

USER MANUAL

RC-61/GSP-6

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Elitech®

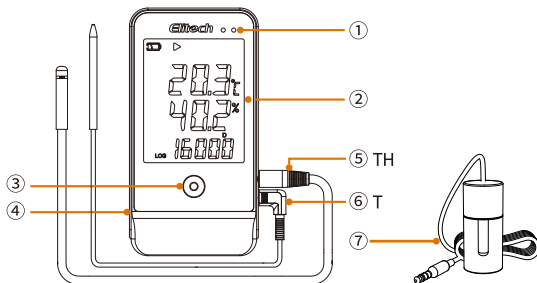
Innovation Preceding All



Overview

RC-61/GSP-6 is a temperature and humidity data logger with two external probes that allow various probe combination methods. It features a large LCD Screen, audible-visual alarm, auto shortened interval for alarms and other functions; its built-in magnets are also easy for mounting during usages.

It can be used to record the temperature/humidity of medicines, chemicals, and other goods during storage, transportation and in each phase of the cold chain including cooler bags, cooling cabinets, medicine cabinets, refrigerators and laboratories.



① LED Indicator

② LCD Screen

③ Button

④ USB Port

⑤ Temperature-Humidity-Combined Probe (TH)

⑥ Temperature Probe (T)

⑦ Glycol Bottle Probe (optional)

Specifications

Model	RC-61/GSP-6
Temperature Measurement Range	-40°C~+85°C (-40°F~185°F)
Temperature Accuracy	TH Probe: $\pm 0.3^{\circ}\text{C}/\pm 0.6^{\circ}\text{F}$ (-20°C~+40°C), $\pm 0.5^{\circ}\text{C}/\pm 0.9^{\circ}\text{F}$ (others) T Probe: $\pm 0.5^{\circ}\text{C}/\pm 0.9^{\circ}\text{F}$ (-20°C~+40°C), $\pm 1^{\circ}\text{C}/\pm 1.8^{\circ}\text{F}$ (others)
Humidity Measurement Range	0%RH~100%RH
Humidity Accuracy	$\pm 3\%$ RH (25°C, 20%RH~80%RH), $\pm 5\%$ RH (others)
Resolution	0.1°C/°F; 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* via ElitechLog software
External Probe	Temperature-humidity combined probe, temperature probe; glycol bottle probe (optional)**
Power	ER14505 battery/USB
Shelf Life	2 years
Certification	EN12830, CE, RoHS
Dimensions	118 x 61.5 x 19 mm
Weight	100g

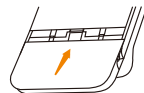
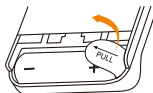
*TXT for Windows ONLY.

** The glycol bottle contains 8ml propylene glycol.

Operation

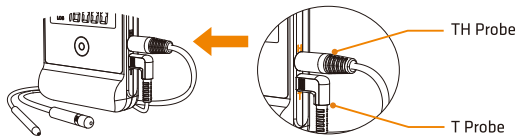
1. Activate Logger

- (1) Open the battery cover, gently press the battery to hold it in position.
- (2) Pull out the battery insulator strip.
- (3) Then re-install the battery cover.



2. Install Probe

Please install the probes to the corresponding jacks of T and H, details are shown below:



3. Install Software

Please download and install the free ElitechLog software (macOS and Windows) from Elitech US: www.elitechstore.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 the 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 configure your local time into the logger.

Note: The parameter of **Interval Shortened** is disabled by default. If you set it to Enable, it will auto shorten the logging interval to once per minute if it exceeds temperature/humidity limit(s).

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 with 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, the logger will stop automatically.

Use Software: Connect the logger to your computer; 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, and wait until the  icon shows on the LCD, then download data via:

ElitechLog Software: The logger will auto-upload data to ElitechLog, then please click **Export** to select your desired file format to export. If data failed for auto-upload, please manually click **Download** and then repeat above 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.

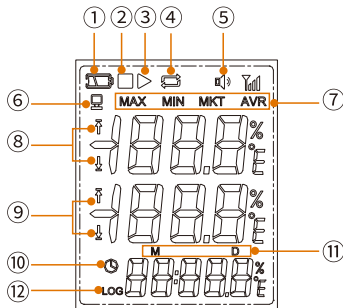
Next, reconfigure the logger by repeating the operations in **4. Configure Parameters***.

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. LCD Screen



① Battery Level

② Stopped

③ Logging

④ Circular Logging

⑤ Over Limit Alarm

⑥ Connected to PC

⑦ Max./Min./MKT/Average Values

⑧ High/Low Temperature Limit

⑨ High/Low Temperature/Humidity Limit

⑩ Current Time

⑪ Month-Day

⑫ Logging Points

2. LCD Interface

Temperature
(Humidity);
Logging Points



Maximum,
Current Time



Minimum,
Current Date



High Alarm Limit



Low Alarm Limit



Average



Probe Not
Connected



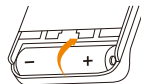
3. Buttons-LCD-LED Indication

Operation	LCD Display	LED Indicator Flashes	Buzzer Alerts...*	Meaning...
		always on		Connected to PC
	↑ / ↓	once every 15 seconds	; Beeps 3 times/10 times	High/Low temperature/humidity limit exceeded
	▶ and ■ not displayed	once	; Beeps once	Not started
	▶	twice	; Beeps twice	Started
Hold for 5 seconds	■	3 times	; Beeps 3 times	Stopped
	▶ flashes	4 times	; Beeps 4 times	Start delay
Short press	Interfaces switching...			Check/switch interfaces

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

Battery Replacement

1. Open the battery cover, remove the old battery.
2. Install a new ER14505 battery into the battery compartment. Please note the negative cathode is installed to the spring end.
3. Close the battery cover.



What's Included

● Data Logger	x1	● Temperature Probe	x1	● User Manual	x1
● Temperature-Humidity-Combined Probe	x1	● USB Cable	x1	● Calibration Certificate	x1
● ER14505 Battery	x1				

⚠ 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, 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 .
- ⌚ The glycol filled bottle probe can be considered as a thermal buffer that can simulate the actual temperature variations inside, which is suitable for vaccine, medical or similar scenarios.

Appendix

Default Parameters

Model	RC-61	GSP-6
Logging Interval	15 minutes	15 minutes
Start Mode	Press Button	Press Button
Start Delay	0	0
Stop Mode	Use Software	Use Software
Repeat Start/Circular Logging	Disable	Disable
Time Zone		
Temperature Unit	°C	°C
Low/High Temperature Limit	-30°C/60°C	-30°C/60°C
Calibration Temperature	0°C	0°C
Low/High Humidity Limit	10%RH/90%RH	10%RH/90%RH
Calibration Humidity	0%RH	0%RH
Button Tone/Audible Alarm	Disable	Disable
Display Time	15 seconds	15 seconds
Sensor Type	Temp (Probe T) + Humi (Probe H)	Temp (Probe T) + Humi (Probe H)