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Elitech RCW-800W-TDE

Elitech RCW-800W-TDE WiFi Digital Temperature Data Logger Instruction Manual

Model: RCW-800W-TDE | Brand: Elitech

Introduction	What's in the Box	Features	Product Overview	Setup	Operation	Maintenance
		Troubleshooting	Specifications	Support		

1. INTRODUCTION

The Elitech RCW-800W-TDE is a WiFi digital temperature data logger designed for remote real-time monitoring. It features dual external probes, cloud storage capabilities, and provides alerts via app and email. This device supports both 2.4GHz and 5GHz WiFi networks, offering stable and reliable connectivity for various monitoring applications.

2. WHAT'S IN THE BOX

Upon opening the package, you should find the following items:

- Data Logger (RCW-800W-TDE)
- Calibration Certificate
- User Manual
- Dual External Temperature Probes (16.4ft)

3. PRODUCT FEATURES

- **Stable Network Connection:** Supports 2.4GHz and 5GHz WiFi for easy setup and reliable remote real-time temperature monitoring via App and Web.
- **Dual External Probes with Calibration:** Includes a Calibration Certificate for precision accuracy. Monitors temperatures from -40°F to 176°F (-40°C to 80°C) with dual external sensors.
- **Settable Alarms & Parameters:** Customize temperature units, recording intervals, and upload

frequency. Features audible and visual alerts for timely abnormal case detection.

- **Rechargeable Lithium Battery:** Built-in battery provides backup power for no less than 7 days during outages at 25°C with 5-minute upload intervals.
- **Easy to Install:** Features built-in magnets for direct adsorption on metal surfaces or drill holes for fixed mounting in various environments.

4. PRODUCT OVERVIEW

The Elitech RCW-800W-TDE data logger is designed for precise temperature monitoring. Below are key components and their functions.

The graphic features an orange header with the Elitech logo and the slogan "Innovation Preceding All". Below the header, the text "2 Distribution Network Method" is displayed in large orange font, followed by "Access from anywhere with our mobile APP and cloud platform." in black. The central part of the graphic shows a smartphone displaying the Elitech mobile application interface, which includes a "Device Information" screen with tabs for "Device", "Data", "Graph", "Alarm", and "Notif". The "Graph" tab is active, showing two line graphs for "Probe 1" and "Probe 2" with a temperature scale from 12.0°C to 28.0°C. To the left of the smartphone is a "WiFi Configuration" section with a Wi-Fi icon and a front view of the data logger showing a temperature of 11.2°C and 11.7°C. To the right is a "Bluetooth Configuration" section with a Bluetooth icon and another front view of the data logger showing a temperature of 11.2°C and 11.2°C. The data logger device is a white rectangular unit with a screen and several physical buttons.

Figure 1: Front and Rear View of the RCW-800W-TDE Data Logger with labeled components.

1. **Home Key:** Navigates to the main display.
2. **Celsius or Fahrenheit Switch:** Toggles temperature unit.
3. **Monitoring Start or Stop:** Initiates or halts data logging.
4. **Buzzer On or Off:** Controls audible alarm.
5. **Reset button:** Resets the device (located on the back).
6. **Power Switch:** Turns the device on/off (located on the back).
7. **Temp Sensor 5M * 2:** Dual external temperature sensors.

Real Time Data Upload

Access from anywhere with our mobile APP and cloud platform.

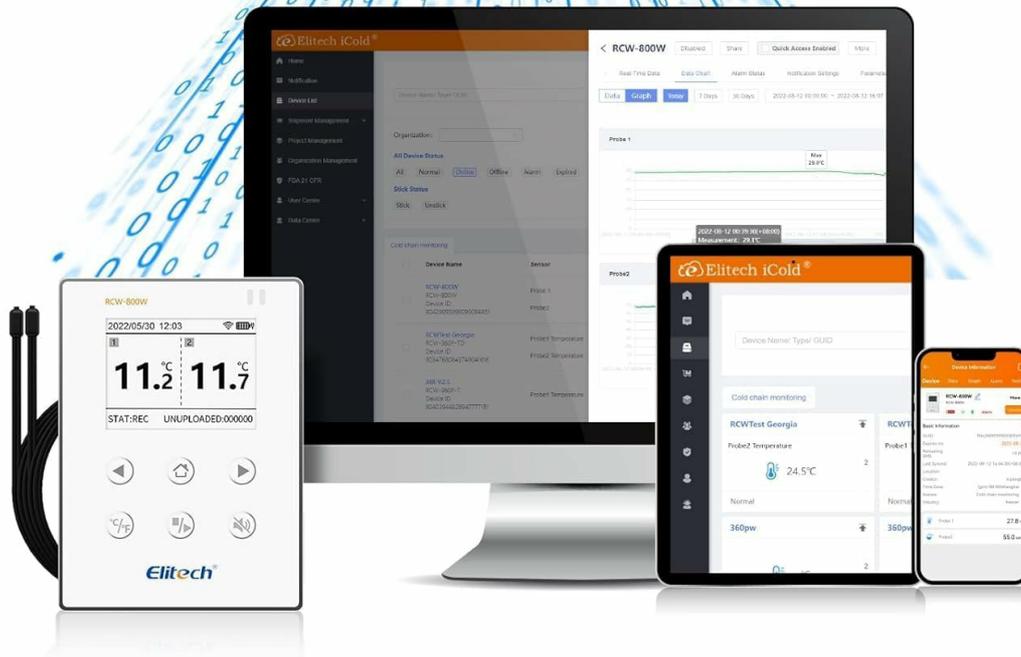


Figure 2: Magnetic Back for Easy Installation. The device can be easily mounted on metal surfaces.

5. SETUP INSTRUCTIONS

5.1 Initial Device Connection

Before initial use, ensure the device is charged. Connect the external probes to the device. Power on the device using the power button located on the back.

5.2 App Download and Account Registration

To utilize the full features of the RCW-800W-TDE, download the Elitech iCold app and register an account.



Figure 3: Scan this QR code to download the Elitech iCold app for Android. iOS version available on App Store.
Alternatively, download the Android app from: <http://www.e-elitech.cn/commonAction.do?method=andrioddl>

5.3 WiFi and Bluetooth Configuration

The device supports both WiFi and Bluetooth for data transmission and configuration. Follow the in-app instructions to connect your device to your 2.4GHz or 5GHz WiFi network.



Figure 4: Bluetooth configuration process for connecting the device to your network.

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Video 1: Demonstrates the process of connecting the Elitech RCW-800W to 2.4G and 5G WiFi networks for real-time temperature monitoring.

6. OPERATING INSTRUCTIONS

6.1 Real-time Data Monitoring

Once connected, the device will transmit real-time temperature data to the Elitech iCold cloud platform. You can view this data via the mobile app or web interface.

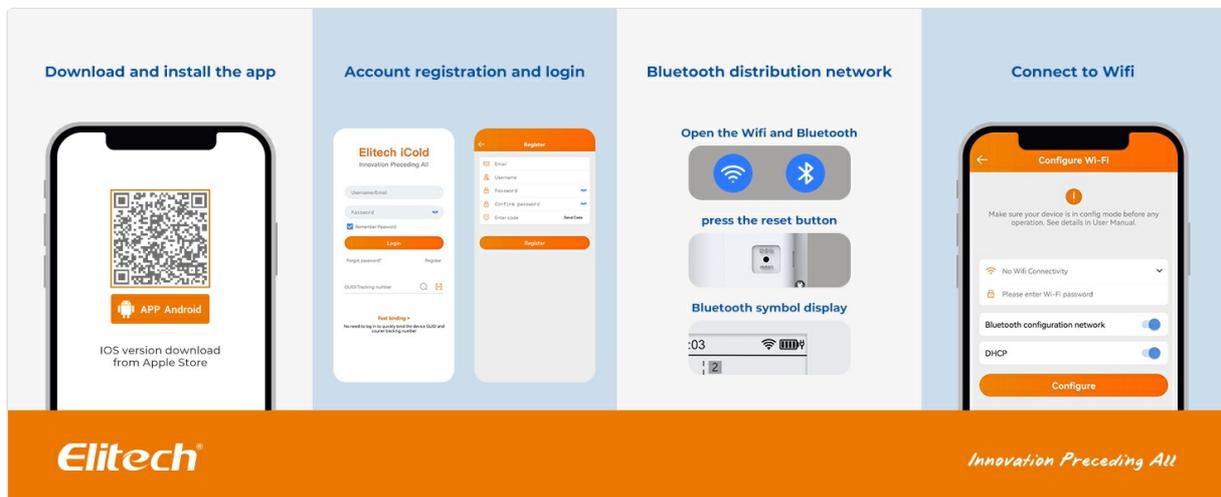


Figure 5: Real-time data can be accessed from anywhere using the mobile app and cloud platform.

6.2 Data Chart and Export

The platform allows you to view historical data in chart format and export reports for analysis.

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Video 2: Detailed instructions on operating the Elitech Cloud Platform, including data viewing and export functions.

6.3 Alarm Settings and Notifications

Configure alarm thresholds and notification methods (app, email, SMS) through the Elitech iCold platform. The device features audible and visual alerts for timely detection of abnormal conditions.

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Video 3: Explains how to set up email and app notifications for real-time alerts on the Elitech data logger.

6.4 Sharing Real-time Data

You can share real-time data with other users or organizations via the Elitech iCold platform.

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Video 4: Guide on how to share real-time data to others using the Elitech iCold platform.

7. MAINTENANCE

7.1 Probe Replacement

If a probe needs replacement, ensure the device is powered off before disconnecting the old probe and connecting the new one. Verify correct readings after replacement.

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Video 5: Instructions for exchanging the temperature or temperature-humidity probe for the RCW-800W.

7.2 Cleaning

Wipe the device and probes with a soft, dry cloth. Do not use abrasive cleaners or allow moisture to enter the device.

7.3 Battery Care

The device contains a rechargeable lithium battery. For optimal battery life, avoid extreme temperatures and prolonged periods of full discharge or full charge.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Device not connecting to WiFi	Incorrect WiFi password; out of range; 5GHz network compatibility issue.	Verify WiFi password. Move device closer to router. Ensure router supports 2.4GHz/5GHz and device is configured for the correct band.
No data displayed on app/web	Device offline; network issue; incorrect device ID.	Check device's WiFi connection status. Verify internet connectivity. Confirm correct device ID in the app/web platform.
Inaccurate temperature readings	Damaged probe; probe not fully inserted; environmental interference.	Ensure probes are securely connected. Inspect probes for visible damage and replace if necessary. Avoid placing probes near heat sources or direct airflow.
Alarms not triggering	Alarm thresholds incorrectly set; notification settings disabled; network issues.	Review and adjust alarm thresholds in the app/web. Check notification settings to ensure they are enabled for desired alerts. Verify device network connectivity.

9. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	RCW-800W-TDE
Temperature Range	-40°F to 176°F (-40°C to 80°C)
WiFi Support	2.4GHz/5GHz
Probe Type	Dual External Temperature Probes
Probe Cable Length	16.4ft (5 meters)
Battery	1 Nonstandard Battery (included), rechargeable lithium battery
Battery Backup	No less than 7 days (at 25°C with 5-minute upload intervals)
Installation	Built-in magnets or drill holes for fixed mounting
Smart Home Compatibility	Smart Home Compatible
Manufacturer	Elitech

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Elitech website or contact Elitech customer service directly. Keep your purchase receipt for warranty claims.

Elitech Technology Inc.

Website: www.elitechlog.com