

Manual for RCW-360 Plus 4G/WiFi IoT Temperature and Humidity Monitor

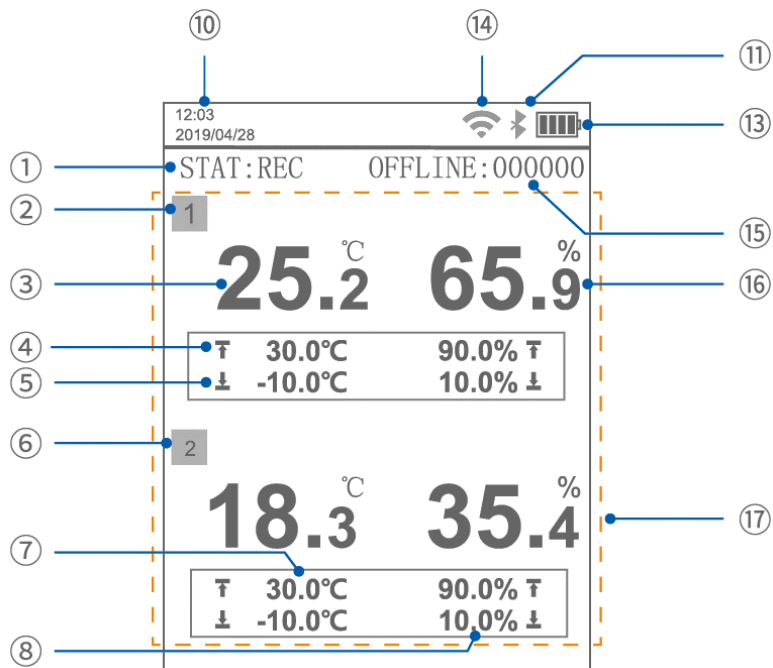
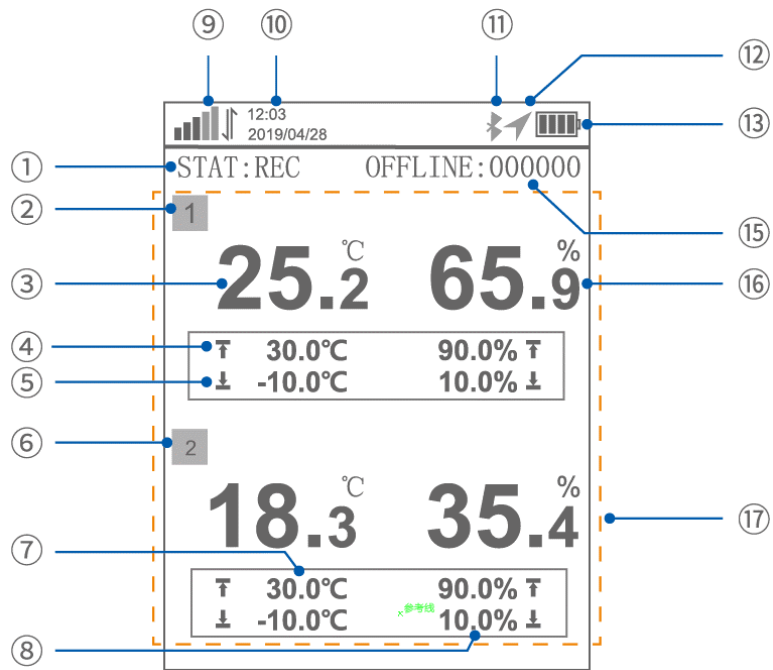
I. Overview

This product is a wireless Internet of Things monitor, providing such functions as real-time monitoring, alarm, data recording, data uploading, large screen display, etc. of temperature and humidity at monitoring points. Together with the "Elitech iCold" platform and APP, it can realize functions such as remote data viewing, historical data query, remote alarm push, equipment GPS positioning (4G version only), etc. It is widely used in food, medicine, catering, international warehousing and logistics industries.

1. Features

- The product is suitable for various occasions, including warehouse, refrigerated storage, refrigerator car, shade cabinet, medicine cabinet, refrigerator lab, etc;
- Compact size, fashionable appearance, magnetic card tray design, easy installation;
- Large TFT color screen display, rich in content;
- Built-in rechargeable lithium battery enables long-time real-time data upload after power cut;
- Built-in sound-light alarm device can realize local alarm;
- GPS positioning allows real-time tracking of the equipment location;
- Bluetooth printing function enables data printing and recording on site;
- Illumination intensity sensing function enables detection of the door up/close status to realize automatic screen-on/off;
- Multiple probe types available (see model selection list for details) ;

2. Interface



- ① Monitoring status
- ② Channel 1
- ③ Current temperature
- ④ Upper limit mark
- ⑤ Lower limit mark
- ⑥ Channel 2
- ⑦ Upper and lower alarm limits for temperature setting

- ⑧ Upper and lower alarm limits for humidity setting
- ⑨ Signal intensity
- ⑩ Time and date
- ⑪ Bluetooth icon ( : Bluetooth off  : Bluetooth on)
- ⑫ GPS icon ( : GPS off  : GPS on)
- ⑬ Power status icon ( : battery powered mode  : USB powered mode)
- ⑭ WIFI icon ()
- ⑮ The number of local data cache groups that have not yet been uploaded to network
- ⑯ Current humidity
- ⑰ Temperature and humidity display area (actual version and choice model shall prevail)

* When the temperature and humidity are higher than the upper limits, the values are in red;
When the temperature and humidity are lower than the lower limits, the values are in blue.

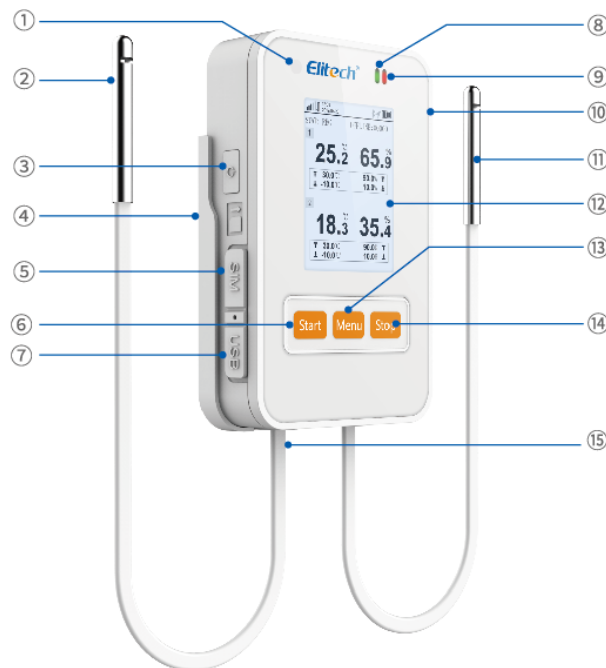


Figure: Gel bottle Sensor



Figure: The Aircraft Interface

- ① Photosensitive sensor
- ② External probe 1
- ③ On/off button
- ④ Magnetic card tray
- ⑤ SIM card interface
- ⑥ "Start" button
- ⑦ Charging interface
- ⑧ Charging indicator

- ⑨ Alarm status indicator
- ⑩ Built-in probe
- ⑪ External probe 2
- ⑫ Screen
- ⑬ "Menu" button
- ⑭ "Stop" button
- ⑮ External Probe Interface

3. Model Selection List

Probe type	Built-in		External			
Channel	1 temperature probe and 1 humidity probe	One temperature probe	1 temperature probe and 1 humidity probe	2 temperature probes and 2 humidity probes	Two temperature probes	One temperature probe
Measuring range	Temperature: -20℃~60℃ Humidity: 0%RH~100%RH	Temperature: -20℃~60℃	Temperature: -40℃~80℃ Humidity: 0%RH~100%RH	Temperature(Normal): -40℃~80℃ Temperature(Ultra-low): -200℃~150℃		
Sensor type	Digital temperature and humidity sensor, Digital temperature sensor, Gel bottle temperature sensor using aircraft head interface, Ultra low temperature sensor using aircraft head interface					
Measurement accuracy	(Normal) Temperature: ±0.5℃, Humidity: ±5%RH					
	(Ultra-low) ±0.3℃ (-20~40℃), ±0.5℃ (-50~85℃), ±1℃ (-100~150℃), ±2℃ (Others)					

Note: The specific sensor type is subject to the actual product.

II. Technical Specifications

- Power input: 5V/2A (DC)
- Temperature display resolution: 0.1℃
- Humidity display resolution: 0.1%RH
- Number of offline recording groups: 100,000
- Data storage mode: circular storage
- Record, upload interval and alarm interval
 - ① Normal recording interval: 1min~24H allowed
 - ② Alarm recording interval: 1min~24H allowed
 - ③ Normal upload interval: 1min~24H allowed, defaulted to 5min (normal upload interval must be greater than or equal to normal recording interval)
 - ④ Alarm upload interval: 1min~24H allowed, defaulted to 2min (alarm upload interval must be greater than or equal to alarm upload recording interval)
- Battery life:

Not less than 3 months (@25℃, upload interval: 30min, LBS positioning)

Not less than 14 days (@25℃, upload interval: 30min, LBS+GPS positioning)
- Indicator light: alarm indicator, charging indicator
- Screen: TFT color screen
- Communication mode: 4G
- Alarm modes: local alarm and cloud alarm
- Buttons: power on/off, start, menu, stop
- Support Bluetooth printing
- Support GPS and LBS positioning
- Waterproof grade: IP65 for built-in probe and IP64 for external probe
- Specification and dimension: 109*69.4*22.9mm

III. Operation Instructions

- **Charging**

Connect to the power adapter via USB cable.

When charging, the charging indicator flashes; When it is fully charged, the charging indicator is always on.

* The screen is normally on when the device is connected to the adapter.

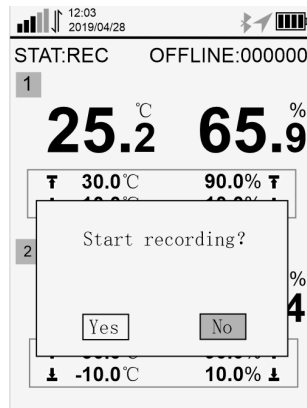
- **Power on/off**

Press the power on/off button for 3 seconds to turn the device on/off.

* It is not allowed to turn off when recording is in process.

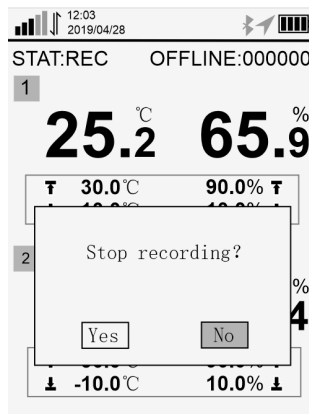
- **Start recording**

When the equipment is in unmonitored running state, press the "Start" button for 3 seconds; click the "Start" button in the pop-up box to click "Yes", and then click the "Menu" button to confirm the start.



- **Stop recording**

When the equipment is in monitored running state, press the "Stop" button for 3 seconds; click the "Start" button in the pop-up box to click "Yes", and then click the "Menu" button to confirm the stop.



- **Maximum, Minimum, Average View**

Click the "Menu" button to enter the maximum, minimum and average display page.

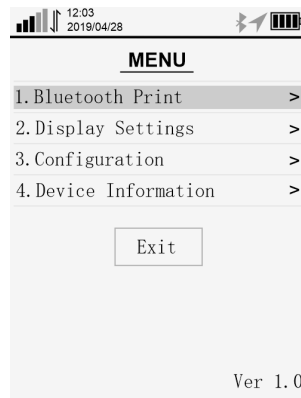
STAT:REC OFFLINE:000000		
1		
MAX	25.2℃	35.4%
MIN	25.2℃	35.4%
AVG	25.2℃	35.4%
↑	30.0℃	90.0% ↑
↓	-10.0℃	10.0% ↓
2		
MAX	25.2℃	35.4%
MIN	25.2℃	35.4%
AVG	25.2℃	35.4%
↑	30.0℃	90.0% ↑
↓	-10.0℃	10.0% ↓

● Menu

Press the "menu" button for 3 seconds to enter the main menu page.

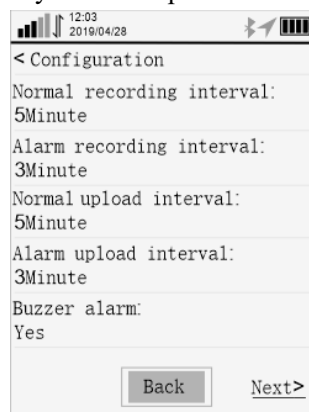
The functions of the buttons in the menu are as follows:

- "Menu" button: confirm/select
- "Start" button: switch up
- "Stop" button: switch down



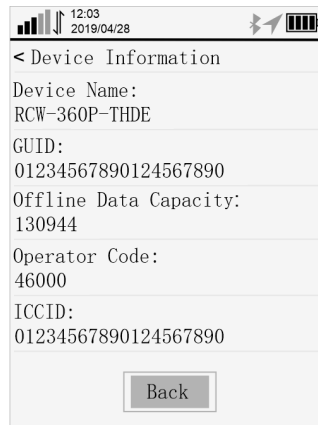
① View configuration information

Including: normal recording interval, alarm recording interval, normal uploading interval, alarm uploading interval, buzzer alarm on/off, GPS positioning on/off, temperature alarm delay, humidity alarm delay and other parameters.



② View device information

Including: device name, GUID, offline data capacity, operator logo, ICCID.



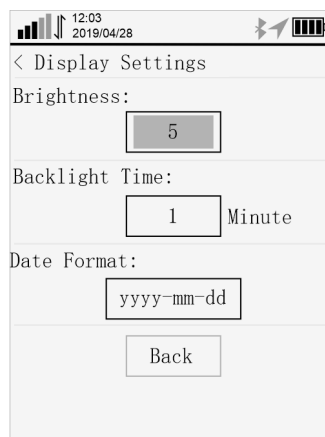
③ Display setting

Enter the "Display Settings" menu to set backlight brightness, backlight time and date format.

Brightness: 5 levels of brightness available, and 5 is the brightest.

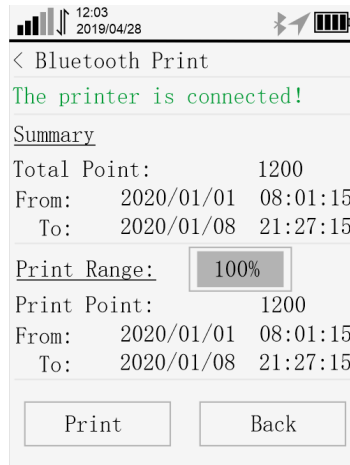
Backlight time: 4 options available, i.e. 1 min, 10 min, 30 min and normally on.

Date format: 3 options available, i.e. yyyy-mm-dd, dd-mm-yyyy, mm-dd-yyyy.



④ Print data

- Power on the Bluetooth printer to make the printer connectable;
- Select "Bluetooth printing" on the menu page to enter the Bluetooth printing interface;
- Wait for the printer to connect to the device and once connected, a prompt box of "the printer is connected" will pop up;
- Select the data to be printed to start printing.



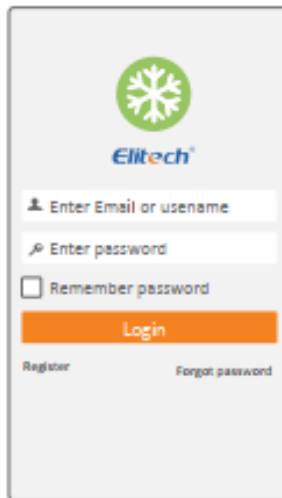
IV. Elitech iCold

Scan QR Code as below or search Elitech in App Store or Google play to download Elitech App.

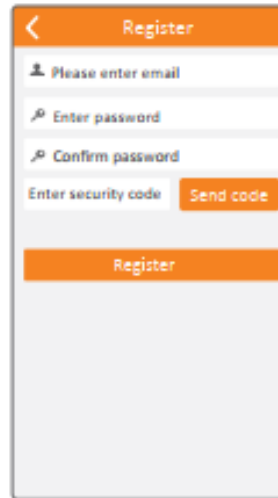


V. APP Login

(1) Login account. Remember to register for a new one if you do not have it or this is your first time to login.

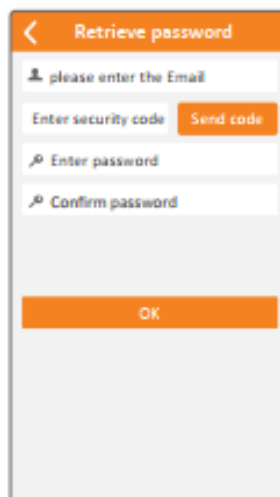


The login screen features the Elitech logo at the top. Below it are two input fields: 'Enter Email or username' and 'Enter password'. A checkbox labeled 'Remember password' is positioned below the password field. An orange 'Login' button is centered below the inputs. At the bottom, there are two links: 'Register' on the left and 'Forgot password' on the right.



The register screen has an orange header with a back arrow and the title 'Register'. It contains three input fields: 'Please enter email', 'Enter password', and 'Confirm password'. Below these is a field for 'Enter security code' with an orange 'Send code' button to its right. A large orange 'Register' button is at the bottom.

PS: If you forget the password, click 'Forgot password' to find password as shown in figure-3. According to the prompts to finish verification and find out password.



The 'Retrieve password' screen has an orange header with a back arrow and the title 'Retrieve password'. It starts with a 'please enter the Email' prompt and an input field. Below is a field for 'Enter security code' with an orange 'Send code' button. This is followed by 'Enter password' and 'Confirm password' input fields. An orange 'OK' button is at the bottom.

VI. Add Device

1. Click '+'



2. Click "", Scan the QR code back on the device



3. Click "Add", device added successfully.



VII. Elitech iCold Platform

For more functions, please log in Elitech iCold Platform: www.i-elitech.com.

VIII. Top-up

Free data & advanced platform service will be activated after the device be first time registered to Elitech platform. After the probation period, customers need to recharge the device by referring to operation manual.