Elitech®
Elite of technology

RCW-2000/2100/2200
USER MANUAL

Elitech cloud login: www.i-elitech.com

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)
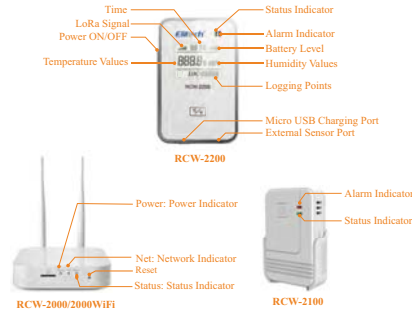   55 Wireless sensors (uploading intervals over 5 minutes)

RCW-2100
◆ Measurement range: Temperature: -20°C~65°C; Humidity: 10%RH~100%RH
◆ Accuracy: Temperature: ±0.5°C; Humidity: ±5%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: ±0.5°C; Humidity: ±5%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

Time
LoRa Signal
Power ON/OFF
Temperature Values
Status Indicator
Alarm Indicator
Battery Level
Humidity Values
Logging Points
Micro USB Charging Port
External Sensor Port

RCW-2200

Power: Power Indicator
Net: Network Indicator
Reset
Status: Status Indicator

RCW-2000/2000WiFi

Alarm Indicator
Status Indicator

RCW-2100

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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.

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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RCW-2000

RCW-2200   RCW-2100

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Operation

1.0 The Gateway RCW 2000WiFi

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

① Click " **+** " first.

Device

No Devices Found

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

Add Device

Device GUID
Device Name
GMT+08:00

Add

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

Add Device

564569584300391******
2000 wifi
GMT+08:00

Add

Cancel   OK
(GMT-09:00) Anchorage
(GMT-07:00) Los Angeles
(GMT-07:00) Tijuana
(GMT-07:00) Phoenix

④ "Added Succesfully" will shows. Please click "OK" to continue.

Add Device

564569584300391******
2000 wifi
GMT+08:00

Add

Added successfully
The device scanned is a Wi-Fi device. Would you like to set WiFi

Cancel   OK

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f. Please connect your mobile phone to your prefered 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.

Configure WiFi

Make sure your device is in config mode before any operation. See details in User Manual.

_joril_oir_
jcub123456

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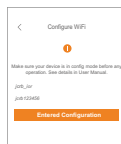
⑥ When page shows "Configuration Successful". Please click OK to finish all configuration of the gateway.

Add Device

564569584350391******
2000 wifi
GMT+06:00

Add

Configuration Successful
Please return to the device list to continue

Cancel   OK

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.

① Click " **+** " first.

Device

No Devices Found

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

Add Device

Device GUID
Device Name
GMT+08:00

Add

③ Click "Add" to add sensor to your account.


Add Device

796569584300391******
2100
GMT+08:00

Add

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.

Press 3 seconds to turn on sensor

Press 3 seconds to turn on sensor

RCW-2100   **RCW-2200**
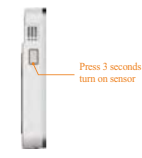
Elitech Cloud

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.