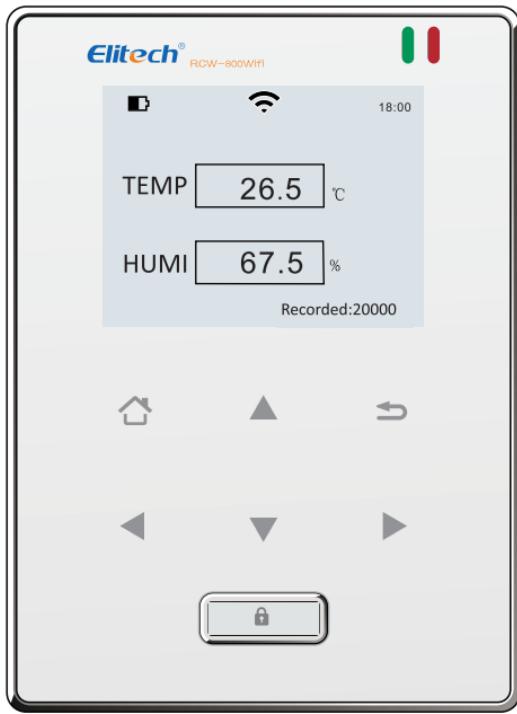


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User Manual

RCW-800WiFi

User Guide

1. Chapter I Product Introduction	2
1.1. Overview	2
1.2. Features and functions	2
2. Chapter II Technical parameters	2
3. Chapter III Instructions for Use	3
3.1. Operating guide	3
3.1.1. Product appearance	3
3.1.2. Button description	4
3.1.3. Indicator instruction	4
3.1.4. Interface instruction	4
3.1.5. Connect WiFi	7
3.2. Guide for cloud platform	8
3.2.1. Platform registration	8
3.2.2. Log in the platform	9
3.2.3. Add devices in the platform	10
3.2.4. Device parameter setting in platform	10
3.2.5. Create project in platform	12
3.2.6. Browse project function	13
4. Chapter IV Notice	14
5. Chapter V Accessories	14

Chapter I Product Introduction

1.1 Overview

Coldwatch safety monitor of temperature & humidity RCW-800WiFi is a high-tech product based on networking technology. It is widely used in foodstuffs, catering, logistics and industries that require HACCP system certification. It can transmit data by WiFi to our cold-chain cloud platform. Users can view, manage and monitor data online remotely by browser or smart phone APP. It also has functions of alarm reminder via the platform and buzzer.

Coldwatch RCW-800WiFi has one temperature sensor and one humidity sensor. With a built-in rechargeable lithium battery, it can provide real-time data uploading and platform alarm service even in case of cold storage power outage.

1.2 Features and functions

- ◆ The probe has high sensitivity and reacts quickly.
- ◆ Keep running for at least 6 hours after power supply is disconnected.
- ◆ Set alarm threshold values and alarm reminder. The LED indicator will flash and buzzer will beep in case it is beyond the threshold values.
- ◆ Set uploading interval and control data records freely.
- ◆ Record 20000 points of data, with no data storage limit in server.
- ◆ Connect WiFi access point, collect data and upload real-time data to the cloud platform.
- ◆ Export data flexibly in multiple formats via the cloud platform.

Chapter II Technical parameters

- ◆ Power supply: 5V/1A(DC);
- ◆ Temperature measuring range: -40°C ~ 80°C ;
- ◆ Temperature accuracy: ± 0.5°C (-20°C ~ 40°C); ± 1°C (others);
- ◆ Temperature resolution: 0.1°C ;
- ◆ Temperature sensor type: NTC;
- ◆ Humidity measuring range: 10~95%RH;
- ◆ Humidity accuracy: ±5%RH;
- ◆ Humidity resolution: 0.1%RH;
- ◆ Humidity sensor type: Honeywell;
- ◆ Data uploading interval: 1 min to 24 hours;
- ◆ Off-line record capacity: 20,000 points;
- ◆ Alarm output: LED indicator, buzzer, platform reminder;

Coldwatch-Remote Temperature and Humidity Alarm Monitor

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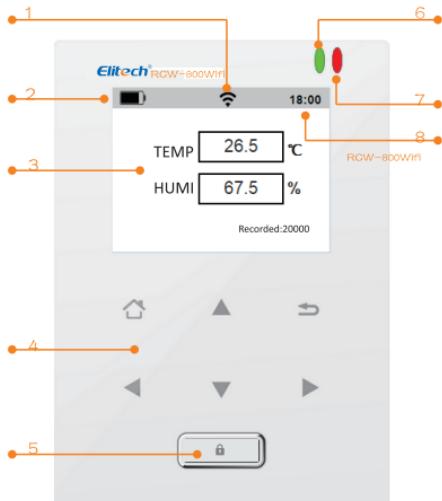
- Communication port: WiFi;
- Standby battery: 3.7V 1100mAH lithium battery.

Chapter III Instructions for Use

3.1 Operating guide

3.1.1 Product appearance:

1	WiFi
2	Battery level
3	Display area
4	Touch buttons
5	Screen lock button
6	Power indicator
7	Alarm indicator
8	Current time



3.1.2 Button description

1) Touch buttons:

- : enter the menu and confirm what is selected.
- : shift up/down to select the desired item. The items can be displayed circularly.
- : shift left/right to modify parameters. The parameters can be displayed circularly.
- : exit the current interface and return to last interface.

2) Screen lock button:

Press the screen lock button, the screen will light up or black out.

3)On/Off button:

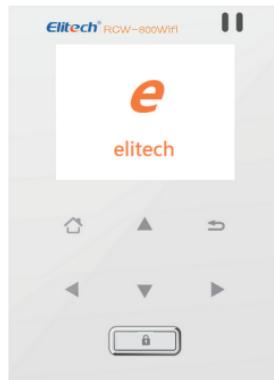
Slide the toggle switch to turn on/off the device.

4)Reset button:

Press the button for 4 seconds, the WiFi access point resets to factory default and users can reconnect the WiFi.

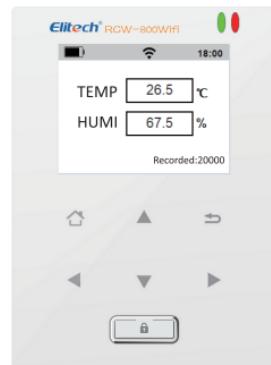
3.1.3 Indicator instruction:

- 1)Power indicator:** It is normally on (green) when external power supply is connected. It is off when powered by battery with no external power supply.
- 2)Alarm indicator:** It is off in normal status. It turns red and flashes once every one second in case of over limit alarm.

3.1.4 interface instruction:**1) Start-up picture:**

On /Off:

1. Slide the On/Off button on the back of the device, and the device is on and displays start-up picture. Slide the button again to power off the device.

2)Maininterface

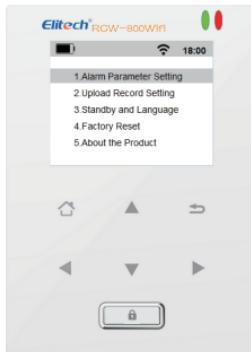
1. When switched on, it skip the start-up picture and enters the main interface automatically.
2. Press □ to enter the main interface for parameter settings.

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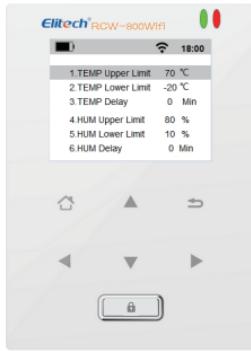
RCW-800Wifi

3)Parameter settings interface



- 1.Press **▲** and **▼** to switch between menu items.
- 2.Press **⌂** to enter the interface of the selected menu item.
- 3.Press **⬅** to return to the main interface.
- 4.There is no response to press **⬅** or **➡** .

4)Set alarm parameters:



- 1.Temperature alarm range: -40°C ~70°C; humidity alarm range: 10%~95%.
- 2.Press **▲** and **▼** to switch between parameter items.
- 3.Press **◀** and **▶** to modify the parameter value of the selected item.
- 4.Press **⬅** to save the parameter and return to parameter settings interface.

5)Data transmission:



- 1.It includes two values, open and close. Default: open.
- 2.Date uploading interval: parameter range: 1~60 min. Default: 1 min. Log in the cloud platform to set the uploading interval if it is beyond 60 min. The maximum value is 24 hour. If the uploading interval value is set longer than 60 min, the interface will display 60 when it is modified by pressing the button.
- 3.Press **▲** and **▼** to switch between parameter items.
- 4.Press **◀** and **▶** to modify the parameter value of the selected item.
- 5.Press **⬅** to save the parameter and return to parameter settings interface.
- 6.There is no response to press **⌂** .

6) Screen standby and language selection



1. Select language: It includes two values: Chinese and English.
Default: English.
2. Screen standby: Three modes are available: 1 min, 5 min and off.
3. Press **▲** and **▼** to switch between parameter items.
4. Press **◀** and **▶** to modify the parameter value of the selected item.
5. Press **→** to save the parameter and return to parameter settings interface.
6. There is no response to press **Home**.

7) Reset to defaults



1. It includes two values: yes and no.
2. There is no response to press **▲** or **▼**.
3. Press **◀** and **▶** to modify the parameter value of the selected item.
4. When the value is set to "yes", press **Home** to pop up the interface "whether to reset to defaults". Press **Home**, the device will restart and reset to defaults. Press **→** to return to the interface of reset to defaults setting. When the value is set to "no", there is no response to press **Home**. Press **→** to return to the interface of reset to defaults setting.

8) About the device



1. Press **▲** and **▼** to switch between parameter items.
2. There is no response to press **◀** or **▶**.
3. There is no response to press **Home**.
4. Press **→** to return to parameter settings interface.

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3.1.5 Connect WiFi:

1) When the device is used for the first time,

a) Use one PC with a WLAN card to search the SSID of the device (the WiFi name of the device) and click to connect. Use the administrative web page for configuration.

Default parameters are as follows:

Parameter	Default settings	Remarks
SSID	800WIFI000000	00000X is the last five figures of the device ID.
IP address	192.168.2.1	
Subnet mask	255.255.255.0	
User name	admin	
User name	admin	

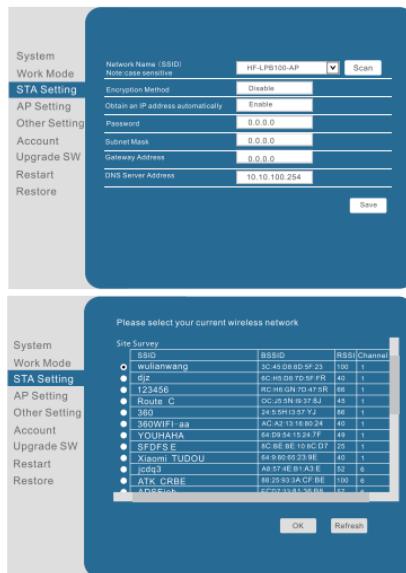
b) Open the browser and type in 192.168.2.1 in the address bar and enter. Type in correct user name and password in the dialog box that pops up and enter the administrative page.



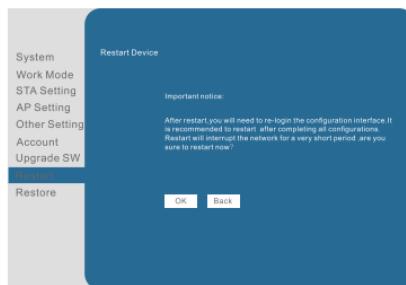
c) Enter “mode setting” menu and modify the configuration as follows. Select “STA” and save.



d) Enter “STA setting” menu and click “search”. Select the WLAN to be connected in the AP list, click “OK” and type in the password of the wireless router.



e) Enter “restart” menu after setting all the parameters, click “OK” to wait for the restart.



3.2 Guide for cloud platform

3.2.1 Platform registration

Please visit:

Step 1: Register account

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RCW-800Wifi

The image shows a login interface with a green diagonal 'LOGIN' banner. It includes fields for Username, Password, and Checkcode, along with 'Login' and 'Register' buttons.

Username :

Password :

Checkcode : D37Q

Login Register

Step 2: Submit information

The image shows a form for submitting company information. Fields include Company Name, Company address, Company type, Username, Password, Confirm Password, and Telephone. A 'Return' and 'Register' button are at the bottom.

Company Name : Jing chuang Electric Co.,ltd*

Company address : Chinese mainland Jiangsu Xuzhou No. 1 Mount Huangshan Road

Company type : Cold Storage

Username : admin*

Password : ******

Confirm Password : ******

Telephone : 18181301827

Return Register

3.2.2

Step 3: Log in the platform

The image shows a login interface for the platform. It includes fields for Username, Password, and Checkcode, along with 'Login' and 'Register' buttons.

Username : admin

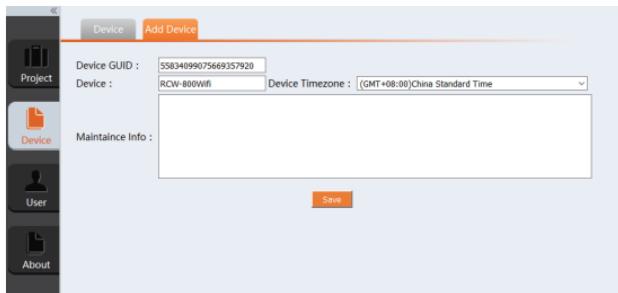
Password : *****

Checkcode : tfjy TFJY

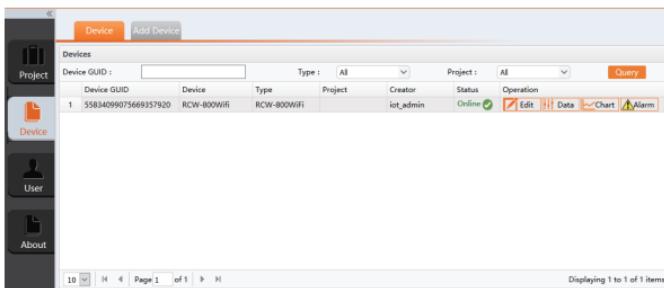
Login Register

3.2.3 Add devices in the platform

Step 4: Add device ID in the platform (Device ID is labeled in the left side and can be viewed on “About the device” interface.)

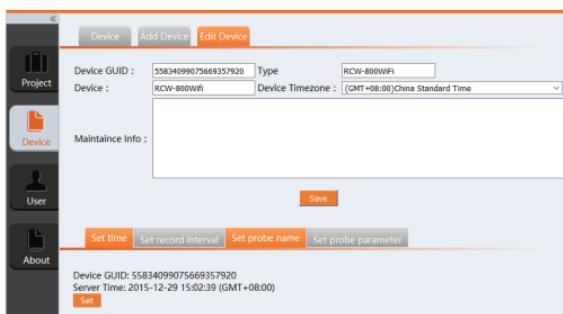


Step 5: After adding devices, in the status column, it displays the status of “online activated”, then click “Edit” to set the device parameters.



3.2.4 Device parameter setting in platform

Step 6: Set the time of the device and synchronize the time.

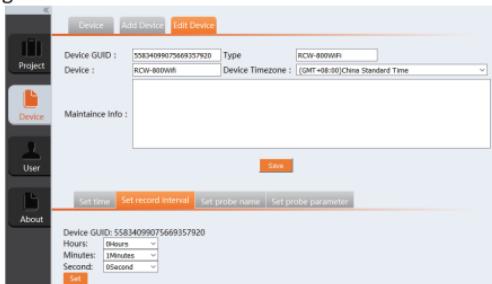


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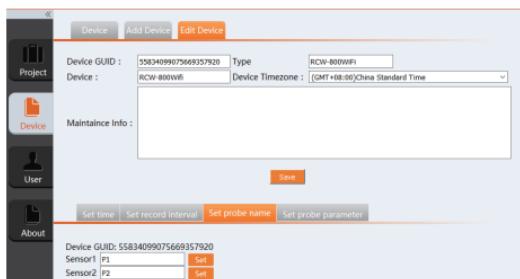
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Step 7: Set record interval—if the device keeps offline for a long time (for example, no credit in SIM card), it is suggested setting a long record interval in order to record data in a long term.

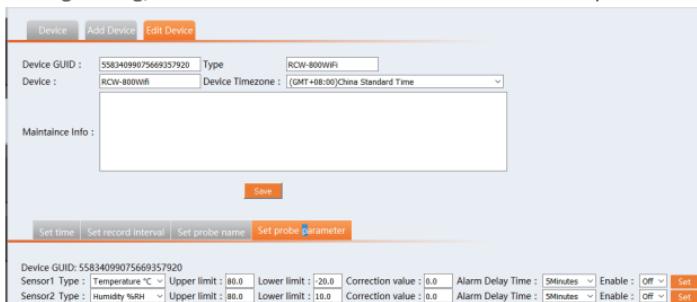


Step 8: Set probe name



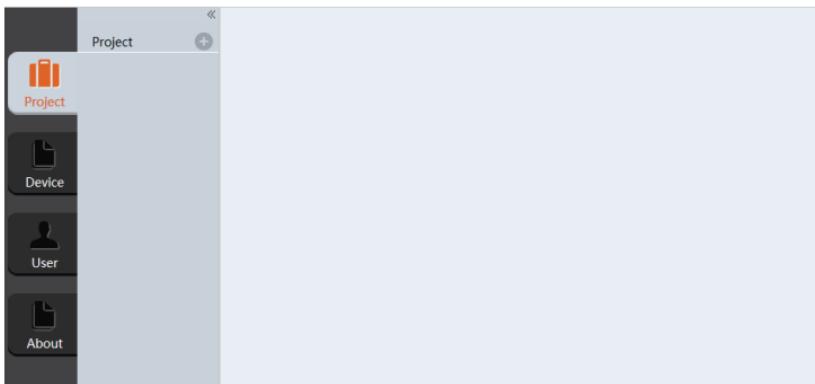
Step 9: Set probe parameters

1. Set upper/lower limit of probes
2. Modify the deviation of temperature and humidity. This function is only available for administer. For common users, it is invisible.
3. Alarm delay time; unit is minute.
4. After finishing setting, check “Enable” and then click “SET” to finish probe settings.



3.2.5 Create project in platform

Step 13: Create project



Step 14: Edit project information

1. Edit the name of project, the type of project, and storage volume (cold storage volume).
2. It displays all added devices in the column of "Select devices". Select certain device (such as medical cold storage shown in the following figure), and click "Add" button, then it will appear in the column of "selected devices". Click "Save" to finish project creating.

In the figure below, it has created a medicine project, which uses medical cold storage device.

Add Project

Name :	<input type="text" value="cold storage"/>
Type :	<input type="text" value="Cold Storage"/> Storage capability : <input type="text" value="200"/>
Address :	<input type="text" value="No. 1 Mount Huangshan Road"/>
Remark :	<input type="text"/>

Select device

Selected device

RCW-800Wifi

Add selected >
< Remove selected
Add all >>
<< Remove all

Save

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3.2.6 Browse project function

Step 15: Device overview—display device list in the format of squares.

The screenshot shows a user interface for monitoring a single device. At the top, there are tabs for 'Monitor' (highlighted in orange), 'Project', 'Devices', and 'Map'. Below the tabs, there is a 'Refresh in 5 minutes' button. The main content area displays the following device information:

GUID:	55834099075669357920
Device:	RCW-800Wifi
Type:	RCW-800Wifi
Creator:	iot_admin
Status:	Online ✓ Active
Record Time:	12/29/2015 16:06:35

Below the device info, two sensor readings are shown in blue boxes:

P1	22.4°C
P2	36.1%RH

Step 16: Project information—display the basic project information and alarm list information.

The screenshot shows a 'Project' view with tabs for 'Monitor', 'Project' (highlighted in orange), 'Devices', and 'Map'. The main content area is titled 'Base info' and contains the following project details:

Name:	Cold Storage	Address:	No. 1 Mount Huangshan Road
Type:	Cold Storage	Storage capability:	200
Creator:	iot_admin	Creation time:	12/29/2015 15:49:40

Below the details is a 'Remark:' field and two buttons: 'Modify' and 'Delete'.

Step 17: Data record—display the recorded data and diagram of the device.

The screenshot shows a 'Devices' view with tabs for 'Monitor', 'Project', 'Devices' (highlighted in orange), and 'Map'. The main content area displays a table of device records:

Device GUID	Device	Type	Project	Creator	Status	Operation	Query
1 55834099075669357920	RCW-800Wifi	RCW-800Wifi	Cold Storage	iot_admin	Online ✓	Data Chart Alarm	Query

At the bottom, there are pagination controls: '10' (dropdown), 'H < Page 1 of 1 > H' (dropdown), and 'Displaying 1 to 1 of 1 items'.

Chapter IV Notice

- 1.Only one PC with WLAN card can be used to connect the hotspot when setting WiFi hotspot. It is not allowed to use two or more PC to set.
- 2.If the hotspot cannot be connected, please close the antivirus software.
- 3.Try to keep the site spacious to reduce barrier that may weaken the signal.

Chapter V Accessories

One RCW_800WiFi
One temperature-humidity sensor
One power adapter (5V/1A)
One user manual

Elite of technology

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