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Elitech RCW-3000

Elitech RCW-3000 Wireless Gateway Instruction Manual

Model: RCW-3000 | Brand: Elitech

1. PRODUCT OVERVIEW

The Elitech RCW-3000 Wireless Gateway is a sophisticated device designed for real-time temperature and humidity monitoring. It serves as a central hub for Elitech RCW-3200 data loggers, transmitting data to the cloud via 4G or WiFi. This system allows users to remotely monitor environmental conditions, receive alerts, and access historical data through a mobile application or web platform.



Figure 1: Front view of the Elitech RCW-3000 Wireless Gateway.

2. KEY FEATURES

- **Wireless Communication:** Avoids complex wiring with easy installation. Supports wireless data transmission up to 1000 meters in visible distance.
- **Long Standby Time:** Equipped with a large-capacity lithium battery, providing over 12 months of operation (with 10-minute or 3-minute upload intervals).
- **Multi-Communication Options:** Offers flexible 4G and WiFi connectivity to suit various environmental requirements.
- **Multiple Alarm Notifications:** Provides alerts via email, SMS, and the Elitech mobile application (iOS and Android compatible) for remote parameter settings and device management.
- **Free Subscription:** Standard plan includes email alerts, remote settings, and 30 days of data review and storage. Advanced and professional plans are available for extended data storage (3-5 years), data export, user management, and FDA service.

3. PRODUCT COMPONENTS AND INTERFACES



Figure 2: Elitech RCW-3000 Wireless Gateway with its antennas.

SIM card access hole

SIM card

WiFi switch key/network configuration
Press: WiFi module on/off
Press and hold for 3s: enter the network configuration mode

Power button

Type-C interface

Ethernet interface
(wired version)

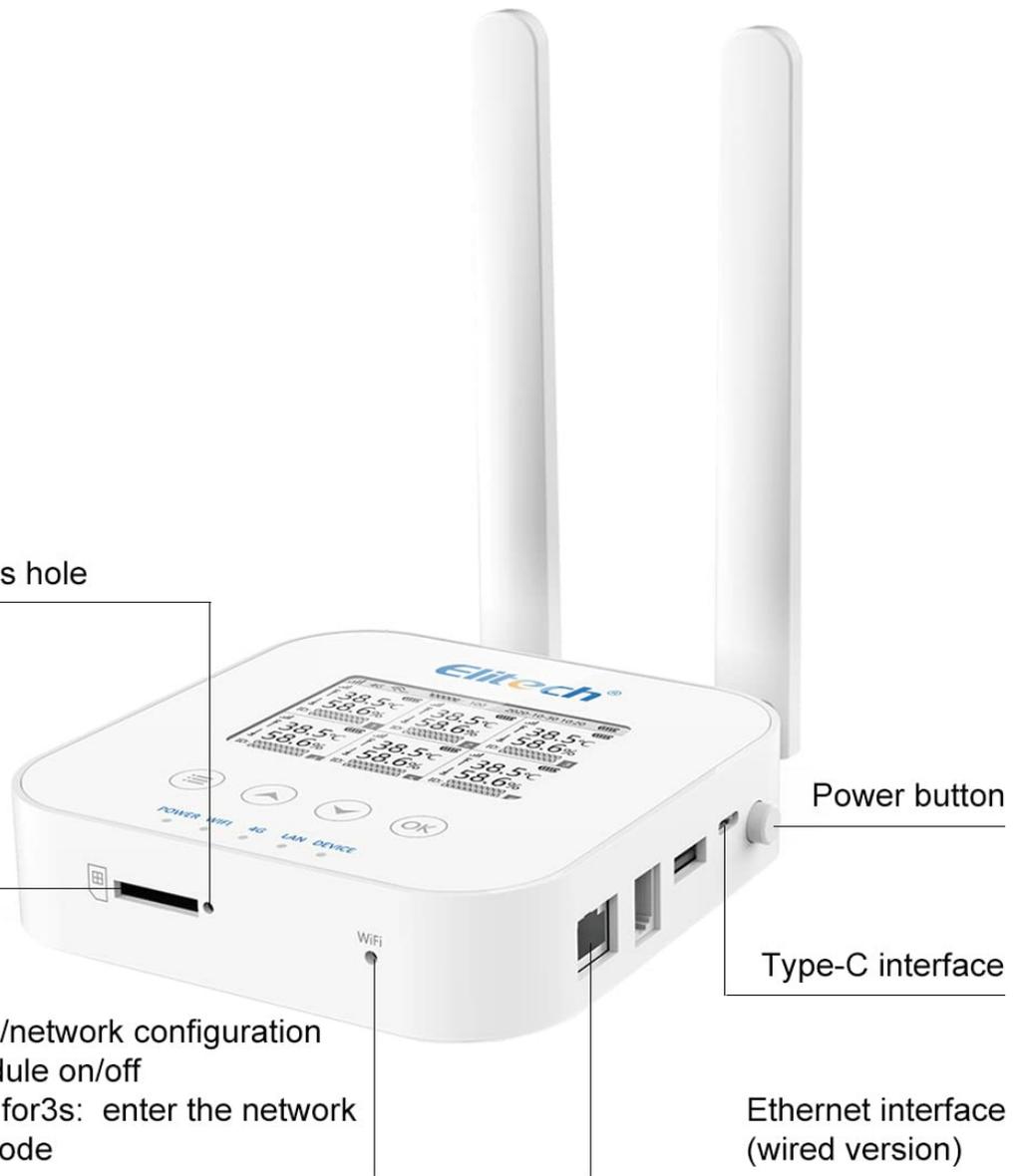


Figure 3: Side view detailing the SIM card access hole, SIM card slot, power button, Type-C interface, and Ethernet interface.

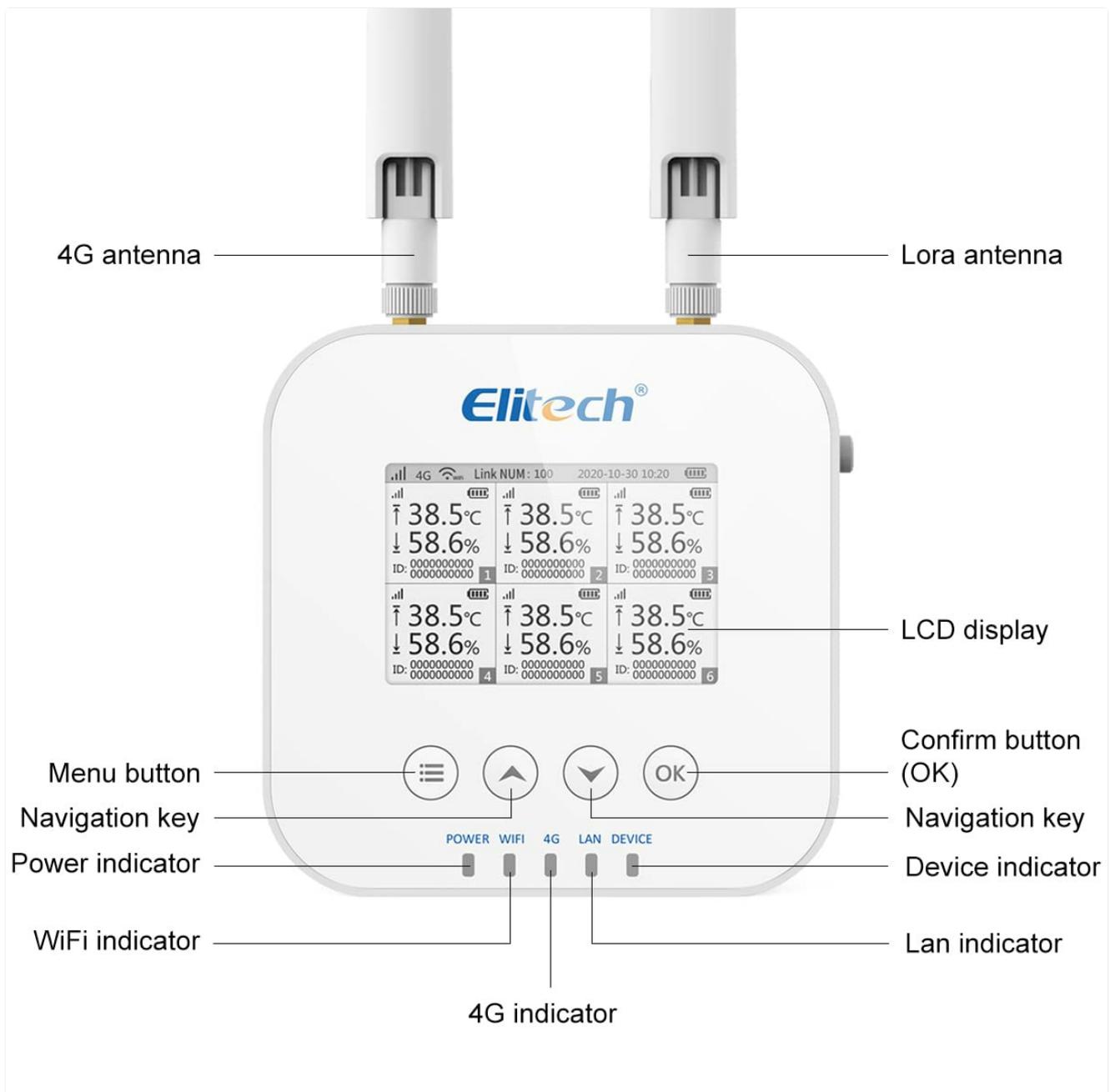


Figure 4: Front panel layout showing the LCD display, Menu button, Navigation keys, OK button, Power indicator, WiFi indicator, 4G indicator, LAN indicator, 4G antenna, and Lora antenna.

The LCD provides comprehensive real-time information about the gateway and connected sensors. This includes current date and time, power status, signal strength for 4G and WiFi, network mode, the number of connected sensors, individual sensor battery levels, Lora signal strength, and the temperature and humidity readings from each sensor, along with their unique GUIDs.

4. SETUP INSTRUCTIONS

4.1 Initial Power-Up and Network Connection

1. Insert a valid SIM card into the SIM card slot if using 4G connectivity.
2. Connect the power adapter to the Type-C interface and plug it into a power source.
3. The device will power on automatically. Observe the Power, WiFi, 4G, and LAN indicators for status.
4. For WiFi connection, press and hold the WiFi switch key for 3 seconds to enter network configuration mode. Follow the instructions on the LCD or refer to the Elitech iCold platform for setup.
5. For wired Ethernet connection, connect an Ethernet cable to the LAN port.

4.2 Elitech iCold Cloud Platform Registration and Device Addition

To fully utilize the monitoring capabilities, register an account on the Elitech iCold cloud platform and add your RCW-3000 gateway. This process involves creating an account, verifying your email, and then adding the device using its unique GUID.

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Video 1: Elitech Cloud Platform Operation Instructions. This video demonstrates the registration process, adding devices, setting up notifications, and generating reports on the iCold platform.

After connecting the RCW-3000 gateway, RCW-3200 sensors will automatically show up on the cloud platform within 10 minutes.



Figure 5: The back of the RCW-3000 gateway showing the QR code for easy setup and integration with the mobile application. Scan the QR code to quickly add the device to your Elitech iCold account.

5. OPERATING INSTRUCTIONS

5.1 Understanding the LCD Display

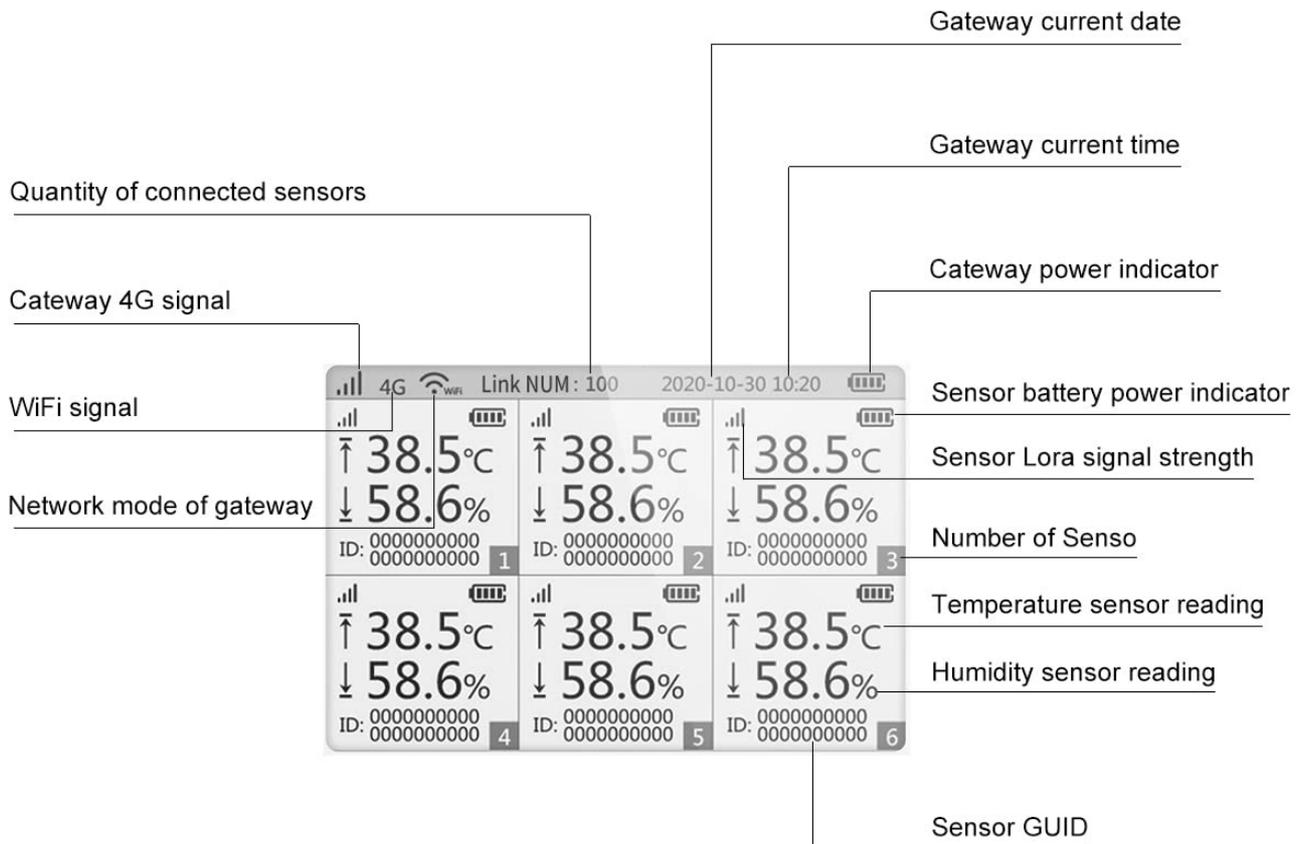


Figure 6: Detailed view of the LCD display, showing gateway current date/time, power indicator, 4G/WiFi signals, network mode, connected sensor quantity, sensor battery power, Lora signal strength, sensor readings (temperature/humidity), and Sensor GUID.

The LCD provides comprehensive real-time information about the gateway and connected sensors. This includes current date and time, power status, signal strength for 4G and WiFi, network mode, the number of connected sensors, individual sensor battery levels, Lora signal strength, and the temperature and humidity readings from each sensor, along with their unique GUIDs.

5.2 Remote Monitoring and Data Access

Once connected to the Elitech iCold cloud platform, you can access real-time data, historical charts, and alarm statuses from anywhere using the mobile app or web interface. The platform allows for remote parameter settings and device management.



Wireless Monitoring Solution



Figure 7: Illustration of the wireless monitoring solution, demonstrating how the RCW-3000 gateway connects to RCW-3200 sensors and transmits data to the cloud for access via laptop and mobile devices.

6. DATA MANAGEMENT

The Elitech iCold platform provides robust data management features. Users can view real-time data, generate data charts for various timeframes (today, 7 days, 30 days), and export data in PDF or XLS formats. FDA data export is also supported for compliance purposes.

6.1 Data Export

Data can be exported from the iCold platform for record-keeping or analysis. This includes options for PDF reports and Excel spreadsheets, allowing for detailed review of temperature and humidity logs.

6.2 Scheduled Backup

The platform supports scheduled data backups, ensuring that your monitoring data is regularly saved and accessible. This feature can be configured to automatically generate and send reports at specified intervals.

7. ALARM SETTINGS

Configure custom alarm thresholds and notification methods through the Elitech iCold platform. You can set upper and lower temperature limits, humidity limits, and receive alerts via email, SMS, or in-app notifications. Multi-level alarms and scheduled notifications are also available.

7.1 Notification Approach

Choose your preferred notification methods, such as SMS or email, and define alarm rules including repeat times and notification intervals. You can also schedule notifications for specific times.

7.2 Alarm Categories

Set up various alarm categories, including alerts for temperature exceeding upper limits, falling below lower limits, probe faults, and offline alarms. This ensures comprehensive monitoring and timely alerts for critical events.

8. SPECIFICATIONS

Feature	Detail
Model Number	RCW-3000
Package Dimensions	6 x 4 x 2 inches
Item Weight	2 pounds
Manufacturer	Elitech
Batteries	1 Lithium Ion batteries required (included)
Connectivity	4G, WiFi, Lora
Data Transmission Range	Up to 1000 meters (visible distance)
Battery Life	More than 12 months (10 or 3 min upload interval)

9. MAINTENANCE

- Regularly check the device for any physical damage or loose connections.
- Ensure the antennas are securely attached for optimal signal reception.
- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Monitor battery status through the Elitech iCold platform and replace the lithium-ion battery when necessary.
- Periodically check for firmware updates on the Elitech website or through the iCold platform to ensure optimal performance and access to new features.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on	No power supply; faulty power adapter; dead battery.	Check power connection; try a different power adapter; replace battery.
No data upload to cloud	No network connection (WiFi/4G); incorrect network settings; expired subscription.	Verify WiFi/4G signal strength; check network configuration on iCold platform; renew subscription if expired.
Sensor readings inaccurate	Sensor malfunction; improper sensor placement.	Check sensor connection; reposition sensor; contact support if issue persists.
Alarm notifications not received	Incorrect notification settings; email/SMS blocked; device offline.	Review alarm settings on iCold platform; check spam folders; ensure device is online.

11. WARRANTY AND SUPPORT

Elitech provides a standard warranty for the RCW-3000 Wireless Gateway. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Elitech website. Elitech offers 24/7 US Technician Support via Email and Phone for any technical assistance or inquiries.

For further assistance, please visit the [Elitech Store on Amazon](#) or their official website.