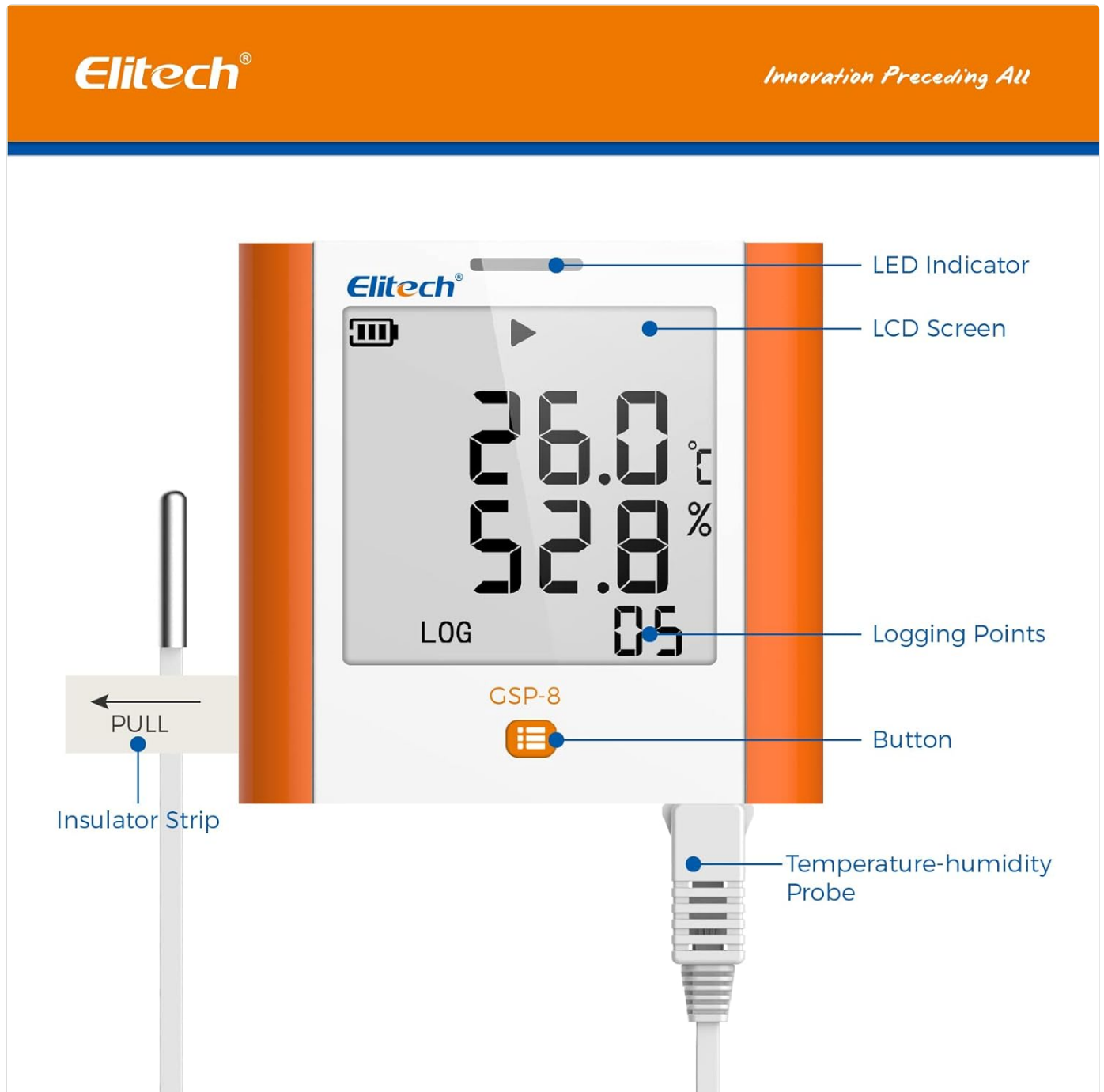

Figure 2: Device components, including the insulator strip to be pulled for battery activation.

2. Sensor Connection

Connect the external temperature-humidity sensor probe to the designated port on the device if external measurements are required. The internal sensor operates automatically.

3. Wall Mounting

The GSP-8 data logger can be wall-mounted for stable placement. Use appropriate screws and anchors (not included) with the integrated mounting holes on the back of the device.

Figure 3: Diagram illustrating the wall mounting feature of the GSP-8.

OPERATING INSTRUCTIONS

1. Starting Data Logging

To begin recording data, press and hold the main button on the device for approximately 5 seconds. A solid triangle icon will appear on the LCD screen, indicating that logging has started.

2. Viewing Data on LCD

Press the main menu button to cycle through different display modes on the LCD. You can view the total recorded points, minimum, maximum, and average temperature and humidity values, as well as alarm thresholds, current date, and time.

3. Stopping Data Logging

To stop data logging, press and hold the main button on the device for approximately 5 seconds until the solid triangle icon disappears from the LCD screen.

4. Data Export and Software Usage

The Elitech GSP-8 data logger can automatically generate PDF reports. For advanced settings and data analysis, use the ElitechLogWin software.

1. **Connect to Computer:** Connect the device to your computer using the provided Micro USB cable. Ensure a small computer icon appears on the logger's display, indicating a successful connection.

Figure 4: Connecting the GSP-8 to a computer for data export.

2. **Automatic PDF Report:** Once connected, a PDF report containing the recorded data will be automatically generated and saved to the device's internal storage, accessible via your computer.

3. **Software Download:** For customized parameters and detailed data analysis, download the ElitechLogWin software from the official Elitech website.

4. **Import Data:** In the software, click "Download" to import data from the device.

5. **Synchronize Time:** To use default parameters and synchronize the logger's time with your local time, navigate to the "Summary" page in the software and click "Quick Reset".

6. **Customize Parameters:** If you wish to adjust logging parameters, go to the "Parameter" section in the software. Here you can:

- Select the start mode (immediate or scheduled).

- Set the logging interval.

- Enable "Circular Logging" to continuously replace the oldest data when memory is full.

- Enable "Repeat Start" to allow restarting the device for a new recording by pressing the button for 5 seconds.

- Choose the preferred temperature unit (Fahrenheit or Celsius).

- Set the local time zone to sync the logger's date and time.

- Set PDF language and password for reports.

- Select screen display time and enable/disable backlight.

- Set alarm thresholds for temperature and humidity. If readings fall outside this range, a note will appear on the device and in the report.

7. **Save Settings:** After configuring parameters, confirm your settings and click "Save Parameter" to apply them to the device.

8. **View and Export Graph Data:** Go to the "Graph" page in the software to view and export the recorded data in a graphical format.

5. Operation Guide Video

Your browser does not support the video tag.

Video 1: Elitech GSP-8 Data Logger Operation Guide. This video provides a visual walkthrough of the device's features and software usage.

MAINTENANCE

1. Battery Charging

The GSP-8 features a rechargeable lithium battery. Connect the device to a computer or a standard USB charger using the provided Micro USB cable to charge the battery. A full charge can provide power for up to 2 years, depending on usage and logging interval settings.

2. Cleaning

To maintain optimal performance, regularly clean the device and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the unit.

TROUBLESHOOTING

If you encounter issues with your Elitech GSP-8 data logger, consider the following common solutions:

- **Device Not Powering On:** Ensure the insulator strip has been completely removed from the battery compartment. If the device still does not power on, connect it to a power source using the USB cable to check if the battery requires charging.

- **External Probe Not Reading:** Verify that the external temperature-humidity sensor probe is securely connected to the device's port. Inspect the probe cable for any visible damage.

- **Data Export Issues:** Ensure the USB cable is properly connected to both the device and the computer. Check that the computer recognizes the device. If using the software, ensure it is the latest version and compatible with your operating system (Windows/macOS).

- **Inaccurate Readings:** Ensure sensors are not obstructed and are placed in an environment suitable for accurate measurement. Refer to the specifications for the operating range.

- **Software Compatibility:** If experiencing issues with the software on macOS or Windows, ensure your system meets the software requirements and that any necessary security permissions are granted for the application to run.

SPECIFICATIONS

Feature	Detail
Model Number	GSP-8
Product Dimensions	7.99 x 2.05 x 10.47 inches; 11.36 ounces (Device: 3.7"W x 3.5"H)
Batteries	1 Lithium Metal battery (included)
Internal Temperature Sensor Range	-20℃ to 60℃ (-4℉ to 140℉)
External Temperature Probe Range	-40℃ to 85℃ (-40℉ to 185℉)
Humidity Measuring Range	1% to 99%RH
Temperature Accuracy	±0.3℃ (-20-40℃)
Humidity Accuracy	±3%RH (25℃, 20-80%RH)
Resolution	0.1℃ / 0.1%RH
Recording Capacity	Up to 100,000 temperature points and 100,000 humidity points
Battery Life	Up to 2 years on a full charge
Mounting Type	Wall Mount

Figure 5: Key specifications of the Elitech GSP-8.

WARRANTY AND SUPPORT

Elitech provides comprehensive customer support for the GSP-8 data logger. For any technical assistance, calibration certificates, or warranty inquiries, please utilize the following contact methods:

- **Calibration Certificate:** Please email or message Elitech directly to request your calibration certificate.
- **Technical Support:** 24/7 US Technician Support is available via Email and Phone. Refer to the product packaging or Elitech's official website for specific contact details.
- **Software Support:** Free software is provided, conforming to FDA standards and supporting macOS and Windows systems, offering a variety of functions for convenient use.

For detailed warranty information, please contact Elitech customer service.

Documents - Elitech – GSP-8

[pdf] Decleration of Conformity Label

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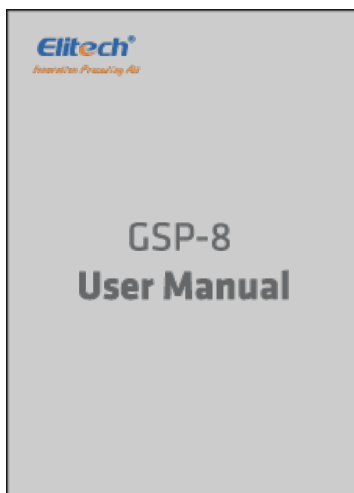
[pdf] User Manual Instructions

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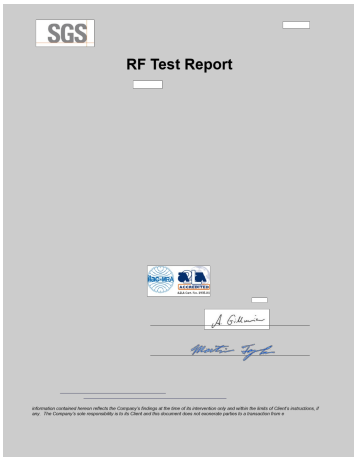[pdf] Test Report

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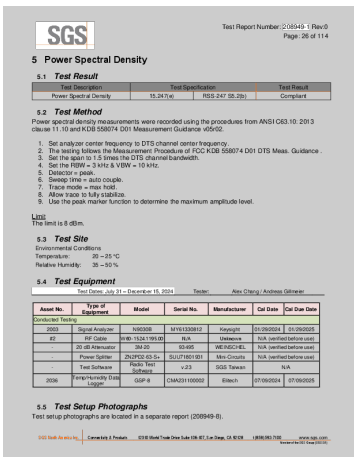
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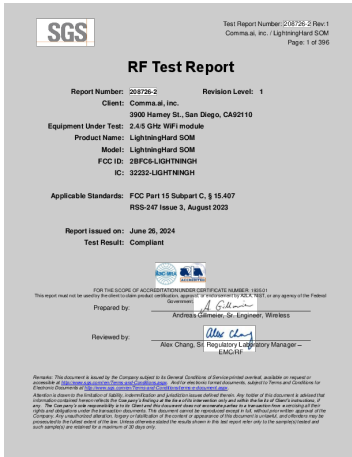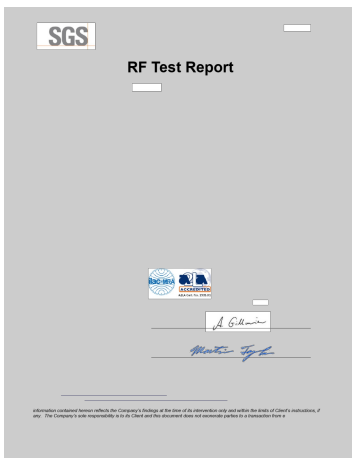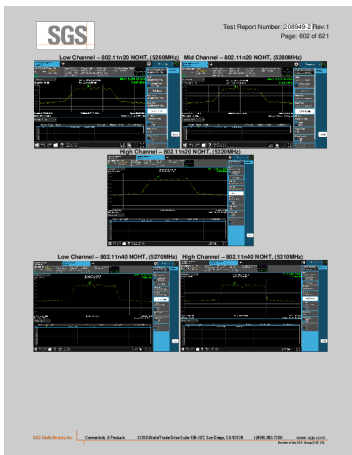EMC Test Report David Schramm 8 Alarm Incorporated 143V730 Outdoor Wi Fi Camera YL6 YL6143V730 143v730
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Test Report Number: 208949-2 Rev:1 Page: 28 of 621 26 dB BW High Channel 802.11n40, 5710MHz com ... 2036 Power Splitter ZN2PD2-63-S Test Software Radio Test Software Temp/Humidity Data Logger **GSP-8** SUU71801931 v.23 CMA231100002 Manufacturer Keysight Keysight Unknown WEINSCHEL Mini-Circuits...

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