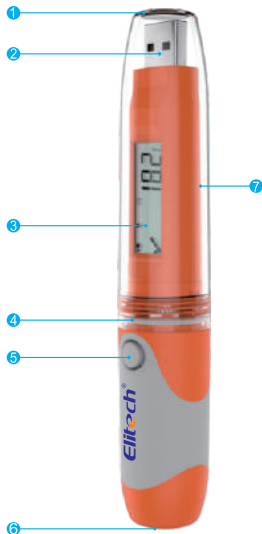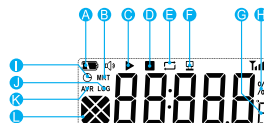## Product Overview

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-51H 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

LCD screen

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

For more details, please refer to the menu and status indicator

Product label ①

Model: RC-51H
Version: 1.0
According EN 12830-S, T, C, D, 1
RoHS
S/N: EL1603000001

1	Transparent cap	5	Button & Bi-color indicator (red and green)
2	USB port	6	Sensor
3	LCD screen	7	Product label
4	Seal ring		
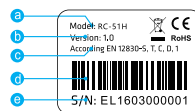
a	Model	d	Barcode
b	Firmware version	e	Serial number
c	Certification information		

① : Picture is for reference only, please take real object as standard.

🡒 Technical Specifications

Recording Options	Multi-Use	Certifications	EN12830, CE, RoHS
Temperature Range	-30℃ to 70℃	Validation Certificate	Hardcopy
humidity Range	10%～95%	Report Generation	Automatic PDF report
Temperature & humidity Accuracy	±0.5(-20℃/+40℃);±1.0(other range) ±3%RH (25℃，20%～90%RH)，±5%RH(other range)	Temperature & humidity Resolution	0.1℃(Temperature) 0.1%RH（Himidity）
Data Storage Capacity	32,000 readings	Password Protection	Optional on request
Software	PDF /ElitechLog Win or Mac (latest version)	Reprogrammable	With free Elitech Win or MAC software
Connection Interface	USB 2.0, A-Type	Alarm Configuration	Optional, up to 5 points,Humidity only supports upper and lower limit alarm
Shelf Life/Battery	2 years¹/ER14250 button cell		
Recording Interval	15 minutes(standard)	Demensions	131mmx24mmx7mm(LxD)
Startup Mode	Button or software		
Stop Mode	Button, software or stop when full	1.Depending on optimal storage conditions (±15℃ to +23℃/45% to 75% rH)	
Weight	60g		

Parameter Instruction

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

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
	Cumulative
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.

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.

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	rEC	Green indicator flashes 5 times.
	Timing start	Disconnect to USB	StArt	Green indicator flashes 5 times.
	Manual start	Press and hold for 5s	rEC	Green indicator flashes 5 times.
	Manual start (delayed)	Press and hold for 5s	StArt	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 button 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.

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Menu and Status Indicator

Description of the indicator flashing status

Status	Action of the indicators
Not started	The red and green indicators flash 2 times simultaneously.
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 automatically.

Status	Action of the indicators
Started-alarm	The red indicator flashes once. The red light flashes once per minute automatically.
Stopped-normal	The green light flashes 2 times.
Stopped-alarm	The red light flashes 2 times.

Description of the menus

Menu	Description	Example
1[1]	Countdown of the (timing) start	03:42 (HH:MM)
	Countdown of the (delayed) start	03:42 [2] (HH:MM)
2	Current temperature value	2.3℃
3	Current humidity value	2.3%
4	Points of the records	32000
5	Average temperature value	4.8℃

Menu	Description	Example
6	Average humidity value	4.5%
7	Maximum temperature value	9.8℃
8	Maximum humidity value	9.8%
9	Minimum temperature value	2.7℃
10	Minimum humidity value	2.7%

Description of the combined indicators and other status

Display	Description
(group) [3]	No alarm
(group)	Already alarmed
(group)	Minimum value
(group)	Maximum value

Display	Description
(group) rotating	Rate of progress
- -	Null value
- - - -	Clear data
U5b	In USB communication

Note: 1 Menu 1 appears only when the corresponding function is selected.   2 "▶" should be in a state of blinking.
       3 The display in the combined indicator area. The same as below.

Replace battery

② Place a new battery

① Press the bayonet in the direction of the arrow and remove battery cover

③ Install the battery cover in the direction of the arrow
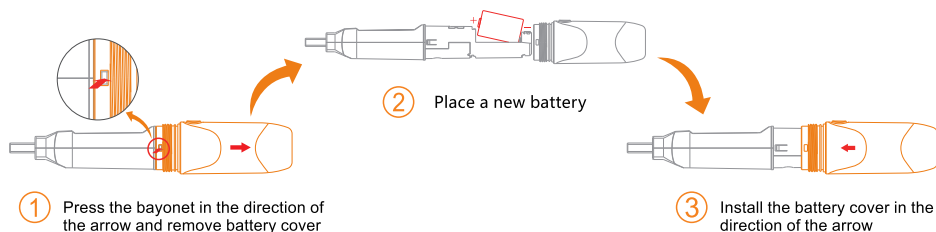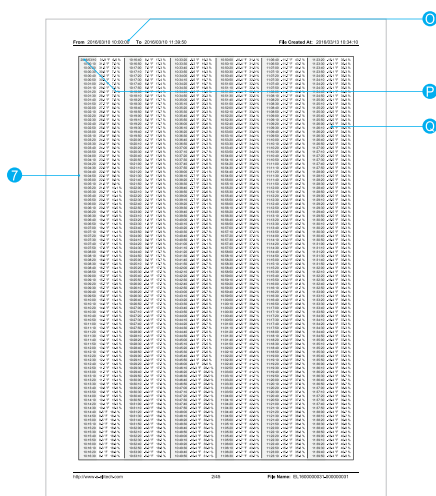
Report
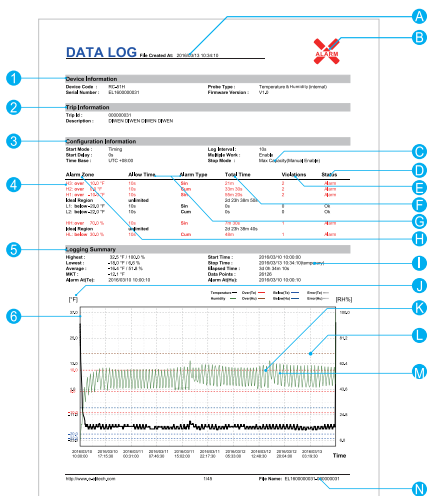
The first page   Other pages

1	Basic information	B	Alarm (Alarm status as shown in the figure above)	J	Vertical coordinate unit of the data graph
2	Description of the usage	C	Stop mode that has been set.	K	Alarm threshold line (corresponding to the item L)
3	Configuration information	D	Alarm status of the temperature alarm zone	L	Alarm threshold
4	Alarm threshold and related statistics	E	Total times of exceeding the temperature alarm threshold	M	Record data curve (black indicates temperature, deep green indicates humidity)
5	Statistical information	F	Total time of exceeding the temperature alarm threshold	N	Document name (serial number & description of usage ID)
6	Temperature and humidity graph	G	Alarm delay and alarm type	O	Record time range in the current page
7	Temperature and humidity data details	H	Alarm threshold and temperature alarm zones	P	Records when date changes (date & temperature and humidity)
A	Document creation time (record stop time)	I	Actual stop mode (different from the item C)	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.