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Elitech RC-51 Data Logger User Manual

Data Logger RC-51 User Manual

Contents

Product Overview

This data loggeris mainly used to record the temperature of food, pharmaceuticals and chemicals, etc.in the storage and transportation. It is especially applicable to container transportation of temperature sensi ~tive goods by sea, air and road for large export-oriented enterprises and global chain enterprises.

Specification

Size: 131 (Length) * 24 (Diameter) mm

Technical paramet

Temperature measuring range: -30°C~70°C
Resolution: 0.1C
Sensor: Built-in NTC thermistor
Temperature accuracy: 05°C (-20°C~40°C); +1°C (others)
Record capacity: 32000 points (MAX)
Alarm type: continuous, cumulative
Alarm setting: no alarm, upper/lower limit alarm, multiple alarms
Record interval: 10 sec ~ 24 hour continuously set
Data interface: USB
Report type: Al format doc
Power supply: single-use lithium battery 3.6V (replaceable)
Battery life: at least 12 months at 25°C with 15 min record interval

Use the data logger for the first time

Download the data management software from the link below.
http://www.e-elitech.com/xiazaizhongxin/
Install the software first. Insert data logger to computer USB port and install the drive software according to the prompt information.Open the software; the data logger will automatically upload information after connected to the computer. View information and save the configuration to calibrate the time.

Configure parameters

Refer to the data management software instruction for details.
When connected to USB, the data logger displays Figure 19.

Start the data logger

There are three modes to start it—instant-on, manual start, and timing start
Instant-on: After parameter configuration, the data logger starts recording immediately when it disconnects to USB.
Manual start: After parameter configuration, press and hold the button for 5 seconds to start the data logger. In this mode, it has start delay function If this function is enabled, the data logger will not record data immediately after start-up but start recording after the set delay time elapses.
Timing start: After parameter configuration and disconnection with USB, the data logger starts recording when it reaches the set time.

View data temporarily

If you need to view simple statistical information, you may directly press the button to turn page and check. The LCD screen can display MKT,average value, Max value and Min value.
If you need detailed information, please connect the data logger to computer USB. After a few min (in 3 min), the data will be saved in the USB disk of the data logger in Al format report. You can open it by Al or PDF reader.
Moreover, you can connect the data logger to a computer and analyze the data vertically and horizontally by the data management software.

Stop the data logger

There are several modes to stop it—manual stop,over – Max-record – capacity stop (enable/disable manual stop), stop via software Manual stop: When the data logger is recording in this mode, youmay press and hold the button for 5 second to stop it. You can also use the software tostopit. If the record capacity reaches the Max value (32000 points) and the data logger is not stopped manually. The data logger will save the data circularly by deleting the initial data. (It keeps the statistical in formationof the whole transportation process)

Note: When the record capacity exceeds the Max capacity (32000points) in the manual mode, the data logger can continue recording the temperature state of the whole transportation process but only keep the detail of the last 32000 points. Please use the "manual stop" mode with cautionif you have demand of tracing back the detail of the whole process.

Over-Max-record-capacity stop (enable manual stop): In this mode, you can stop the data logger by hand or via software, or it wil stop automatically when the record data reaches the Max capacity (32000 points).

Over-Max-record-capacity stop (disable manual stop): In this mode, it will stop automatically when the record data reaches the Max capacity (32000 points), or you stop it via software.

Stop via software: You can stop the data logger via software in any mode.

View data

Connect the data logger to the computer via USB and then view the data.
View Al report: Open the USB disk to view the exported Al report.
View report via the data management software: Open the software and import the data, the software will display the configurationinfo and record data

Display menu instruction

The data logger displays different pages based on the settings. Below is the Max display info. If you do not set relative info, it will not appear in page turning.
Menu 1: Start delay time or the remaining time of timing start (Hr: Min. 10Sec).
See Figure 1,2 (This page s displayed only in start delay or timing start status)

Fig.1 In timing start

Fig.2 In start delay (▶ flashing)

Menu 2: Current temperature. See Fig. 3, 4 (Static »indicates itis recording.)

Fig.3 Current temperature
(No alarm occurred)

Fig.4 Current temperature (Alarmed)

Menu 3: Current record points. See Fig.5 (Static = indicates the current record points exceed the Max capacity and the data logger recorded circularly)

Fig.5 Current record points

Menu 4: Current record interval. See Fig 6 (e.g. if the digit N following the decimal point represents N*10 sec. Fig.6 shows the record interval i set to 12 min 50 sec))

Fig.6 Record interval

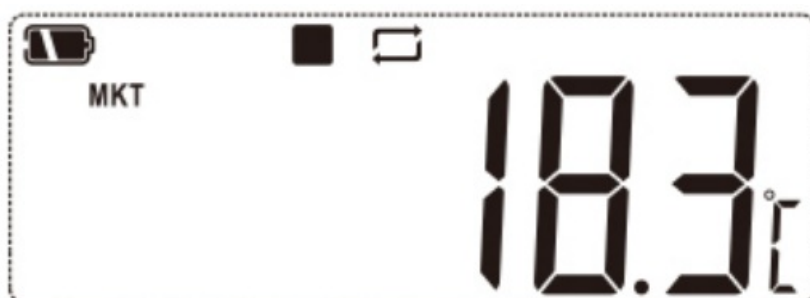Menu 5 MKT value. See Fig7 (Static ⊙indicates it stops recording)

Fig.7 MKT value

Menu 6: Average temperature value. See Fig8

Fig.8 Average temperature value

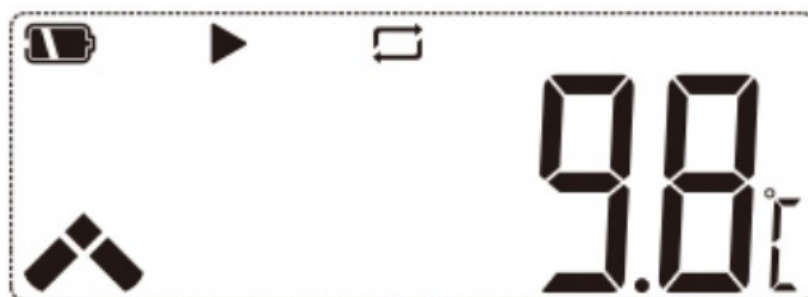Menu 7: Max temperature value. See Fig.9
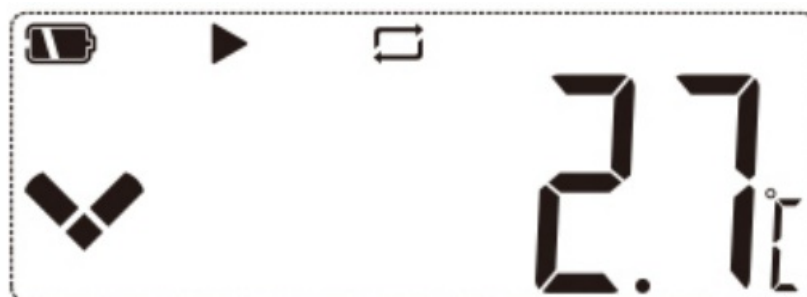
Fig.9 Max temperature value

Menu & Min temperature value. See Fig.10

Fig.10 Min temperature value

Menu 9,10,11: Set upper limit of temperature. See Fig.11,1213

Fig.11 Upper limit 3

Fig.12 Upper limit 2

Fig.13 Upper limit 1

Menu 12,13: Set lower limit of temperature. See Fig.14,15

Fig.14 Lower limit 1

Fig.15 Lower limit 2

Other status:

Fig.16 Deleting data

Fig.17 Recovering data (Power on)

Fig.18 Generating report
(the figure: process identifier)

Fig.19 USB connection

Content of AI report

The AI document varies based on the set alarm types.
Whenitissetto "noalarm" , there is no alarm info on the top right corer of the first page or color mark among data.
Whenitissetto "alarm" , relative alarm info appearsin the alarm info column based on the selected alarms. Over high temperature data is in red. Over low temperature data is in blue. Normal data is in black Ifalarm cases occur, there will be marked as alarm status on top right comerof the first page, otherwise, itis in normal status.

Finish view

Exit the data logger after viewing the report

Product diagram
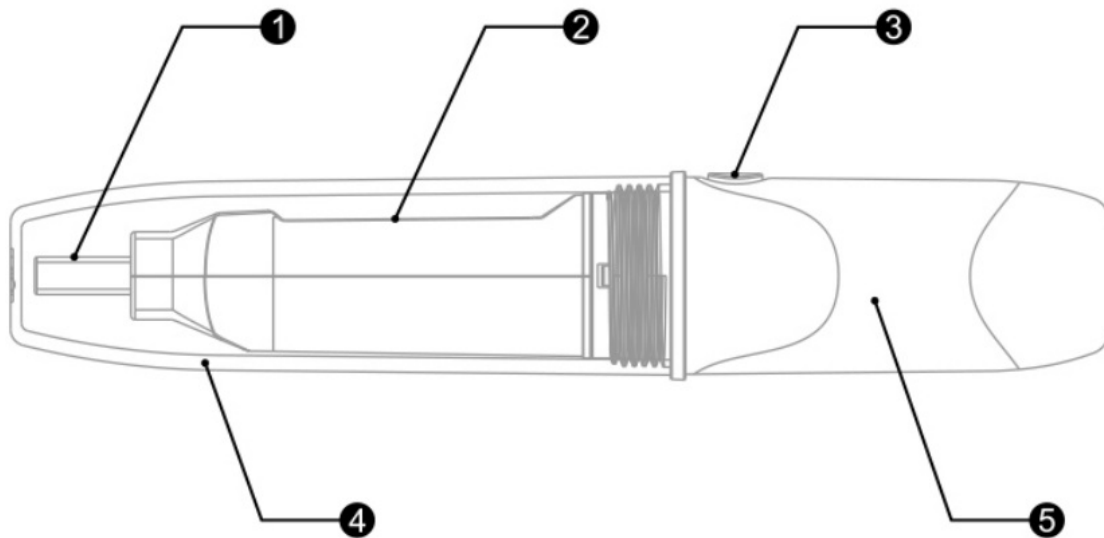
1	USB port
2	LCD screen
3	Button
4	Transparent cap
5	Battery compartment

Replace the battery

Step 1. Rotate the transparent cap and remove it in the direction shown in Fig.20.

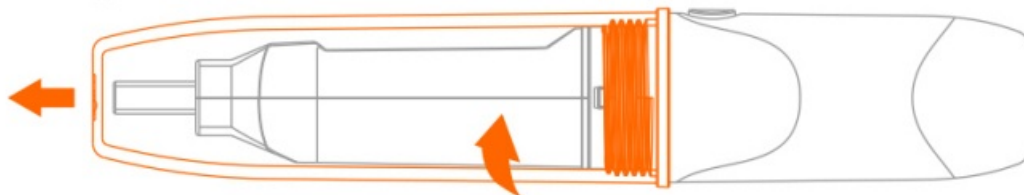

Fig.20Rotate the transparent cap and remove it in the direction

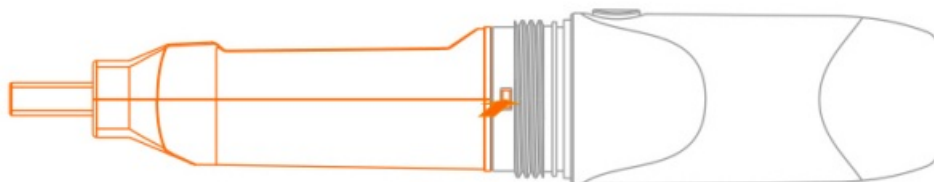Step 2. Press the snap to remove the compartment. See Fig 21

Fig.21Press the snap
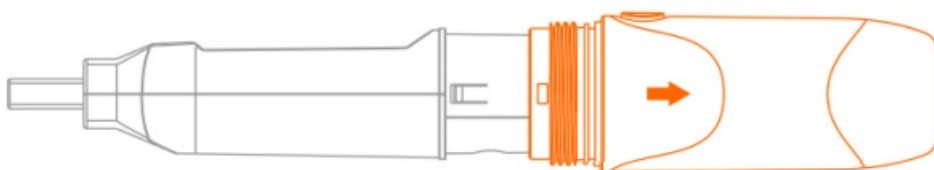
Step 3. Remove the battery compartment. See Fig.22

Fig.22 Remove the battery compartment

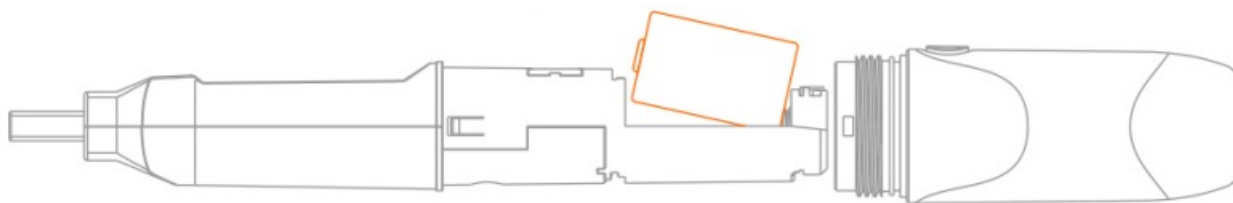Step 4. Install and replace the battery. See Fig.23

Fig.23Install and replace the battery

Step 5. Adjust the button and the intemal light pipe to the same side, snap the compartment shut. See Fig.24
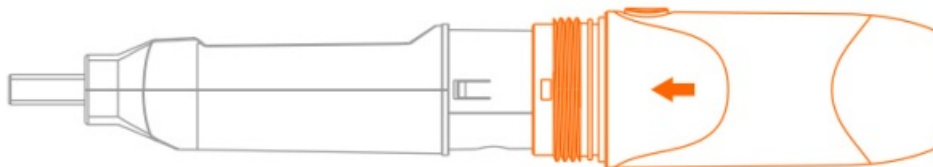
Fig.24Install Battery

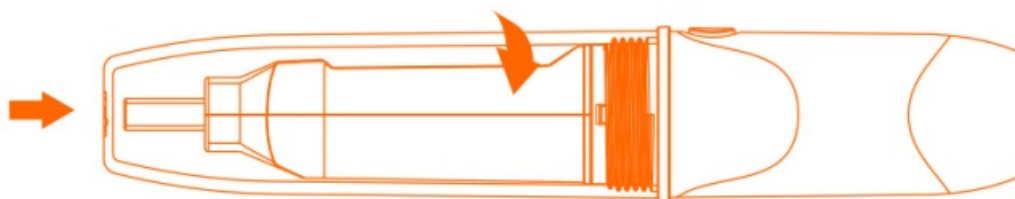Step 6. Rotate the transparent cap to install it in the direction shown in **Fig.25**

Fig.25Rotate the transparent cap

Notice:
Please replace the battery after shutting down the data logger.If not, it causes time disorder.
After replacing the battery, you need to configure parameters to calibrate the time.

Standard configuration

1 piece of RC-51 temperature data logger
1 piece of user manual

Documents / Resources

Elitech RC-51 Data Logger [pdf] User Manual
RC-51, RC-51 Data Logger, Data Logger, Logger

References

- ^{MH} **Search - Manual-Hub.com**