

Elitech RC-51H Multi-use Temperature and Humidity User Manual

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and Humidity User Manual

RC-51H User Manual Multi-use Temperature&Humidity Data Logger

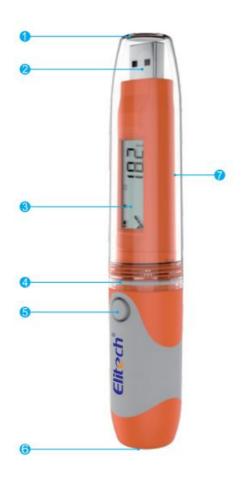
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Product Overview

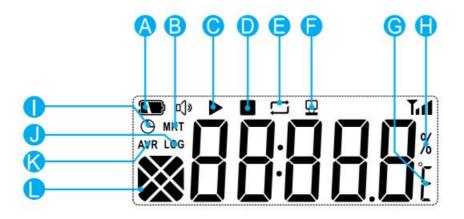
This temperature and humidity data logger is mainly used in the fields or places of medicine, food, life science, flowers, breeding industry, ice chest, container, shady cabinet, medical cabinet, refrigerator, laboratory and greenhouse, etc. RC-51 H is plug and play and It can directly generate the data report, with no need to install data management software. The data can still be read in case battery runs out.

Structure Description



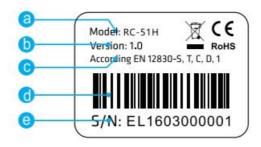
- 1. Transparent cap
- 2. USB port
- 3. LCD screen
- 4. Seal ring
- 5. Button & Bi-color indicator (red and green)
- 6. Sensor
- 7. Product label

LCD screen



- · A Battery indicator
- B Mean kinetic temperature
- C Start recording indicator
- D Stop recording indicator
- E Cyclic recording indicator
- F Computer connection indicator
- G Temperature unit(°CRF)
- H Humidity unit or Progress percentage
- I Timing indicator
- J Average value indicator
- K Number of records
- · L Combined indicator

Product label



- a Model
- b Firmware version
- · C Certification information
- d Barcode
- e Serial number

Picture is for reference only, please take real object as standard.

Technical Specifications

• Recording Options: Multi-Use

• Temperature Range: -30 to 70

• humidity Range: 10%95%

Temperature & humidity Accuracy: ±0.5(-20/+40);±1.0(other range) ±3%RH (2520%90%RH)±5%RH(other range)

• Data Storage Capacity 32,000 readings:

Software: PDF / Elitech Log Win or Mac (latest version)

• Connection Interface: USB 2.0, A-Type

• Shelf Life/Battery: 2 years1/ER14250 button cell

• Recording Interval: 15 minutes(standard)

· Startup Mode: Button or software

• Stop Mode: Button, software or stop when full

· Weight: 60g

• Certifications: EN12830, CE, RoHS

· Validation Certificate: Hardcopy

• Report Generation: Automatic PDF report

Temperature & 0.1(Temperature)
 humidity Resolution 0.1%RHcHimidity

· Password Protection: Optional on request

• Reprogrammable: With free Elitech Win or MAC software

• Alarm Configuration: Optional, up to 5 points, Humidity only supports upper and lower limit alarm

• Dimensions: 131mmx24mmx7mm(LXD)

1.Depending on optimal storage conditions (±15 to +23/45% to 75% RH)

Parameter Instruction

Users can reconfigure the parameters by data management software per actual needs. The the original parameters and

Alarm threshold	This data logger supports 3 upper temperature limits, 2 lower temperature limits, 1 upper humidity limit and 1 lower humidity limit.		
Alarm zone	The zone which beyond the alarm threshold		
Alarm type	Single	The data logger records the single time for continuous over-temperature events.	
	Cumulative	The data logger records the cumulative time of all the over-temperature events.	
Alarm delay	The data logger does not alarm immediately when the temperature is within the alarm zone. It begins to alarm only when the over-temperature time elapses the alarm delay time.		
MKT	Mean kinetic temperature, which is an evaluation method of the temperature fluctuation effect on the goods in storage.		

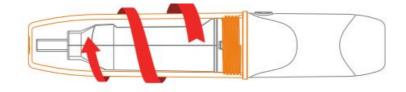
Operating Instructions

This data logger can be stopped by software. Users can stop the logger by clicking the stop button in the data management software.

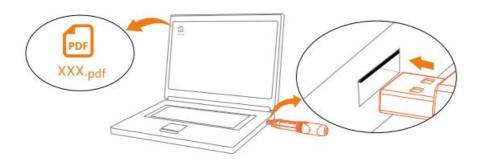
Action	Parameter configuration	Operation	LCD indicator	Indicator
Start	Instant-on	Disconnect to USB	rE[Green indicator flashes 5 times.
	Timing start	Disconnect to USB	SEALE	Green indicator flashes 5 times.
	Manual start	Press and hold for 5s	rE[Green indicator flashes 5 times.
	Manual start (delayed)	Press and hold for 5s	SEArE	Green indicator flashes 5 times
Stop	Manual stop	Press and hold for 5s	StoP	Red indicator flashes 5 times.
	Over-Max-record-capacity stop (disable manual stop)	Reach the Max capacity	StoP	Red indicator flashes 5 times.
	Over-Max-record-capacity stop (Enable manual stop)	Reach the Max capacity or press and hold the button for 5s	Stop	Red indicator flashes 5 times.
View		Press and release the buttor	n Refer to the menu and	status indicator

View data

When the data logger is inserted into the USB port of the computer, the data report will be created automatically. The red and green indicators flash in turn when the document is being created, and the LCD screen shows the progress of PDF Report creation. The red and green indicators light at the same time immediately after the document is created, then users can view the data report . The document creation will last for no more than 4 minutes.



(1) Rotate the transparent cap in the direction of the arrow and remove it.



(2) Insert the data logger into the computer and view the data report.

Menu and Status Indicator

Description of the indicator flashing status

Status	Action of the indicators	Status	Action of the indicators	
Not started	The red and green indicators flash 2 times simultaneously.	Started-alarm	The red indicator flashes once. The red light flashes once per minute automatically.	
Start delay Timing	The red and green indicators flash once simultaneously.			
Started-normal	The green indicator flashes once. The green light flashes once per minute	Stopped-normal	The green light flashes 2 times.	
	automatically.	Stopped-alarm	The red light flashes 2 times.	

Description of the menus

Menu	Description	Example	Menu	Description	Example
1	Countdown of the (timing) start	(HH:MM)	6	Average humidity value	100 LIST
	Countdown of the (delayed) start	* 0342 (HH:MM)	7	Maximum temperature value	. 98.
2	Current temperature value	23:	8	Maximum humidity value	. 98°
3	Current humidity value	2.3	9	Minimum temperature value	~
4	Points of the records	~ 32000:	10	Minimum humidity value	~
5	Average temperature value	48 _E			

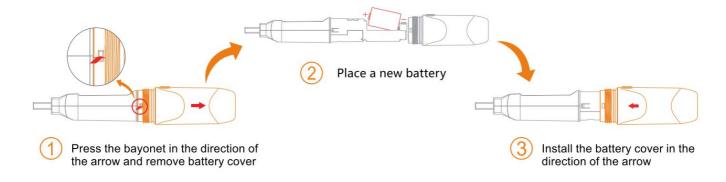
Description of the combined indicators and other status

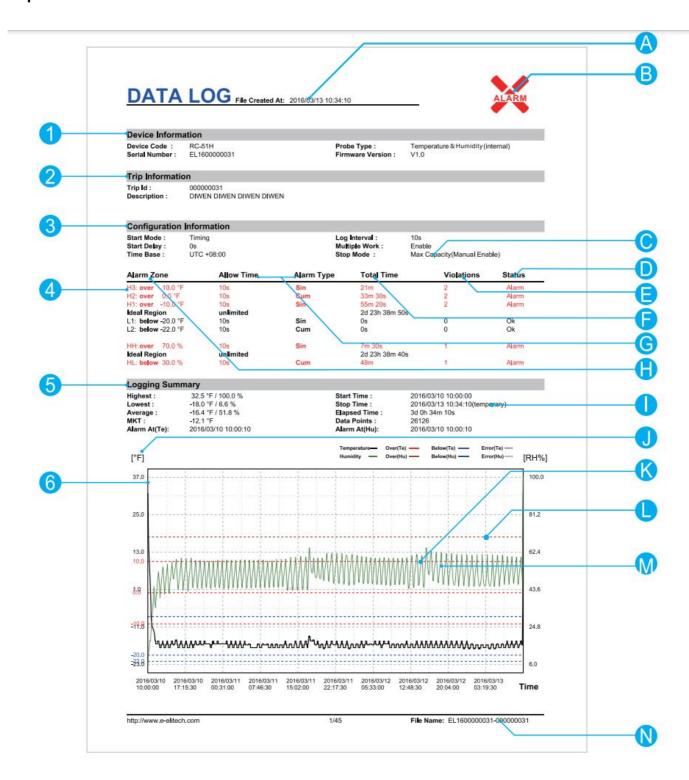
Display		Description	Display	Description
(group) ³	3 b	No alarm	(group) rotating	Rate of progress
(group)	×	Already alarmed		Null value
(group)	*	Minimum value		Clear data
(group)	^	Maximum value	"	In USB communication

Note:

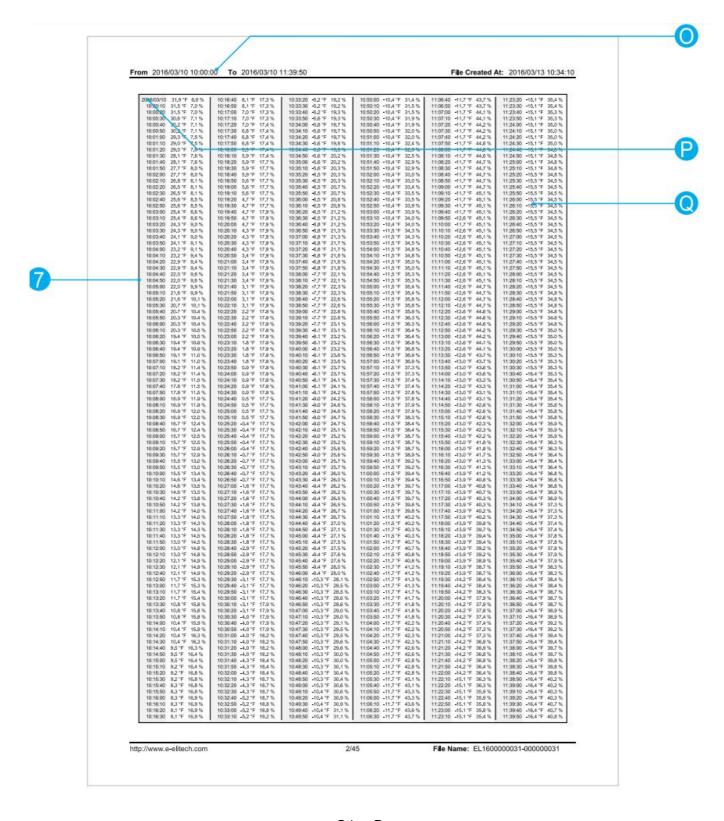
- 1. Menu 1 appears only when the corresponding function is selected.
- 2. " ►" should be in a slate of blinking .•
- 3. The display in the combined indicator area. The same as below.

Replace battery





The First Page



Other Page

- 1. Basic information
- 2. Description of the usage
- 3. Configuration information
- 4. Alarm threshold and related statistics
- 5. Statistical information
- 6. Temperature and humidity graph
- 7. Temperature and humidity data details
- 8. A Document creation time (record stop lime)

- 9. B Alarm (Alarm status as shown in the figure above)
- 10. C Stop mode that has been set.
- 11. D Alarm status of the temperature alarm zone
- 12. E Total times of exceeding the temperature alarm threshold
- 13. F Total time of exceeding the temperature alarm threshold
- 14. G Alarm delay and alarm type
- 15. H Alarm threshold and temperature alarm zones
- 16. I Actual stop mode (different from the item C)
- 17. J Vertical coordinate unit of the data graph
- 18. K Alarm threshold line (corresponding to the item L)
- 19. L Alarm threshold
- 20. M Record data curve (black indicates temperature, deep green indicates humidity)
- 21. N Document name (serial number & description of usage ID)
- 22. O Record time range in the current page
- 23. P Records when date changes (date & temperature and humidity)
- 24. Q Records when the date is not changed (time & temperature and humidity)

Attention: The data above is only used as explanation of the report. Please refer to the actual document for specific configuration and information

What's included

- 1 temperature and humidity data logger
- 1 Er14250 battery
- 1 user manual

The product should avoid contact with chemicals like unstable chemical solvents or other organic compounds. Particularly, it should not be stored in or exposed to environments that contain high concentration of ketene, acetone, ethanol, isopropanol, toluene and etc. Please do not use the product in the soil for a long time.

Elitech Technology, Inc.

1551 McCarthy Blvd, Suite 112, Milpitas, CA 95035 USA Tel: (+1)408-844-4070 Sales: sales@elitechus.com Support: support@elitechus.com Website: www.elitechus.com Software Download: elitechus.com/download/software

Elitech (UK) Limited

2 Chandlers Mews, London, E14 8LA UK Tel: (+44)203-645-1002 Sales: sales@elitech.uk.com Support: service@elitech.uk.com Website: www.elitech.uk.com Software Download: elitechonline.co.uk/software

Documents / Resources



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References

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