ECOWITT WH5360H

ECOWITT WH5360H Rain Gauge User Manual

Model: WH5360H

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ECOWITT WH5360H Rain Gauge. The system includes a WH40H Rain Collector Sensor and an Indoor Display Console, designed to accurately measure and display rainfall data, along with indoor temperature and humidity.

Figure 1: ECOWITT WH5360H Rain Gauge components: WH40H Rain Collector Sensor with bird spikes and the Indoor Display Console.

2. PACKAGE CONTENTS

Verify that all components are present and in good condition:

- WH40H Rain Collector Sensor
- Indoor Display Console (WH5360BH)
- Bird Spikes (15 pieces)
- Mounting Accessories (U-bolts, screws)
- User Manual (this document)

3. PRODUCT OVERVIEW

3.1 WH40H Rain Collector Sensor

The WH40H is a self-emptying rain collector sensor designed for outdoor use. It features a heightened rainfall collector funnel (5cm/1.96in) to improve rain data accuracy. The sensor transmits rainfall data wirelessly to the Indoor Display Console.
The sensor includes 15 bird spikes to deter birds from nesting in the funnel, ensuring unobstructed rain collection.

3.2 Indoor Display Console (WH5360BH)

The Indoor Display Console receives and displays rainfall data from the WH40H sensor. It also has a built-in sensor for indoor temperature and humidity. The console provides various rainfall data displays, including rain rate, rain event, and historical records (1h/24h, daily, weekly, monthly, yearly, 24 monthly history, 730 days with rainfall records). It features a rain grade graph and allows selection between mm/inch measuring units.

Figure 2: Indoor Display Console (Front and Rear View) with numbered components.

Display Components:

1. Rainfall data display
2. Rain grade graph

3. Rainfall of day/week/month/year display

4. Time

5. Alarm icon

6. Date/Week

7. Signal icon

8. Rain rate/event/1h/24h display

9. Indoor temperature

10. Indoor humidity

11. Wall-mounted hole

12. Table stand

13. Battery door

4. SETUP AND INSTALLATION

4.1 Rain Collector Sensor Installation

Proper placement and installation are crucial for accurate rainfall measurements.

- **Location:** Choose an open area where the sensor is not obstructed by trees, buildings, or other structures that could block rain or cause splash-back. Ensure it is on a level surface.
- **Mounting:** The sensor offers two installation methods:

    1. Use the provided U-bolts to fix the sensor securely onto a pole.
    2. Use screws to mount the sensor on a leveled flat surface.

- **Bird Spikes:** Insert the 15 bird spikes into the designated holes on the funnel to prevent birds from interfering with rain collection.
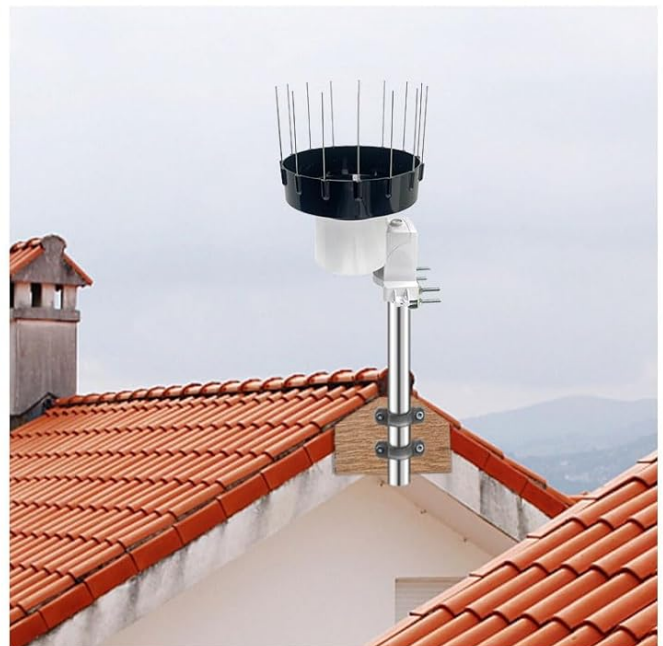
Figure 3: Rain Collector Sensor installation examples.

4.2 Indoor Display Console Setup

- **Power:** Install batteries into the console's battery compartment (refer to Figure 2, item 13).
- **Placement:** Place the console indoors within the wireless transmission range (up to 100m/328ft line of sight) of the rain collector sensor. Avoid placing it near large metal objects or electrical appliances that may cause interference.
- **Pairing:** The console should automatically connect with the rain collector sensor upon power-up. If connection is not established, refer to the troubleshooting section.
- **Initial Settings:** Set the current time, date, and preferred measurement units (mm/inch) using the console buttons. Refer to the 'Operation' section for button functions.

Figure 4: Wireless communication between sensor and display console.

5. OPERATION

The Indoor Display Console provides comprehensive rainfall data and indoor environmental readings. Refer to Figure 2 for button and display component identification.

5.1 Display Functions

- **Rainfall Data:** Displays current rain rate, rain event, and total rainfall for various periods (1 hour, 24 hours, daily, weekly, monthly, yearly).
- **Rain Grade Graph:** Visual representation of rainfall intensity over time.
- **Historical Records:** Access 24 monthly rain history and records for the 730 days with rainfall. Use the **HISTORY** button to navigate.
- **Indoor Temperature & Humidity:** Current indoor temperature and relative humidity are shown.
- **Time & Date:** Displays current time and date.

- **Signal Icon:** Indicates the strength of the wireless connection between the console and the rain sensor.

5.2 Button Functions

The console features several buttons for navigation and settings:

- **SET:** Enters setup mode or confirms settings.
- **RAIN1/+:** Used to cycle through different rainfall data displays (e.g., 1h, 24h, daily) or increase values during setting.
- **RAIN2/-:** Used to cycle through different rainfall data displays or decrease values during setting.
- **HISTORY:** Accesses historical rainfall records.
- **HI/LO:** Displays high and low records for temperature and humidity.

6. MAINTENANCE

6.1 Cleaning the Rain Collector Sensor

Periodically inspect and clean the rain collector funnel to ensure accurate readings. Debris such as leaves, insects, or dirt can obstruct the tipping bucket mechanism.

- Carefully remove the top funnel section.
- Clean any debris from the funnel and the tipping bucket mechanism using a soft cloth and water. Avoid abrasive cleaners.
- Ensure the tipping bucket moves freely.
- Reassemble the sensor, ensuring the bird spikes are properly reinserted.

6.2 Battery Replacement

Replace batteries in both the sensor and console as needed. Low battery indicators will appear on the display.

- **Rain Collector Sensor:** Access the battery compartment, typically located at the base of the sensor. Replace with fresh batteries of the specified type (refer to sensor markings or original packaging).
- **Indoor Display Console:** Open the battery door on the rear of the console (Figure 2, item 13). Replace with fresh batteries of the specified type.
- After battery replacement, the devices may need to re-establish connection.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No rainfall data on display.	Sensor not paired with console. Sensor batteries low or dead. Obstruction in rain collector. Sensor out of range.	Check sensor batteries and replace if necessary. Ensure sensor is within wireless range of console. Clear any debris from the rain collector funnel and tipping bucket. Re-establish connection by power cycling both devices.

Problem	Possible Cause	Solution
Inaccurate rainfall readings.	Sensor not level. Debris in collector. Interference from nearby objects.	Ensure sensor is installed on a perfectly level surface. Clean the rain collector funnel and tipping bucket. Relocate sensor to an open area free from obstructions.
Indoor temperature/humidity incorrect.	Console placed near heat/cold source. Console sensor obstructed.	Move console away from direct sunlight, vents, or appliances. Ensure console's ventilation holes are clear.

8. SPECIFICATIONS

Feature	Detail
Model Number	WH5360H (Console: WH5360BH, Sensor: WH40H)
Product Dimensions (Console)	Approximately 14.22 cm x 9.44 cm (5.6 in x 3.6 in)
Product Dimensions (Sensor)	Approximately 18.9 cm x 19.4 cm (7.44 in x 7.64 in)
Item Weight	2.31 pounds (total package)
Wireless Frequency	915 MHz
Wireless Range	Up to 100 meters (328 feet) line of sight
Rainfall Funnel Height	5 cm (1.96 in)
Manufacturer	ECOWITT

Figure 5: Product dimensions.

9. WARRANTY AND SUPPORT

ECOWITT products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official ECOWITT website. For technical support, product inquiries, or assistance with troubleshooting, please contact ECOWITT customer service through their official channels.
You can often find support resources, FAQs, and contact information on the manufacturer's website:www.ecowitt.com

Related Documents - WH5360H

Ecowitt WH40 Wireless Self-emptying Rain Gauge Sensor Manual
A comprehensive guide to the Ecowitt WH40 Wireless Self-emptying Rain Gauge Sensor, detailing its features, setup, installation, Wi-Fi configuration, maintenance, specifications, and warranty information.

High Precision Digital Rain Gauge
with Indoor Temperature and Humidity
Model: WH5360

Thanks for your purchasing of the WH5360 High Precision Digital Rain Gauge with indoor temperature and humidity. To ensure the best product performance, please read this manual and retain it for future reference.

Note: The stainless steel pole for the rain gauge is not included.

ECOWITT WH5360 High Precision Digital Rain Gauge User Manual
User manual for the ECOWITT WH5360 High Precision Digital Rain Gauge, detailing setup, installation, features, maintenance, and troubleshooting for indoor temperature and humidity monitoring.

Weather Station Console Manual
Model: WS2910

https://ecowitt.com/GJHUKF

Ecowitt WS2910 Weather Station Console Manual - Setup & Operation Guide
Comprehensive user manual for the Ecowitt WS2910 Weather Station Console. This guide details setup, features, Wi-Fi connectivity, app integration, sensor management, troubleshooting, and specifications for accurate weather monitoring.

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.

7-IN-1 WIRELESS SOLAR POWERED
WEATHER SENSOR
Model: WS69

https://s.ecowitt.com/F3L3PU

Ecowitt WS69 7-in-1 Wireless Solar Powered Weather Sensor User Manual
Comprehensive user manual for the Ecowitt WS69 7-in-1 Wireless Solar Powered Weather Sensor. Covers installation, configuration, features, specifications, warnings, maintenance, and FCC compliance for accurate outdoor weather monitoring.

WiFi Weather Station

Operation Manual

Model: WN1980

Table of Contents

[Ecowitt WN1980 WiFi Weather Station Operation Manual](#)

Comprehensive operation manual for the Ecowitt WN1980 WiFi Weather Station, detailing features, specifications, setup, operation modes, alarm settings, troubleshooting, and warranty information.