ECOWITT GW1000

ECOWITT GW1000 WiFi Gateway Instruction Manual

Smart Sensor Series

1. Introduction

The ECOWITT GW1000 WiFi Gateway is a central component of the ECOWITT Smart Sensor Series, designed to collect data from various wireless weather sensors and make it accessible via a mobile application and cloud services. This manual provides essential information for setting up, operating, and maintaining your GW1000 WiFi Gateway.

2. Package Contents

- 1x GW1000 Wi-Fi Gateway
- 1x Cable Clip
- Integrated 3-in-1 Sensor Probe (Temperature, Humidity, Atmospheric Pressure)

Note: A USB power adapter (DC 5V 1A) is required but not included.

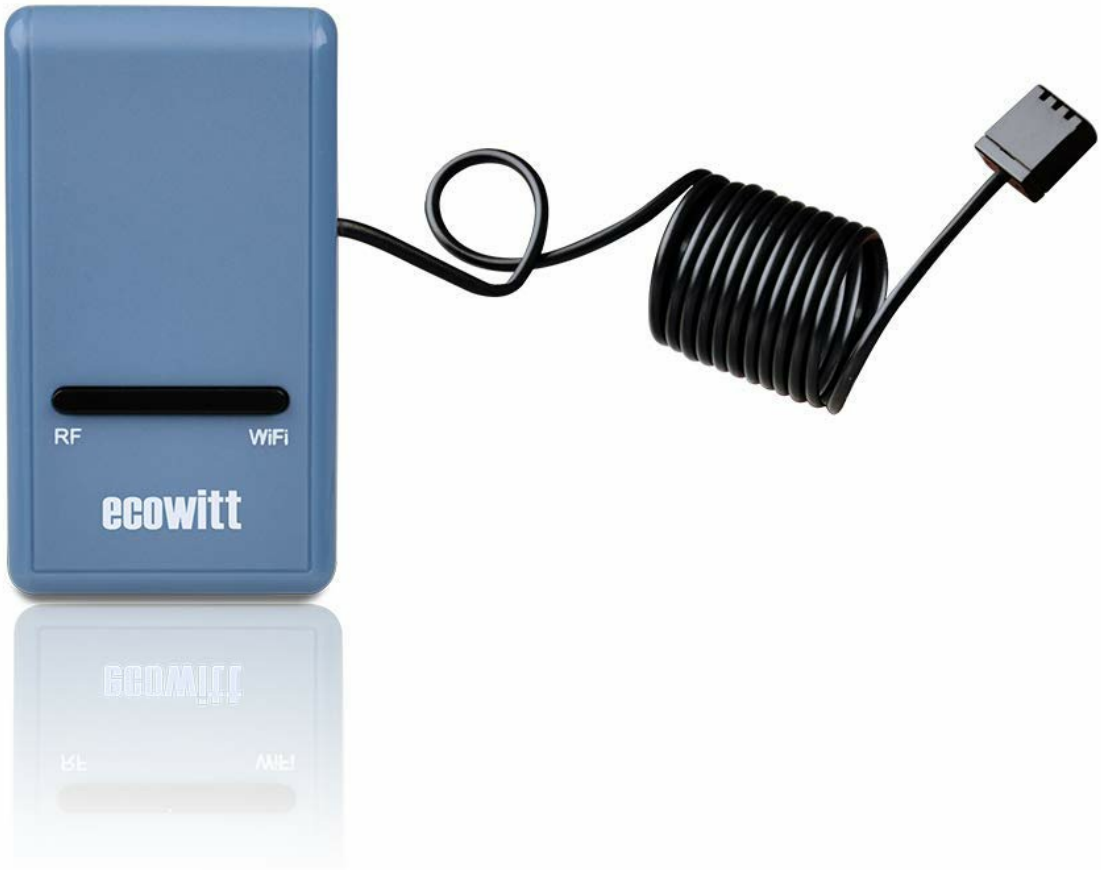


Image: The ECOWITT GW1000 WiFi Gateway with its integrated sensor probe and coiled cable.

3. Setup

3.1 Powering the Gateway

1. Connect the GW1000 WiFi Gateway to a DC 5V 1A USB power adapter (not included) using the provided USB cable.
2. Ensure the gateway powers on.

3.2 Installing the WS View App

Download the 'WS View' mobile application from your device's app store (available for iOS and Android). This app is essential for initial configuration and local data viewing.

3.3 Connecting to Wi-Fi

1. Open the WS View app on your mobile device.
2. Follow the in-app instructions to connect the GW1000 Gateway to your local 2.4GHz band WiFi network. The app

requires location access to configure weather services; please enable this function in your mobile device settings when prompted.

3.4 Pairing External Sensors (Optional)

The GW1000 Gateway automatically receives data from compatible ECOWITT wireless sensors (sold separately). Ensure your external sensors are powered on and within range. The gateway will detect and display their data in the WS View app.

Image: Diagram illustrating the ECOWITT GW1000 WiFi Gateway, its 3-in-1 sensor probe, and USB power connection.

4. Operation

4.1 Viewing Live Data on the WS View App

Once connected to your local network, the WS View app allows you to view live sensor data collected by the GW1000 Gateway. This includes data from the built-in 3-in-1 sensor and any paired external sensors. Please note that live data is only available when your mobile device and the gateway are on the same local network.

Image: A mobile phone screen displaying live weather data within the WS View application, showing various sensor readings.

4.2 Remote Monitoring via Ecowitt.net Server

For remote access, historical data, and advanced features, upload your sensor data to the free Ecowitt Weather server (ecowitt.net). This service provides:

- Live data dashboard
- Graphical display of historical data
- Email alerts based on custom thresholds
- Data storage for past year (5-minute intervals) and past 2 years (30-minute intervals)
- History records export function

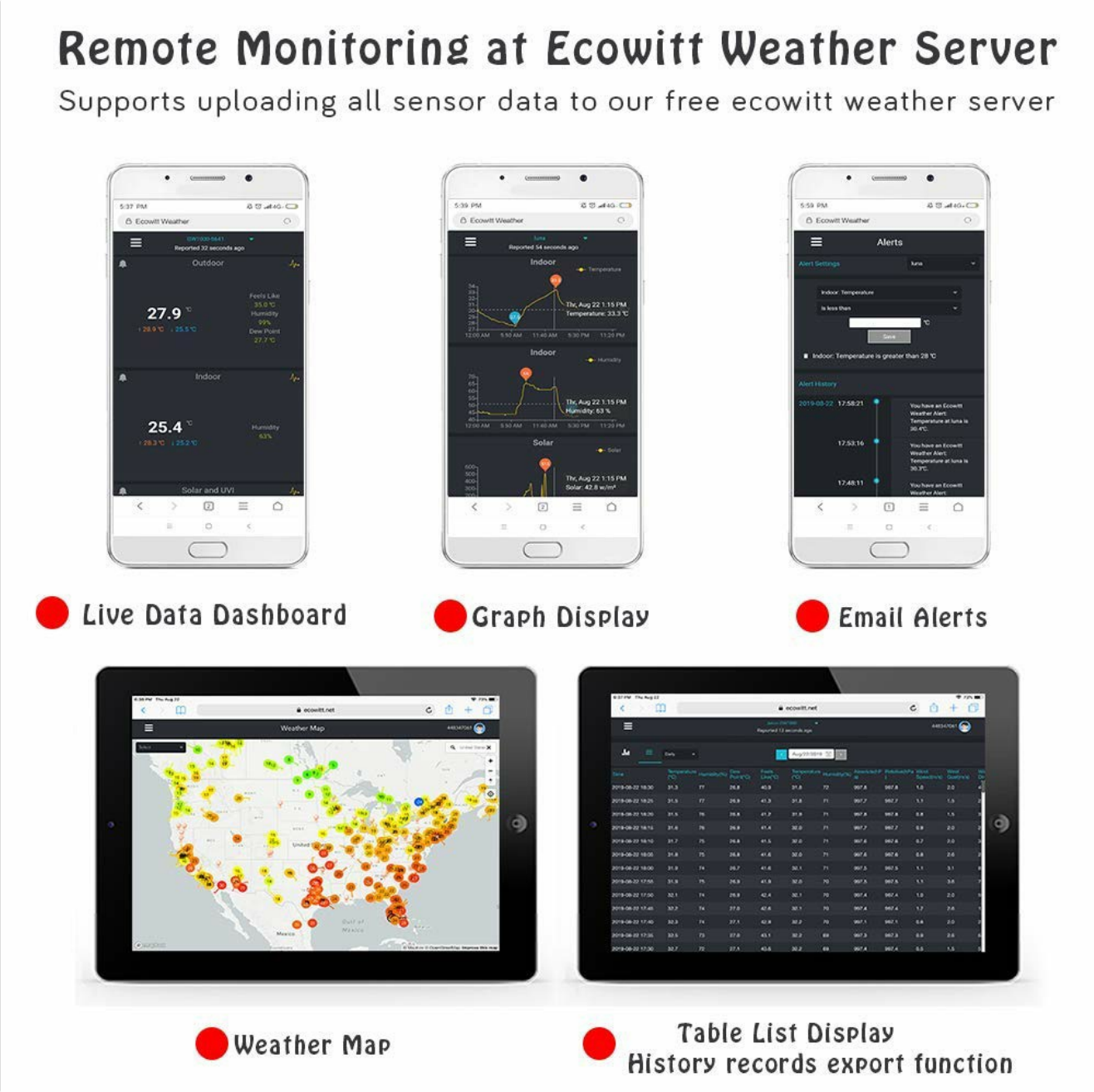


Image: Various views of the Ecowitt.net web interface, demonstrating live data, historical graphs, alert settings, and a weather map.

4.3 Other Supported Weather Services

The GW1000 Gateway supports uploading outdoor sensor data to other popular weather services, including:

- Wunderground.com
- Weathercloud.com
- WOW.com

You can also configure custom sites using either the Wunderground or Ecowitt protocol. Please note that Wunderground typically only accepts outdoor sensor data. For comprehensive data from all sensors, the Ecowitt server is recommended.

4.4 Supported Optional Sensors

The GW1000 Gateway is compatible with a range of ECOWITT wireless sensors (sold separately) to expand your weather monitoring capabilities:

- WH32 Outdoor Temperature and Humidity Sensor

- WH40 Self-emptying Rain Gauge Sensor
- WS68 Wireless Anemometer
- WH31 Multi-channel Temperature and Humidity Sensors (up to 8)
- WH51 Soil Moisture Sensors (up to 8)
- WH41 PM2.5 Air Quality Sensors (up to 4)

Image: An overview of the ECOWITT GW1000 WiFi Gateway and the range of compatible Wi-Fi weather sensors, including outdoor temperature/humidity, anemometer, rain gauge, multi-channel temperature/humidity, PM2.5, and soil moisture sensors.

5. Maintenance

5.1 Sensor Calibration

The WS View app allows you to manage sensor calibration settings. Refer to the app's specific instructions for calibrating individual sensors to ensure accuracy.

5.2 Sensor Management

Within the WS View app, you can manage the selection and configuration of your connected sensors.

5.3 Email Alerts

Utilize the Ecowitt.net server to set up custom email alerts for various sensor readings. This allows you to be notified when specific thresholds are met (e.g., temperature too high/low, humidity changes).

6. Troubleshooting

- **WS View App Location Access:** If the WS View app encounters issues during configuration, ensure that location access is enabled for the application in your mobile device's settings. This is necessary for proper weather service setup.
- **Data Upload to Wunderground:** If you are not seeing all sensor data on Wunderground, remember that Wunderground typically only accepts outdoor sensor data. For a complete view of all sensor data, use the Ecowitt.net server.
- **Local Network Data Access:** Live data viewing on the WS View app is restricted to your local network. For remote monitoring outside your home network, utilize the Ecowitt.net server.
- **Software Updates:** Exercise caution when performing software updates. Some users have reported data loss after updates. It is advisable to back up any critical data if such an option is available before proceeding with updates.
- **Sensor Connectivity:** If a sensor is not reporting data, check its power source (e.g., batteries) and ensure it is within the wireless range of the GW1000 Gateway (300ft/100m in open areas).

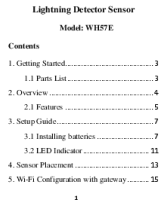
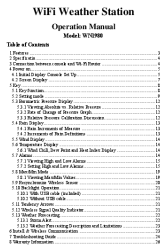
7. Specifications

Feature	Specification
Power Source	DC 5V 1A (USB connection)
Dimensions (L x W x H)	62 x 35 x 12 mm (2.44 x 1.38 x 0.47 inches)
Cable Length (3-in-1 Probe)	1M / 3FT
Wireless Range (to external sensors)	300FT / 100M (in open areas)
Frequency	915Mhz
Temperature Range (Built-in)	14°F - 140°F (-10°C - 60°C)
Temperature Resolution	0.1°F / 0.1°C
Humidity Range (Built-in)	10% ~ 99%
Humidity Resolution	1%
Humidity Accuracy	± 5%
Barometric Pressure Range (Built-in)	300 – 1,100 hPa
Barometric Pressure Accuracy	± 5 hPa
Connectivity	USB, Wi-Fi (2.4GHz only)
Special Features	Lightweight, Wireless

8. Support

For further assistance, technical support, or to explore additional products, please visit the official ECOWITT website or contact their customer service. Information regarding warranty may also be available on the official website.

Related Documents - GW1000

	Ecowitt WH57E Lightning Detector Sensor User Manual Comprehensive user manual for the Ecowitt WH57E Lightning Detector Sensor. Learn about installation, setup, features, specifications, warranty, and FCC compliance.
	Ecowitt Gateway/Console Quick Start Guide A quick start guide for configuring the Ecowitt Generic Gateway/Console using the Ecowitt mobile app or the embedded web interface, covering setup steps and troubleshooting.
	Ecowitt GW2000 Wired & Wireless Wi-Fi Gateway: User Manual & Setup Guide Discover the capabilities of the Ecowitt GW2000 Wired and Wireless Wi-Fi Gateway. This comprehensive manual details setup, features, specifications, and troubleshooting for your gateway, which integrates built-in temperature, humidity, and barometric sensors with external wireless sensors for advanced environmental monitoring. Connect to Wi-Fi or Ethernet, upload data to cloud services, and manage your weather station efficiently.
	Ecowitt WN1980 WiFi Weather Station Operation Manual User guide for the Ecowitt WN1980 WiFi Weather Station, covering setup, features, specifications, operation, and troubleshooting for accurate home weather monitoring.


Drahtloser Bodenfeuchtigkeitssensor
Modell: WH51
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[Drahtloser Bodenfeuchtigkeitssensor WH51 - Benutzerhandbuch und Spezifikationen]

Umfassendes Benutzerhandbuch für den drahtlosen Bodenfeuchtigkeitssensor Ecowitt WH51, einschließlich Einrichtung, Funktionen, Kalibrierung, Spezifikationen und Garantieinformationen.

4G & Wi-Fi Weather Station Mobile Gateway
Modell: WS6210

[Ecowitt WS6210 4G & Wi-Fi Weather Station Mobile Gateway User Manual]

Comprehensive user manual for the Ecowitt WS6210 4G & Wi-Fi Weather Station Mobile Gateway, covering installation, setup, operation, and troubleshooting for meteorological data collection.