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› ECOWITT WH0310 Wireless Weather Station Instruction Manual

ECOWITT WH0310

ECOWITT WH0310 Wireless Weather Station Instruction Manual

Model: WH0310

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ECOWITT WH0310 Wireless Weather Station. This device monitors indoor temperature, indoor humidity, outdoor temperature, barometric pressure, and provides a weather forecast. It features a multi-channel outdoor temperature sensor for versatile placement.

Wireless Weather Station

Monitor the real time weather conditions both indoor and outdoor



300FT Transmission Range
Remote monitoring your backyard

Image: The ECOWITT WH0310 Wireless Weather Station, showing the main display unit and the compact outdoor sensor. The display shows indoor and outdoor temperature, humidity, and barometric pressure with a weather forecast icon.

PACKAGE CONTENTS

- 1x Display Console (Receiver)
- 1x Outdoor Temperature Sensor (Transmitter)
- 1x Instruction Manual

SETUP

1. Battery Installation

The weather station requires batteries for both the display console and the outdoor sensor. Batteries are not included.

- **Outdoor Sensor:** Open the battery compartment on the outdoor sensor. Insert 2x AA 1.5V batteries, observing

polarity (+/-). Close the compartment.

- **Display Console:** Open the battery compartment on the back of the display console. Insert 3x AAA 1.5V batteries, observing polarity (+/-). Close the compartment.



Image: Diagram illustrating the outdoor transmitter. Key features include (1) LED Indicator, (2) RF Channel Switch (1, 2, 3), (3) Battery Compartment, and (4) Battery Compartment Cover.

2. Sensor Channel Selection

The outdoor sensor has a switch to select one of three RF channels (1, 2, or 3). Ensure the selected channel matches the channel setting on the display console if you are using multiple sensors or need to re-sync.

3. Synchronization

After installing batteries in both units, place the outdoor sensor and display console within 1 to 3 meters of each other. The display console will automatically search for and connect to the outdoor sensor. This process may take a few minutes. Once connected, the outdoor temperature and humidity will appear on the display.

If synchronization fails, remove batteries from both units, wait 20 minutes, then reinsert them. Place the units close together and allow them to re-sync. If issues persist, try new batteries.

4. Placement

For optimal performance, place the outdoor sensor in a shaded, well-ventilated area, protected from direct sunlight and precipitation. The transmission range is up to 300 feet (91 meters) in open air. Avoid placing the sensor near large metal objects, electrical appliances, or thick walls that may interfere with the wireless signal.



Up to 3 RF Channels
Can be placed at different locations

Note: additional sensors sold separately

Image: Examples of outdoor sensor placement, including hanging from a branch, placed in a potted plant, mounted on a wall, and attached to a fence. The sensor supports up to 3 RF channels for placement in different locations (additional sensors sold separately).

The display console can be placed indoors on a desk or mounted on a wall. Ensure it is within range of the outdoor sensor.

OPERATING INSTRUCTIONS

Display Layout

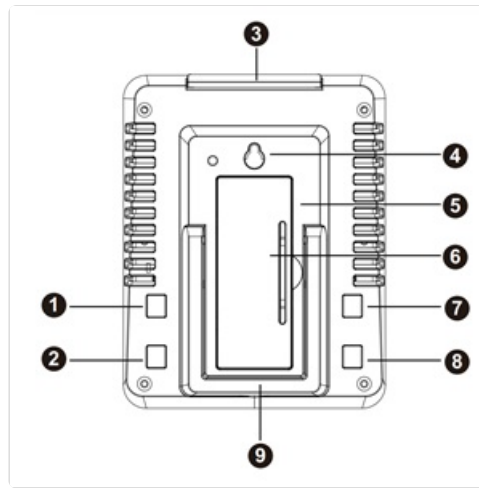


Image: Diagram of the display console's screen layout. It shows various indicators for indoor temperature (1), weather forecast (2), trend arrows (3), outdoor temperature (4), indoor humidity (5), barometric pressure (6), 24-hour pressure history (7), channel indicator (8), daily high/low outdoor temperature (9), and daily high/low indoor temperature (10).

- **1. Indoor Temperature:** Displays the current indoor temperature.
- **2. Weather Forecast:** Icons indicate predicted weather conditions (sunny, partly cloudy, cloudy, rainy).
- **3. Trend Arrows:** Indicate rising, steady, or falling trends for temperature, humidity, and pressure.
- **4. Outdoor Temperature:** Displays the current outdoor temperature from the sensor.
- **5. Indoor Humidity:** Displays the current indoor humidity level.
- **6. Barometric Pressure:** Shows the current atmospheric pressure in hPa or inHg.
- **7. 24-Hour Pressure History:** A bar graph showing pressure changes over the last 24 hours.
- **8. Channel Indicator:** Shows the active outdoor sensor channel (1, 2, or 3).
- **9. Daily High/Low Outdoor Temperature:** Records the highest and lowest outdoor temperatures for the day.
- **10. Daily High/Low Indoor Temperature:** Records the highest and lowest indoor temperatures for the day.

Backlight Function

Press the button located on the top of the display console to activate the backlight for approximately 5 seconds. This improves readability in low-light conditions.

LCD Screen with Backlight Function

Press the top button to light up screen for 5s



Night



Image: The ECOWITT WH0310 display console shown in two states: one without backlight (Day) and one with the backlight activated (Night), demonstrating improved visibility.

Unit Selection

The display console allows you to switch between Celsius (°C) and Fahrenheit (°F) for temperature, and between hPa and inHg for barometric pressure. Refer to the buttons on the back of the unit for specific controls.

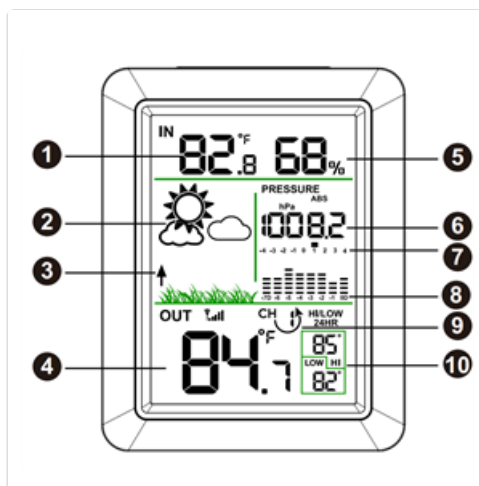


Image: Diagram of the display console's back panel. It highlights various buttons and features including (1) SET button, (2) CH/+ button, (3) MEM/- button, (4) Wall Mount Hole, (5) Stand, (6) Reset button, (7) °C/°F button, (8) ABS/REL button, and (9) Battery Compartment.

- Press the **°C/°F** button to switch temperature units.
- Press the **ABS/REL** button to switch between absolute and relative barometric pressure.
- Press the **CH/+** button to cycle through outdoor sensor channels if multiple sensors are used.
- Press the **MEM/-** button to view maximum/minimum records.

MAINTENANCE

- **Battery Replacement:** Replace batteries in both the display console and outdoor sensor when the low battery indicator appears on the display. It is recommended to replace all batteries simultaneously to ensure proper synchronization.
- **Cleaning:** Wipe the display console and outdoor sensor with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Sensor Protection:** Ensure the outdoor sensor remains protected from extreme weather conditions, such as heavy rain or direct prolonged sunlight, to extend its lifespan.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading or sensor stops working.	Batteries are low or depleted. Loss of synchronization between sensor and display. Sensor is out of range or signal interference.	Replace batteries in both the outdoor sensor and display console. Bring the outdoor sensor indoors, remove batteries from both units, wait 20 minutes, then reinsert batteries. Place units 1-3 meters apart and allow 2-3 hours for re-synchronization. Relocate the outdoor sensor closer to the display console or away from sources of interference.

Problem	Possible Cause	Solution
Outdoor temperature reading is inaccurate (e.g., 3 degrees Fahrenheit low).	Sensor placement is affecting readings.	Ensure the sensor is placed in a shaded, well-ventilated area, away from heat sources or direct sunlight. The WH0310 model does not feature user-adjustable outdoor temperature calibration. If consistent inaccuracy is observed after optimal placement, contact customer support.
Display is blank or unresponsive.	Batteries are depleted or incorrectly installed.	Check battery polarity and ensure they are correctly inserted. Replace all batteries in the display console with fresh ones.

SPECIFICATIONS

Feature	Detail
Model	WH0310
Indoor Temperature Range	32°F to 122°F (0°C to 50°C)
Outdoor Temperature Range	-40°F to 140°F (-40°C to 60°C)
Indoor Humidity Range	10% to 99% RH
Barometric Pressure Range	300.0 hPa to 1200.0 hPa
Transmission Range	Up to 300 feet (91 meters) in open air
Frequency	433 MHz
Power Source (Display)	3x AAA 1.5V batteries (not included)
Power Source (Sensor)	2x AA 1.5V batteries (not included)
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions (Display)	Approx. 3.9" x 3.1" (9.9 cm x 7.9 cm)
Dimensions (Sensor)	Approx. 2.6" x 1.7" (6.6 cm x 4.3 cm)

Portable Size

Small and compact, easy to place



Image: Diagram showing the approximate dimensions of the ECOWITT WH0310 display unit (3.9" H x 3.1" W) and the outdoor transmitter (2.6" H x 1.7" W).

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or contact ECOWITT customer service directly. Warranty terms may vary by region and retailer.

You can often find support resources, FAQs, and contact information on the official ECOWITT website or through the retailer where the product was purchased.

For additional information and product registration, visit the [ECOWITT Store on Amazon](#).

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