

Elitech RC-4HC

Elitech RC-4HC Digital Temperature & Humidity Data Logger User Manual

Model: RC-4HC

1. INTRODUCTION

The Elitech RC-4HC is a multi-use digital temperature and humidity data logger designed for precise environmental monitoring. It features both an internal temperature-humidity sensor and an external temperature sensor, allowing for dual measurement capabilities. This device is ideal for applications requiring accurate temperature and humidity tracking, such as in medical refrigerators, vaccine storage, and general cold chain logistics. It can record up to 16,000 temperature points and 16,000 humidity points, providing comprehensive data for analysis.

The logger is equipped with audible and visual alarms to notify users of temperature or humidity excursions beyond set thresholds. Its powerful LCD provides all key recording information, including alarm status and temperature statistics in both Celsius and Fahrenheit. Data can be easily exported to PDF or Excel formats via a USB connection to a PC.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x RC-4HC Data Logger
- 1 x External Temperature Sensor
- 1 x USB Cable
- 1 x User Manual
- 1 x Validation Certificate
- 1 x Battery (CR2450)



Figure 2.1: Contents of the Elitech RC-4HC package.

3. SETUP

3.1. Battery Installation

Before initial use, install the provided CR2450 battery. Use a coin to open the battery compartment cover on the back of the device. Place the battery under the small metal clip with the positive pole (+) facing you. Close the cover securely.



Figure 3.1: Battery installation process for the RC-4HC.

3.2. Connecting External Probe

If using the external temperature sensor, plug its jack firmly into the designated port on the side of the data logger.



Figure 3.2: RC-4HC Data Logger with external probe connected.

3.3. Initial PC Connection

Connect the data logger to your computer using the provided USB cable. This connection is necessary for initial setup, parameter configuration, and data download.



Export PDF/Word/Excel/Txt



Figure 3.3: Connecting the RC-4HC to a computer via USB.

4. OPERATING INSTRUCTIONS

4.1. Starting the Logger

To start logging data, press the button on the logger once to light up the screen. Then, press and hold the button for more than 4 seconds. A triangle sign will firmly light up on the logger screen, indicating that logging has successfully started.

4.2. Viewing Data on Device

Once logging has started, you can press the button again to cycle through various data points on the LCD screen. This includes current temperature, humidity, total logged points, current time, date, maximum temperature, minimum temperature, and upper/lower temperature limits.

Video 4.1: Demonstrates battery installation, PC connection, and basic operation of the Elitech RC-4HC data logger, including

5. SOFTWARE USAGE

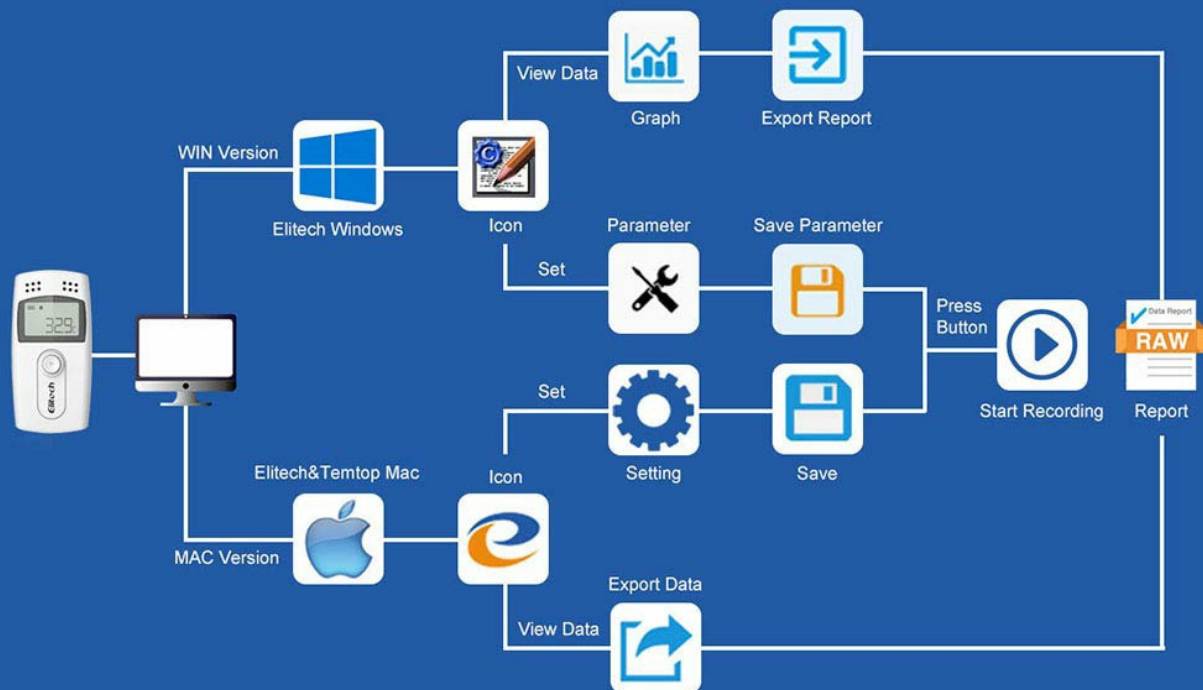
The Elitech RC-4HC requires dedicated software for full functionality, including parameter configuration and data download. The software can be downloaded from the Elitech website.

5.1. Downloading and Configuring Parameters

1. Connect the logger to your computer via USB.
2. Open the ElitechLog software.
3. Navigate to the 'Parameter' tab.
4. Adjust settings such as the log interval (e.g., to 10 seconds) and alarm thresholds as needed.
5. Click the 'Save Parameter' button to apply changes to the logger.
6. Disconnect the logger from the computer.

How to Set your Data Logger Via SW

Download: elitechstore.com/pages/download



Notice:

1. Logger Time will sync with that on the computer after clicking "Save Parameter" or "Save" button.
2. 'C' or 'F' is settable under "Parameter" or "Setting" interface.
3. Start: If choose "press button" as start mode, please press the start button for 5 seconds until a triangle sign shown on the screen, then it means starting to record.

Figure 5.1: ElitechLog software workflow for data management and parameter settings.

5.2. Exporting Data

After logging, reconnect the device to your computer. The software allows you to download the recorded data and export it in various formats, including PDF, Word, Excel, and TXT, for detailed analysis and reporting.



Figure 5.2: Data export options available through the ElitechLog software.

6. SPECIFICATIONS

Feature	Specification
Model Number	RC-4HC
Dimensions	3.8 x 1.6 x 4.3 inches; 3.21 ounces

Feature	Specification
Internal Temperature Range	-22°F to 140°F (-30°C to 60°C)
External Temperature Range	-40°F to 185°F (-40°C to 85°C)
Humidity Range	0% RH to 99% RH
Temperature Accuracy	±0.9 °F (±0.5 °C)
Humidity Accuracy	±3% RH
Record Capacity	16,000 temperature points, 16,000 humidity points
Power Source	1 x Lithium Metal battery (CR2450)
Display Type	LCD
Special Feature	Audible and Visual Alarm
Reusability	Reusable



Figure 6.1: RC-4HC temperature range and record capacity.

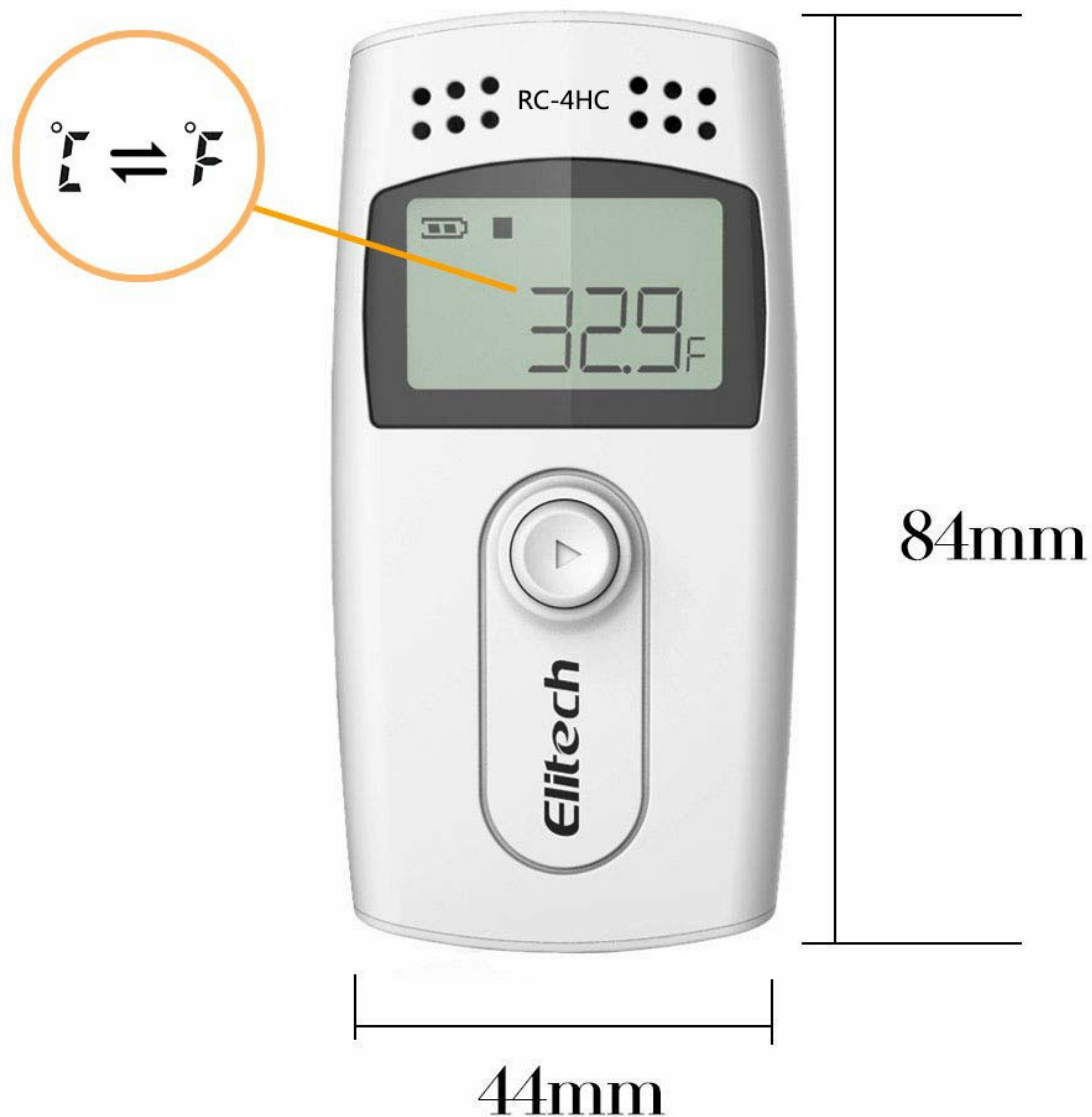


Figure 6.2: RC-4HC dimensions.

7. MAINTENANCE

7.1. Cleaning

To maintain the device, simply wipe it clean with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the casing or electronic components.

7.2. Battery Replacement

When the battery indicator on the LCD shows low power, replace the CR2450 battery following the installation steps in Section 3.1. Ensure proper polarity during replacement.

Package includes: 1*RC-4HC Data Logger, 1*External Temperature Sensor, 1*USB Cable, 1*User Manual, 1*Validation Certificate, 1*Battery



Figure 7.1: Battery replacement steps.

8. TROUBLESHOOTING

8.1. Device Not Recognized by PC

If the device is not recognized when connected to your computer, ensure that the ElitechLog software and necessary drivers (e.g., CP210x USB-UART bridge VCP driver, CH340 Serial Driver for Mac) are correctly installed. Restarting both the device and the computer may also resolve connection issues.

8.2. Clearing Logged Data

To clear historical data and free up memory for continuous recording, export the data using the software and then click the 'Save Parameter' button. This action will clear the device's memory.

8.3. Software Interface and Export Limitations

The software interface may appear basic, and data export options are primarily limited to PDF, Excel, Word, and TXT formats. Data can only be read by the ElitechLog application or exported into these specified formats. Ensure you are comfortable with these formats for your data analysis needs.

9. WARRANTY AND SUPPORT

Elitech provides comprehensive customer support for its products. For any technical assistance, inquiries, or to request a calibration certificate, please contact Elitech Technology, Inc. directly.

Telephone: +1 (408) 844-4070






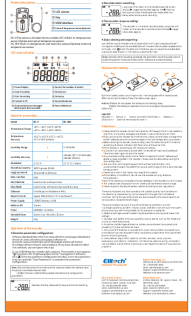
Email: support@elitechus.com

Website: www.elitechstore.com

24/7 US Technician Support is available via email and phone.

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Related Documents - RC-4HC

	<p>Elitech RC-4/RC-4HA/RC-4HC Data Logger Quick Start Guide Installation & Configuration</p> <p>Quick Start Guide for Elitech RC-4, RC-4HA, and RC-4HC data loggers. Learn how to install batteries, set up software, configure settings, start/stop logging, and troubleshoot common issues. Includes detailed technical specifications for temperature and humidity monitoring.</p>
	<p>Elitech RC-4/RC-4HA/RC-4HC Data Logger Quick Start Guide</p> <p>A concise quick start guide for Elitech RC-4, RC-4HA, and RC-4HC data loggers, providing essential instructions on battery installation, software setup, logger operation, configuration, and troubleshooting.</p>
	<p>Elitech RC-4 / RC-4HC User Manual</p> <p>User manual for the Elitech RC-4 and RC-4HC temperature and humidity data loggers. Includes specifications, operation, status indication, and battery replacement.</p>
	<p>Elitech RC-4 Series Temperature and Humidity Data Logger - User Manual & Specifications</p> <p>Comprehensive user manual and technical specifications for the Elitech RC-4 and RC-4HC series temperature and humidity data loggers. Learn about operation, setup, data logging, and features for cold chain management.</p>
	<p>Elitech RC-4 Series Temperature and Humidity Data Loggers - User Manual</p> <p>Comprehensive user manual for Elitech RC-4 and RC-4HC series temperature and humidity data loggers. Covers specifications, operation, setup, and troubleshooting for cold chain monitoring.</p>
	<p>Elitech RC-4/RC-4HC Temperature and Humidity Data Logger User Manual</p> <p>This user manual provides comprehensive instructions for operating and maintaining the Elitech RC-4 and RC-4HC temperature and humidity data loggers. It covers product features, operation, parameter configuration, data viewing and export, battery replacement, specifications, precautions, and warranty information.</p>