USER MANUAL

RC-4 / RC-4HC

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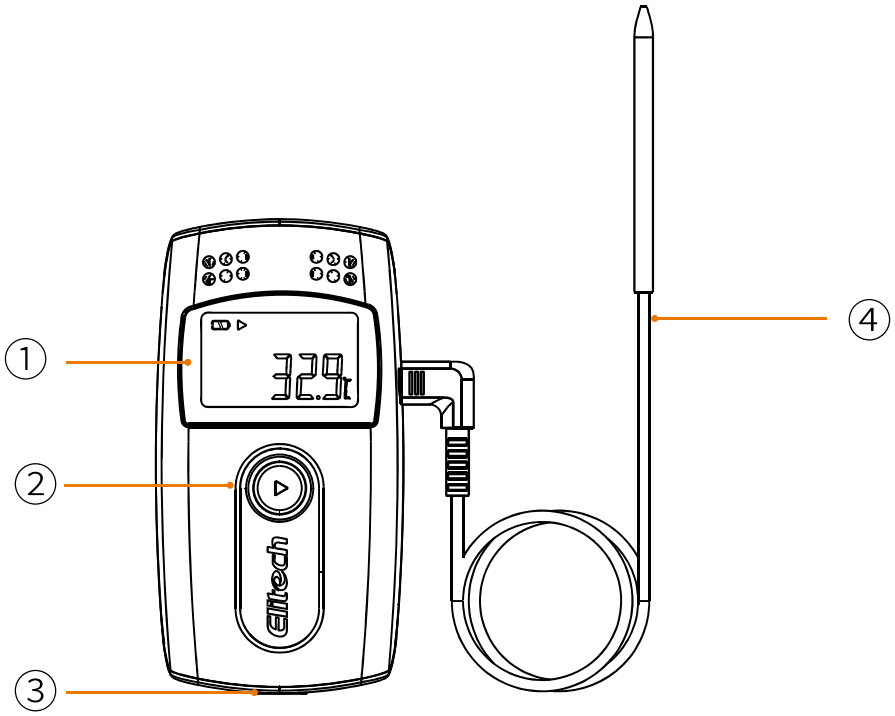
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Innovation Preceding All

Overview

The RC-4 series are multi-use data loggers with external temperature probe, where RC-4 is a temperature logger, RC-4HC is a temperature and humidity logger.

They can be used to record temperature/humidity of foods, medicines and other goods during storage, transportation and in each stage of the cold chain including cooler bags, cooling cabinets, medicine cabinets, refrigerators, laboratories, reefer containers and trucks.



① LCD Screen	③ USB Port
② Button	④ External Temperature Probe

Specifications

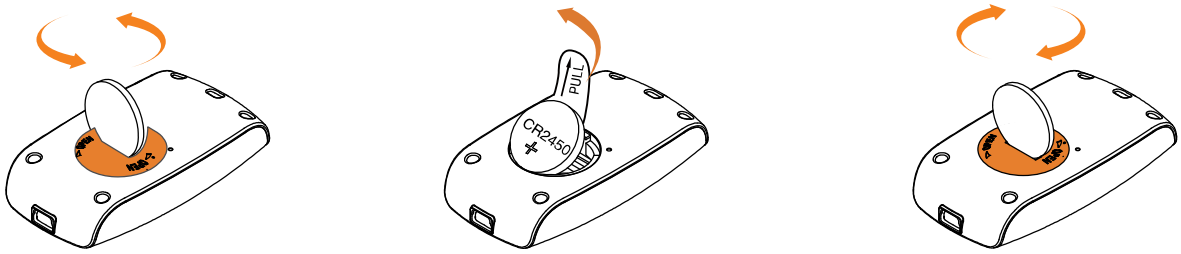
Model	RC-4	RC-4HC
Temperature Measurement Range	-30 ℃~+60 ℃ (-22 ℉~140 ℉) -40 ℃~+85 ℃ (-40 ℉~185 ℉)	
Temperature Accuracy	±0.5 ℃/±0.9 ℉ (-20 ℃~+40 ℃) ±1 ℃/±1.8 ℉ (others)	
Humidity Measurement Range		0~100%RH
Humidity Accuracy		±3%RH (25 ℃, 20~80%RH) ±5%RH (others)
Resolution	0.1 ℃/ ℉	0.1 ℃/ ℉; 0.1%RH
Memory	Maximum 16,000 points	
Logging Interval	10 seconds to 24 hours	
Data Interface	USB	
Start Mode	Press button; Use software	
Stop Mode	Press button; Auto stop; Use software	
Software	ElitechLog for macOS & Windows system	
Report Format	PDF/EXCEL/TXT* by ElitechLog software	
Power	CR2450 battery/USB	
Shelf Life	2 years	
Certification	EN12830, CE, RoHS	
Dimensions	84 x 44 x 20 mm	
Weight	60g	

**TXT for Windows ONLY*

Operation

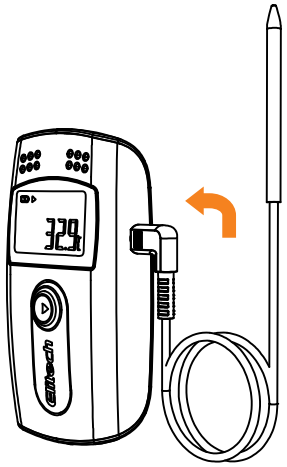
1. Battery Activation

(1) Turn the battery cover counterclockwise to open it.
(2) Gently press the battery to hold it in position, then pull out the battery insulator strip.
(3) Turn the battery cover clockwise and tighten it.



2. Install Probe

By default, RC-4/4HC uses the internal sensor to measure temperatures.
If you need to use the external temperature probe, simply install it as shown below:



3. Install Software

Please download and install the free ElitechLog software (macOS and Windows) from Elitech US: www.elitechustore.com/pages/download
or Elitech UK: www.elitechonline.co.uk/software
or Elitech BR: www.elitechbrasil.com.br.

4. Configure Parameters

First, connect the data logger to your computer via USB cable, wait until the icon shows on the LCD; then configure via:

ElitechLog Software:

- If you do not need to change the default parameters (in **Appendix**); please click **Quick Reset** under **Summary** menu to synchronize local time before usage;
- If you need to change the parameters, please click the **Parameter** menu, enter your preferred values, and click the **Save Parameter** button to complete the configuration.

Warning! For first time user or after battery replacement:
*To avoid time or time zone errors, please make sure you click **Quick Reset** or **Save Parameter** before usage to sync and configure your local time into the logger.*

5. Start Logging

Press Button: Press and hold the button for 5 seconds until the ▶ icon shows on the LCD, indicating the logger starts logging.

Note: If the ▶ icon keeps flashing, it means the logger configured the start delay; it will start logging after the set delay time elapses.

6. Stop Logging

Press Button*: Press and hold the button for 5 seconds until the ■ icon shows on the LCD, indicating the logger stops logging.
Auto Stop: When the logging points reach the maximum memory of 16,000 points, the logger will stop automatically.
Use Software: Open ElitechLog software, click **Summary** menu, and **Stop Logging** button.

*Note: *Default stop is via **Press Button**, if set as disabled, the button stop function will be invalid;*
*Please open the ElitechLog software and click **Stop Logging** button to stop it.*

7. Download Data

Connect the data logger to your computer via USB cable, wait until the icon shows on the LCD; then download via:
ElitechLog Software: The logger will auto-upload data to ElitechLog, then click **Export** to select your desired file format to export. If data failed for auto-upload, please manually click **Download** and then follow the export operation.

8. Reuse the Logger

To reuse a logger, please stopped it first; then connect it to your computer and use ElitechLog software to save or export the data.
Next, reconfigure the logger by repeating the operations in **4. Configure Parameters***.
After finished, follow **5. Start Logging** to restart the logger for new logging.

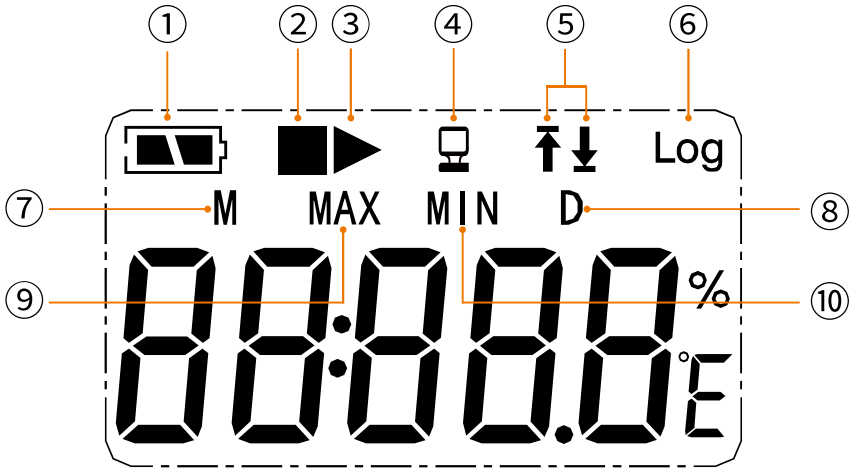
*Warning! * To make space for new loggings, all previous logging data inside the logger will be deleted after re-configuration.*
*If you forgot to save/export data, please try to locate the logger in the **History** menu of ElitechLog software.*

Status Indication

1. Buttons

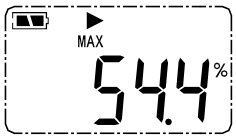
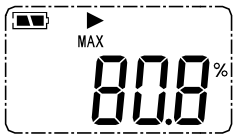
Operation	Function
Press and hold the button ▷ for 5 seconds	Start/Stop logging
Press the button ▷	Check/Switch interfaces

2. LCD Screen



① Battery Level	⑥ Memory
② Stopped	⑦ Month
③ Logging	⑧ Day
④ Connected to PC	⑨ Maximum Temperature/Humidity
⑤ High/Low Temperature Alarm	⑩ Minimum Temperature/Humidity

3. LCD Interface

Temperature		Minimum Temperature	
Humidity		Maximum Humidity	
Logging Points		Minimum Humidity	
Current Time		High Temperature Limit	
Current Date (Month-Day)		Low Temperature Limit	
Maximum Temperature		*Note: Only RC-4HC displays humidity-related interfaces.*	

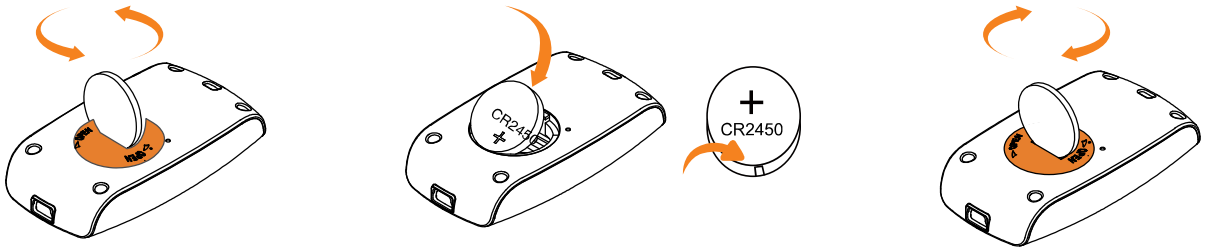
4. LCD-Buzzer Indication

LCD Display...	**Buzzer***	**Meaning...**
▶		Started
■		Stopped
▶ and ■ not displayed		Not started
⭱ / ⭳ (Maximum/Minimum Temperature)	Beeps 3 times /10 times	High/low temperature limit exceeded
⭱ / ⭳ (Maximum/Minimum Humidity)		High/low humidity limit exceeded

** To enable buzzer function, please open ElitechLog software and go to **Parameter** menu -> **Buzzer** -> **Enable**.*

Battery Replacement

(1) Turn the battery cover counterclockwise to open it.
(2) Install the new and wide-temperature CR2450 battery into the battery compartment with its + facing upward.
(3) Turn the battery cover clockwise and tighten it.



What's Included

- Data Logger x 1
- CR2450 battery x 1
- External Temperature Probe x 1 (1.1m)
- USB Cable x 1
- User Manual x 1
- Certificate of Calibration x 1

Warning

- *Please store your logger at room temperature.*
- *Please pull out the battery insulator strip in the battery compartment before using.*
- *If you use the logger for the first time, please use ElitechLog software to synchronize system time and configure parameters.*
- *Do not remove the battery if the logger is recording.*
- *The LCD screen will be auto off after 15 seconds of inactivity (by default). Press the button again to turn on the screen.*
- *Any parameter configuration on ElitechLog software will delete all logged data inside the logger. Please save data before you apply any new configurations.*
- *To ensure the humidity accuracy of RC-4HC, please avoid contact with unstable chemical solvents or compounds, especially avoid long-term storage or exposure to the environments with high concentrations of ketene, acetone, ethanol, isopropanol, toluene, etc.*
- *Do not use the logger for long-distance transport if the battery icon is less than half as*  *.*