RCW-360 Plus 4G/WIFI

USER MANUAL

APP Android

IOS APP

Elitech iCold Platform: **new.i-elitech.com**

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(4G version only);
- 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
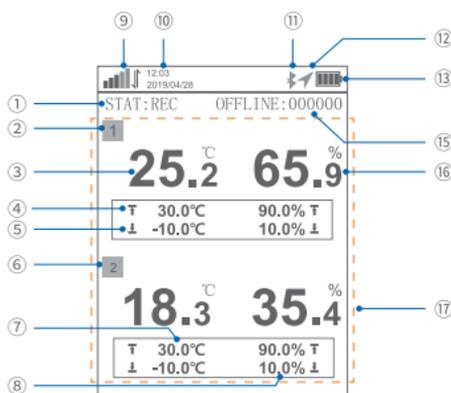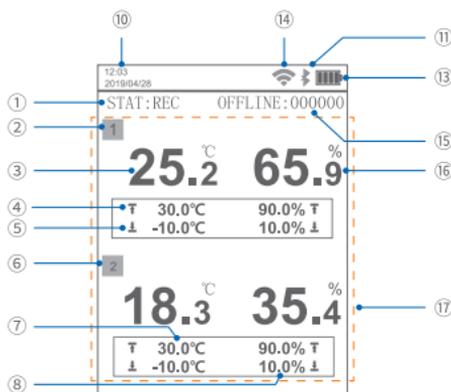
① Monitoring status	② Channel 1	③ Current temperature	④ Upper limit mark
⑤ Lower limit mark	⑥ Channel 2	⑦ Upper and lower alarm limits for temperature setting	
⑧ Upper and lower alarm limits for humidity setting			⑨ Signal intensity
⑩ Time and date	⑪ Bluetooth icon (⑂ : Bluetooth off ⑂ : Bluetooth on)		
⑫ GPS icon (◢ : GPS off ◢ : GPS on)			
⑬ Power status icon (▥ : battery powered mode ▨ : USB powered mode)			
⑭ WIFI icon(◉ :Connection Status (◉) : Configuration status)			
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 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.
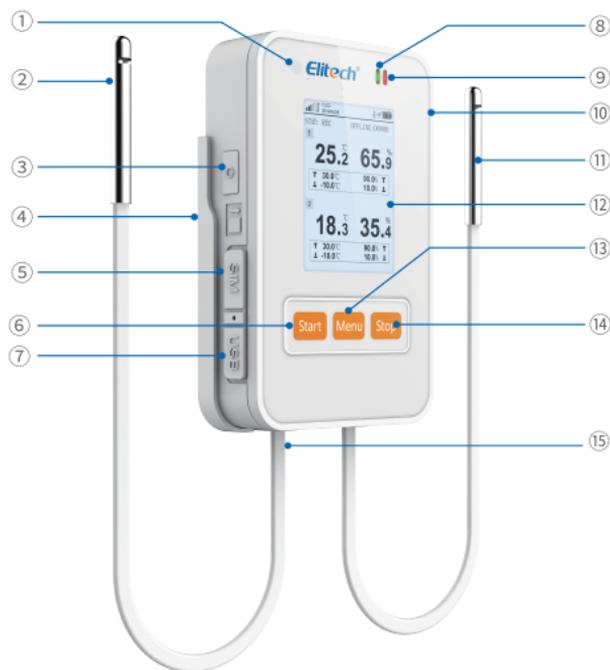

Figure: Gel bottle Sensor

Figure: The Aircraft Interface

① Photosensitive sensor	② External probe 1	③ On/off button
④ Magnetic card tray	⑤ SIM card interface(4G version only)	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 probes
Measuring range	Temperature: -20~60℃ Humidity: 0~100%RH	Temperature: -20~60℃	Temperature: -40~80℃ Humidity: 0~100%RH		Temperature (Normal): -40~80℃ Temperature (Ultralow): -196~150℃	
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					
	(Ultralow) ±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 Parameters

1. Power input: 5V/2A(DC)

2. Temperature display resolution: 0.1℃

3. Humidity display resolution: 0.1%RH

4. Number of offline recording groups: 100,000

5. Data storage mode: circular storage

6. Record, upload interval and alarm interval
① Normal recording interval: 1min~24H allowed
② Alarm recording interval: 1min~24H allowed （alarm recording interval must be less than or equal to normal recording interval）
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)

7. Battery life:
Not less than 3 months (@25°C, upload interval: 30min, LBS positioning, 4G version)
Not less than 14 days (@25°C, upload interval: 30min, LBS+GPS positioning, 4G version)
Not less than 4 months (@25℃, upload interval: 30min,WIFI version)

8. Indicator light: alarm indicator, charging indicator

9. Screen: TFT color screen

10. Communication mode: 4G/WIFI

11. Alarm modes: local alarm and cloud alarm

12. Buttons: power on/off, start, menu, stop

13. Support Bluetooth printing

**14. Support GPS and LBS positioning**(4G version only)

15. Waterproof grade: IP65 for built-in probe and IP64 for external probe

16. Specification and dimension: 109*69.4*22.9mm

III. Operation Instructions

1. Installing and removing the probe (Only aircraft head interface)

As shown in Figure, first align the aviation plug with the interface and insert it, then turn the screw clockwise to fix the probe. To disassemble, turn the screw counterclockwise and pull out the probe.

Remove   Install
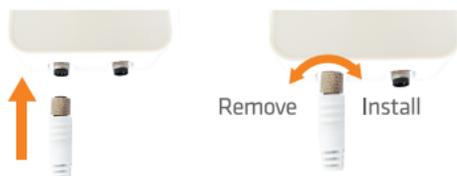
2.Charging

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.

3. 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.

4. 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.
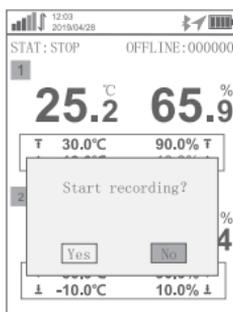
5. Stop recording

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.
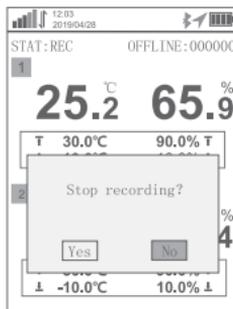
6. Maximum, Minimum, Average View

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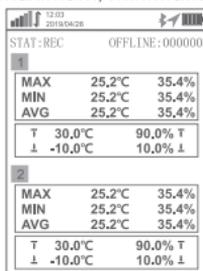
7. Menu

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.
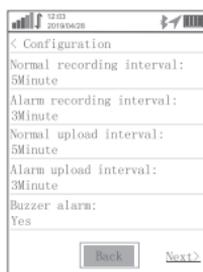
② **View device information**

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.
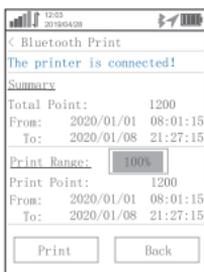
**8. Add device to the platform and operation. Please refer to IV Elitech iCold.**

IV. Elitech iCold

Please scan the QR code on the cover of the manual or search Elitech iCold in App Store or Google play to download Elitech App.

1. 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.

(2) After entering the APP, select "New".
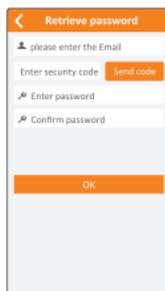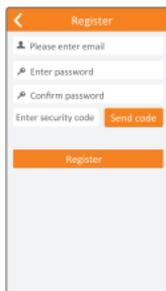
PS：If you forget the password, click "Forgot password" to find password as shown in figure-3. According to the prompts to finish verification and find out password.

2. Add Device

1. Click "➕" in the upper right corner
2. Click "🖨" in the upper right corner, scan the QR code or enter GUID back on the device, then fill in the device name and choose time zone.
3. Click " Add ", the device is added. If it is the wifi version, you also need to configure the wifi network, please refer to "**WiFi network configuration"**.
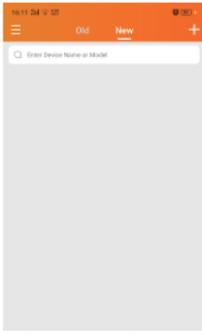
1
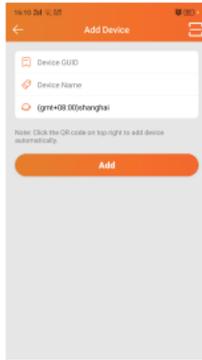
2

3

### WiFi network configuration (Only WiFi Version)

1) Connect your mobile phone with your preferred WiFi/WLAN network.
2) After the device is turned on. Refer to "**III-Menu**" description,enter the "**WIFI config**" page under the Menu bar, select the WIFI config mode to "**smartlink mode**", and press the Menu button to confirm.Wat for about 30 seconds for the icon " 〔(•)〕 " to be displayed at the top of the screen.
3) Refer to the above "**Add Device**" step to add the device to the platform of Elitech iCold. Then the APP pops up a wifi configuration prompt, as shown in Figure ①.
4) If the device wifi is not connected to the router, please click "OK" to enter the wifi configuration, otherwise click the "CANCEl" button. WiFi configuration network shown in Figure ①-④ steps. When the wifi configuration is successful,the icon " 📶 "will be displayed at the top of the screen. If the wifi configuration has timed out, please confirm whether the wifi password is correct and reconfigure
5) When the device needs to reconfigure WiFi,follow 1) and 2) first.Then open the "Device Information" page by clicking on the device on the APP, As shown in Figure ⑤.and Click the icon " 📶 "in the details page.Follow the ②-④ to completethe configuration.
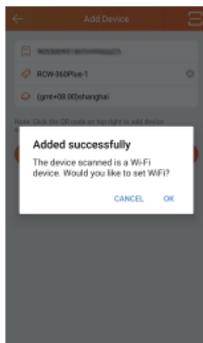
① Click "OK"
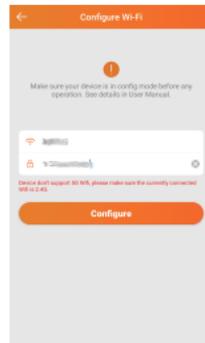
② Enter WiFi password and Click "Configure"
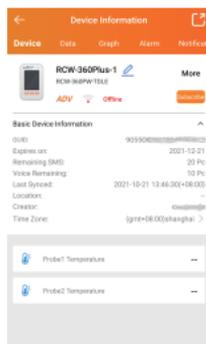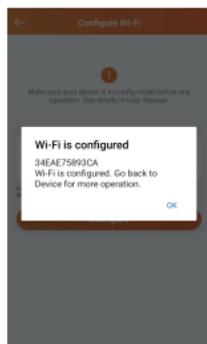
③ Wait for WiFi settings

④ Click "OK"

⑤ Device Information

3. Device Management

1) After the device has started recording and added to the platform, wait for the data to be uploaded, then display online. Start recording reference III-3.

2) If you want to make other configurations for the device, please enter the device information page, such as historical data, temperature unit, upper and lower alarm limits, upload record interval, etc. As shown in Figure ⑦-⑨.
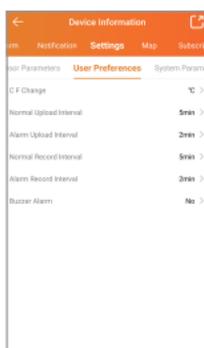
Note: After the device temperature unit is changed, it needs to be changed under user settings(More-Setting).
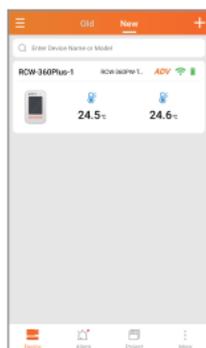
⑥ Online Data
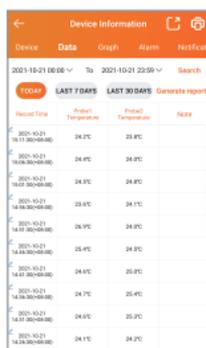
⑦ Historical data

⑧ Configurations

⑨ Temperature Unit

VII. Elitech iCold Platform

For more functions, please log in Elitech iCold Platform: **new.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.

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