

ECOWITT WH5370H

ECOWITT WH5370H Digital Wireless Rain Gauge with Thermometer User Manual

INTRODUCTION

The ECOWITT WH5370H is a digital wireless rain gauge system designed for accurate monitoring of rainfall and indoor environmental conditions. It comprises a self-emptying rain collector (WH40H) and an indoor display console (WH5370_C) that also measures indoor temperature and humidity. This manual provides instructions for setup, operation, and maintenance of your device.

PACKAGE CONTENTS

The ECOWITT WH5370H package includes the following components:

- WH5370_C Display Console (Wi-Fi not supported)
- WH40H Wireless Rain Gauge Sensor
- Extension Funnel (3.5 cm high)
- Bird Repellent Spikes (15 pieces)
- Mounting Hardware (U-bolt kit, screws)
- User Manual (this document)

PRODUCT OVERVIEW

Rain Gauge Sensor (WH40H)

Pluviometro autopulente 100m/328ft. Portata di trasmissione wireless



Diagram of the WH40H Wireless Rain Gauge Sensor, highlighting key components such as the bird deterrent spikes, rain collector, bubble level, battery compartment cover, screw hole, and U-bolt mounting kit.

SELF-EMPTYING RAIN COLLECTOR

100M/300FEET WIRELESS TRANSMISSION RANGE



Close-up view of the Ecowitt WH40H Rain Gauge Sensor, showing its self-emptying design and bird repellent spikes.

Display Console (WH5370_C)

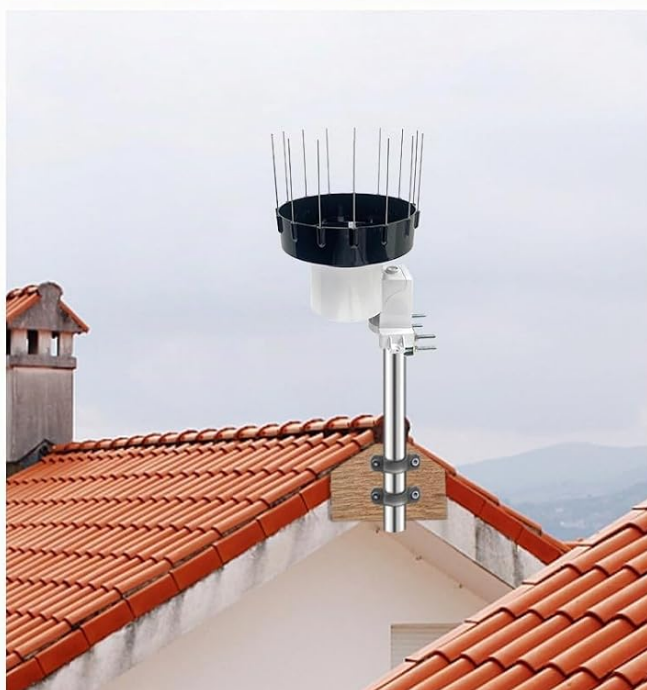


Front view of the WH5370_C Display Console with numbered labels indicating: (1) Rainfall data display, (2) Rainfall grade graph, (3) Rainfall of day/week/month/year display, (4) Time, (5) Alarm icon, (6) Date/Week, (7) Signal icon, (8) Rain rate/event/1h/24h display, (9) Indoor temperature, (10) Indoor humidity. The back view shows: (11) Wall-mounted hole, (12) Table stand, (13) Battery door.

SETUP AND INSTALLATION

Sensor Placement

Choose an open outdoor location for the WH40H rain gauge sensor, ensuring it is level and free from obstructions like trees or buildings that could block rain or RF signals. The sensor transmits data up to 100 meters (328 feet) to the display console. Use the included U-bolt kit or screws for secure mounting.



Examples of suitable installation locations for the self-emptying rain collector, including a lawn, garden, and rooftop, demonstrating its versatility for various outdoor settings.

Display Console Setup

Place the WH5370_C display console indoors, within the 100-meter wireless range of the rain gauge sensor. Ensure it is in a location where you can easily view the data.

Battery Installation

Install 2x AA batteries (not included) into the battery compartment of both the WH40H rain gauge sensor and the WH5370_C display console. Observe correct polarity.

Initial Pairing

Upon battery installation, the display console will automatically search for and connect to the rain gauge sensor. This process may take a few minutes. Ensure both units are powered on and within range.

WH40H Wireless Self-Emptying Sensore pluviometro

Comunicazione RF
100m/328ft

ecowitt



Diagram illustrating the wireless RF communication between the WH40H Wireless Self-Emptying Rain Gauge Sensor and the indoor display console, showing a typical range of 100m/328ft.

OPERATION

Date and Time Settings

The display console features a calendar showing month/day/year (2017-2099, default 2019) and an optional 12/24 hour format. Refer to the display console's buttons (SET, RAIN1+/-, HISTORY, HI/LO) for adjusting these settings.

Indoor Temperature and Humidity Monitoring

The display console includes an integrated sensor that measures indoor temperature and humidity every 60 seconds. It automatically records daily maximum/minimum values with timestamps. Warning notifications can be set for critical temperature/humidity limits.

Rainfall Data Monitoring

The system receives rainfall data every 49 seconds from the WH40H sensor. The display graphically shows rainfall intensity and event data. It also provides warning notifications for rainfall intensity and events. The console stores rainfall history for the past 24 months and daily records for the past 730 days.

Alarms and History

Utilize the integrated and customizable alarm function to plan your daily routine based on weather conditions. The HISTORY button allows you to review past rainfall data.

MAINTENANCE

Cleaning the Rain Collector

Although the WH40H is self-emptying, periodically check the rain collector funnel for debris such as leaves, insects, or dirt that might obstruct the tipping bucket mechanism. Clean with a soft, damp cloth if necessary.

Battery Replacement

Replace batteries in both the sensor and display console when the low battery indicator appears on the display. Use high-quality alkaline batteries for optimal performance.

TROUBLESHOOTING

- **No Rainfall Data Displayed:**
 - Check if the rain gauge sensor is within the 100m wireless range of the display console.
 - Ensure batteries in both units are fresh and correctly installed.
 - Verify there are no major obstructions (thick walls, metal structures) between the sensor and console.
 - Check for debris in the rain collector that might prevent the tipping bucket from moving.
- **Incorrect Temperature/Humidity Readings:**
 - Ensure the display console is not placed near heat sources, direct sunlight, or vents that could affect readings.
 - Allow sufficient time for the sensor to stabilize after initial setup or battery replacement.
- **Display Not Responding:**
 - Replace batteries in the display console.
 - Perform a factory reset if available (refer to specific button combinations on the device, not detailed in provided data).

SPECIFICATIONS

Feature	Detail
Package Dimensions	20.2 x 20 x 18.3 cm; 1.02 kg
Manufacturer	ECOWITT
ASIN	B0GJC19R3Q
Wireless Range	100 meters (328 feet) RF communication
Rainfall Data Update Interval	Every 49 seconds

Feature	Detail
Indoor Temp/Humidity Update Interval	Every 60 seconds
Rainfall History Storage	Last 24 months, last 730 days
Calendar Range	2017-2099

ADVANCED CONNECTIVITY OPTIONS (NOT FOR WH5370_C DISPLAY)

The WH5370H system, specifically its WH5370_C display console, does not support Wi-Fi connectivity or direct upload of data to online servers. However, the WH40H rain gauge sensor is compatible with other ECOWITT Wi-Fi gateways (e.g., GW1000, GW1100, GW2000, GW3000, HP2550, HP2560) which can enable data upload to platforms like Ecowitt.net, Weather Underground, and Weathercloud. Please note that these gateways are sold separately and are not included with the WH5370H product.

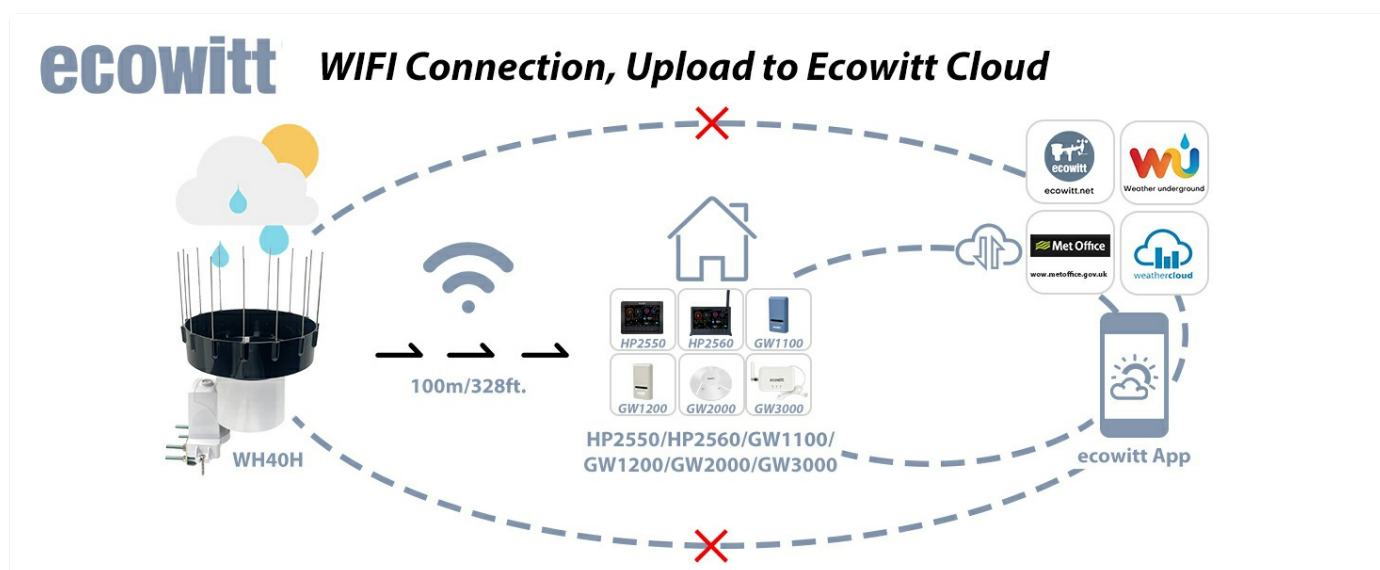
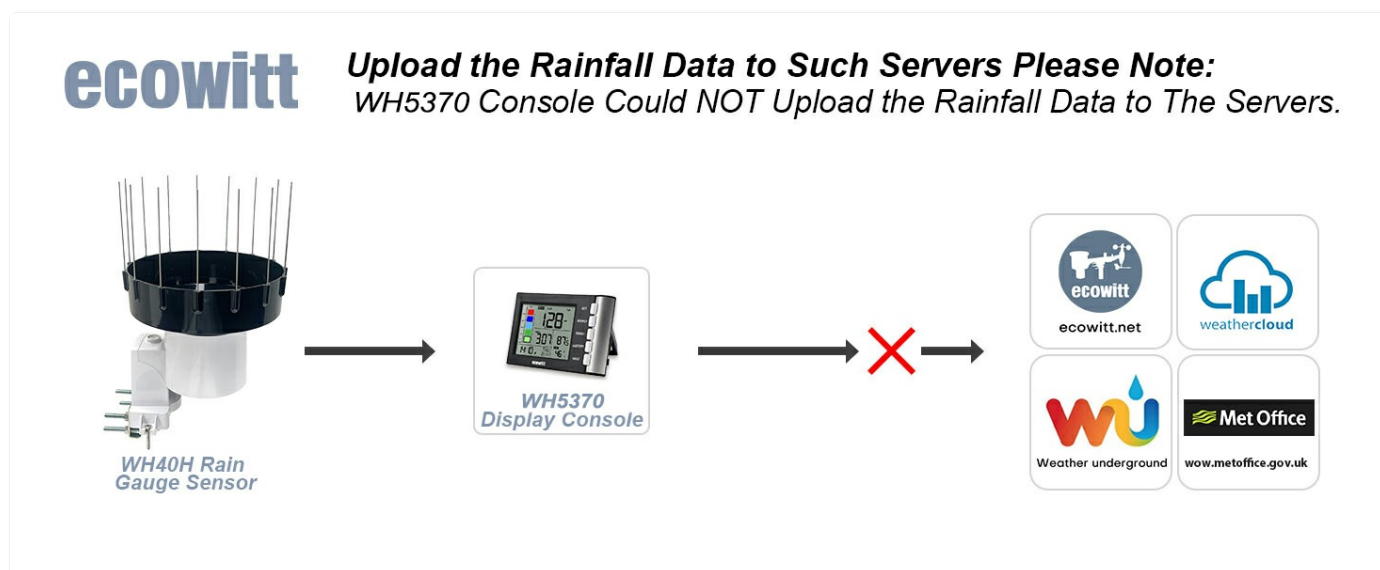


Diagram illustrating how the WH40H rain gauge sensor can connect wirelessly to various Ecowitt Wi-Fi gateways (e.g., HP2550, GW1100, GW1200) to upload data to the Ecowitt Cloud and other weather services. Note: This functionality requires a separate Ecowitt Wi-Fi gateway, not the WH5370_C display console.



Important clarification image stating that the WH5370 Console cannot upload rainfall data directly to online servers like Ecowitt.net, Weathercloud, Weather Underground, or Met Office. The WH40H sensor can connect to a WH5370 display, but the display itself does not have internet connectivity.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the ECOWITT official website or contact your retailer. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question