

RCW-2000/2100/2200

USER MANUAL

Elitech cloud login: www.i-elitech.com



iOS APP
Scan the QR code or
download on the App Store



Android APP
Scan the QR code or
download on the Google play

Overview

The wireless temperature and humidity monitor system uses advanced LoRa communication technology and is consists of the wireless temperature and humidity sensors RCW-2100/2200, the wireless gateway RCW-2000WiFi, Elitech app and Cloud platform etc.

By networking these products with various transmission methods of LoRa/Wi-Fi and combinations of Elitech app and cloud platform, the system allows users to not only view the real-time data remotely but also view historical data and graphs, export data reports, analyze data and etc.

Technical Specification

RCW-2000 (Wi-Fi versions)

- ◆ Power supply: 12V/2.5A(DC)
- ◆ Communication mode: Wi-Fi
- ◆ Alarm mode: LCD indicator, buzzer, SMS and APP notification
- ◆ Maximum transmission distance: 1km at open space
- ◆ Battery: Rechargeable lithium battery(5,000mAh capacity)
- ◆ Maximum sensors loading number:
 - 12 Wireless sensors (uploading intervals under 5 minutes)
 - 55 Wireless sensors (uploading intervals over 5 minutes)

RCW-2100

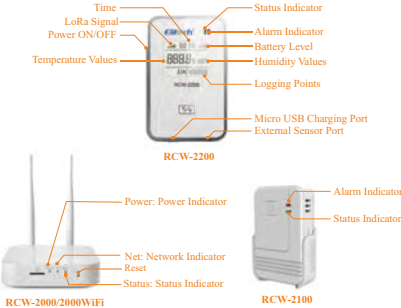
- ◆ Measurement range: Temperature: -20°C~65°C; Humidity: 10%RH~100%RH
- ◆ Accuracy: Temperature: $\pm 0.5^{\circ}\text{C}$; Humidity: $\pm 5\%\text{RH}$
- ◆ Memory capacity: 20,000 recording points
- ◆ Record interval: 1 minute to 24 hours
- ◆ Uploading mode: LoRa
- ◆ Battery: Two ER14335 lithium batteries (non-rechargeable)
- ◆ Durations: Up to 1 year (uploading interval under 10 minutes) (@25°C)
- ◆ Protection level: IP65
- ◆ Operating frequency: 470~510/868~915 MHz ISM band

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RCW-2200

- ◆ Measurement range: Temperature: -30°C~65°C (SHT30), -150°C~150°C(PT100); Humidity: 10%RH~100%RH
- ◆ Accuracy: Temperature: $\pm 0.5^{\circ}\text{C}$; Humidity: $\pm 5\%\text{RH}$
- ◆ Memory capacity: 20,000 recording points
- ◆ Record interval: 1 minute to 24 hours
- ◆ Uploading mode: LoRa
- ◆ Battery: Rechargeable Lithium batteries
- ◆ Durations: Up to 1 year (fully charged, uploading interval under 3 minutes) (@25°C)
- ◆ Protection level: IP64
- ◆ Operating frequency: 470~510/868~915 MHz ISM band

Appearance



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Indicator Status

RCW-2000 (Wireless Gateway)

- (1) **Power (Power Indicator):**
Power ON: Solid green light;
Power OFF: Light off completely.
- (2) **Net (Network Indicator):**
Wi-Fi connected: Green LED light always on.
- (3) **Status (Status Indicator):**
Normal status: Green LED light blinks once per second;
Data uploaded: Green LED light continues to blink quickly.

RCW-2100/2200 (wireless sensor)

- (1) **Status Indicator:**
Online: Green LED light blinks once every 5 seconds;
Offline: Green LED light blinks twice every seconds.
- (2) **Alarm Indicator:**
Low battery: Red LED blinks twice every second.
Over limits: Red LED blinks once every minute (over temperature or humidity thresholds).
- (3) **Optional GPS Function*:**
Collect GPS information to realize GPS locating (outdoors only).
*Please contact us if you need this optional function.

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Elitech App

1.0 Download:

Please scan the QR code below or search Elitech on App Store or Google Play to download Elitech app.



iOS APP
Scan the QR code or
download on the App Store



Android APP
Scan the QR code or
download on the Google play

2.0 Login:

Click "Register now" to enter registration page. After finishing registration, please enter your username and password to login to your account.



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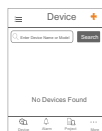


Operation

1.0 The Gateway RCW 2000WIFI

- Please follow the steps below to add and configure the gateway.
- Match the provided two antennae with gateway's antennae ports and install them correctly.
 - Plug RCW 2000Wi-Fi into a power outlet by using the provided power cord.
 - Press the power button on the side of the gateway to turn it on.
 - Use a pin or stick to press "Reset" hole to make sure it entered configuration mode.
 - Open Elitech app and follow the steps below to add the Gateway to Elitech app.

① Click "+" first.



③ Type in device name, select time zone and click "Add".



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② Click "+" and scan the QR code on the back of the device.



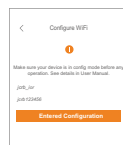
④ "Added Successfully" will show. Please click "OK" to continue.



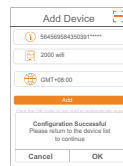
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- f. Please connect your mobile phone to your preferred Wi-Fi network first. Then follow the steps below to connect the gateway to Wi-Fi Network.
Note: If the Wi-Fi names shows on the configuration page is not your desired Wi-Fi, please reconnect your mobile phone to your desired Wi-Fi network and repeat this step.

⑤ The Wi-Fi's name will be filled automatically on the "Configure Wi-Fi" page. Please type in the correct Wi-Fi password and click "Enter Configuration" button for next step.



⑥ When page shows "Configuration Successful". Please click OK to finish all configuration of the gateway.



2.0 The Wireless Sensor RCW-2100/2200

Before you begin, please check if your gateway RCW-2000 is working normally. Then open Elitech app.

a. Follow the steps below to add your sensor(s) to your account via Elitech app.

- Click "+" first.
- Click "+" and scan the QR code on the back of the device.
- Click "Add" to add sensor to your account.



b. Turn on sensor RCW-2100/2200 as shown below. Then sensor will automatically search and connect to any nearby or available gateway. Once it has been connected, sensor(s) will start uploading the real-time data automatically based on your setted uploading intervals.



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Elitech Cloud

1.0 Login Cloud Portal

Please type in the URL <http://www.i-elitech.com> to login for more operation. Click 'Help' to obtain cloud and app operation instructions.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

FCC ID: 2ATVW-RCW-2000

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