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› [AcuRite](#) /

› AcuRite Iris PRO+ 5-in-1 Weather Sensor User Manual

AcuRite 06014M

AcuRite Iris PRO+ (5-in-1) Weather Sensor Instruction Manual

Model: 06014M | Brand: AcuRite

PRODUCT OVERVIEW

AcuRite's Iris high-precision PRO+ (5-in-1) Weather Sensor accurately measures five different outdoor conditions including temperature, humidity, wind speed, wind direction and rain. It features two solar panels to allow the sensor's solar-powered internal aspirating fan to run more frequently. The fan improves airflow to ensure highly accurate ambient temperature readings. The sensor wirelessly transmits its readings at up to 36 second intervals over distances up to 330 feet. The sensor can be paired with an indoor digital display to view current conditions at-a-glance, or it can be used with the AcuRite smartHUB (sold separately), allowing you to monitor your sensor information from anywhere in the world using your smartphone, computer or tablet. The PRO+ 5-in-1 sensor is easy to setup, includes mounting hardware and features a 2-year battery life for maintenance-free operation. Stay informed of the changing conditions surrounding your home environment with AcuRite's 5-in-1 PRO weather sensor.

Key Features:

- High-precision 5-in-1 wireless weather sensor accurately measures the temperature, humidity, wind speed, wind direction and rain.
- Maximum ambient temperature accuracy with an internal fan powered by two solar panels. Temperature range -40 to 70 degrees celsius.
- Sensor data is transmitted every 36 seconds using 433 MHz wireless signal up to 330 foot (100 meter) range.
- Requires 4 AA alkaline or lithium batteries (Batteries not included).
- Compatible with AcuRite Access (sold separately) and any AcuRite 5-in-1 weather station display (sold separately).

SETUP AND INSTALLATION

Proper placement and installation are crucial for accurate readings from your AcuRite Iris PRO+ 5-in-1 Weather Sensor.

Unboxing and Components:

Upon unboxing, you will find the AcuRite Iris PRO+ 5-in-1 Weather Sensor unit, mounting hardware, and an instruction manual. The sensor is designed with a durable plastic body, featuring a wind vane, anemometer cups, a rain collection funnel, and dual solar panels for enhanced temperature accuracy.



Front view of the AcuRite Iris PRO+ 5-in-1 Weather Sensor, showing its various components.



Side view of the sensor, highlighting the integrated mounting bracket.

Battery Installation:

The sensor requires 4 AA batteries. For optimal performance and longevity, especially in severe temperatures, lithium batteries are recommended. The battery compartment is located on the underside of the unit. Ensure batteries are inserted with correct polarity.

Optimal Placement Guidelines:

- Mount the sensor at least 5 feet (1.5 meters) above the ground to ensure accurate readings, particularly for wind and rain.
- Place the sensor away from obstructions such as buildings, trees, or other structures that could block wind flow or rain collection.
- Ensure the solar panels are exposed to direct sunlight for efficient charging of the internal fan.
- For best temperature and humidity readings, avoid placing the sensor near heat sources (e.g., air conditioning units, vents) or large bodies of water (e.g., pools) that could affect local microclimates.
- The sensor has a wireless range of up to 330 feet (100 meters) to your display unit or smarthUB. Consider this range when choosing a mounting location.



The weather sensor mounted on a pole in a backyard, demonstrating typical outdoor placement.



Close-up view of the dual solar panels, which power the internal aspirating fan for accurate temperature readings.



Official video demonstrating the features and benefits of the AcuRite Iris Weather Station, including its ease of installation and comprehensive data collection.

OPERATING THE SENSOR

Once installed, the AcuRite Iris PRO+ 5-in-1 Weather Sensor automatically begins collecting and transmitting data to your compatible indoor display or AcuRite smartHUB.

Data Transmission:

The sensor transmits its readings wirelessly every 36 seconds using a 433 MHz signal. This frequent update rate ensures you receive near real-time weather conditions.

Measurements Provided:

- **Temperature:** Measures ambient outdoor temperature. The dual solar panels power an internal fan to improve airflow and accuracy.
- **Humidity:** Measures outdoor relative humidity.
- **Wind Speed:** The anemometer cups rotate to measure current wind speed.
- **Wind Direction:** The wind vane indicates the prevailing wind direction.
- **Rainfall:** The rain collection funnel and tipping bucket mechanism accurately measure precipitation.

Viewing Data:

To view the collected data, pair your 5-in-1 sensor with a compatible AcuRite indoor digital display (sold separately) or the AcuRite smartHUB (sold separately). The smartHUB allows you to access your weather information remotely via the AcuRite app on your smartphone, computer, or tablet.



Official video highlighting the various measurements provided by the AcuRite 06014 PRO+ 5-in-1 Weather Sensor, including temperature, humidity, wind, and rain.

MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your AcuRite Iris PRO+ 5-in-1 Weather Sensor.

- **Battery Replacement:** The sensor is designed for a 2-year battery life. Replace batteries as needed, especially if signal strength issues occur or during extreme cold weather.
- **Rain Gauge Cleaning:** Periodically check the rain collection funnel for debris (leaves, insects, etc.) that could obstruct the tipping bucket mechanism. Clear any blockages to ensure accurate rainfall measurements.
- **General Cleaning:** Gently wipe the exterior of the sensor with a damp cloth to remove dirt or grime. Avoid abrasive cleaners.
- **Solar Panel Maintenance:** Keep the solar panels clean and free of dust or obstructions to ensure efficient power generation for the internal fan.

TROUBLESHOOTING

If you experience issues with your AcuRite Iris PRO+ 5-in-1 Weather Sensor, consider the following common troubleshooting steps:

- **No Data/Intermittent Readings:**
 - Check battery levels and replace if necessary.
 - Ensure the sensor is within the 330-foot wireless range of your display/smartHUB.
 - Relocate the sensor or display to minimize interference from large metal objects, thick walls, or other electronic devices.
 - Perform a hard reset of both the sensor and the display unit (refer to the full user manual for specific steps).
- **Inaccurate Temperature/Humidity:**

- Verify the sensor is not in direct sunlight (unless designed to be, like the solar panels) or near heat/cold sources.
- Ensure the internal aspirating fan is spinning freely and not obstructed.

• **Inaccurate Wind Readings:**

- Check that the wind cups and wind vane are spinning freely and are not obstructed by debris or spiderwebs.
- Ensure the sensor is mounted high enough and away from wind-blocking structures.

• **Inaccurate Rainfall:**

- Inspect the rain collection funnel for debris.
- Ensure the sensor is level using the built-in bubble level.

For more detailed troubleshooting steps and solutions, please refer to the official User Manual PDF linked in the Support section.

SPECIFICATIONS

Feature	Detail
Model Number	06014M
Product Dimensions	10.8 x 13.8 x 5.6 inches (5.6"D x 13.8"W x 10.8"H)
Weight	3.95 Pounds
Power Source	Battery Powered (4 AA batteries required)
Battery Life	Approximately 2 years (with lithium batteries)
Connectivity Technology	433 MHz Wireless Signal
Wireless Range	Up to 330 feet (100 meters)
Temperature Range	-40 to 70 degrees Celsius
Humidity Range	1 to 99%
Material	Plastic
Color	White
Manufacturer	Chaney Instruments
Country of Origin	China

WARRANTY AND SUPPORT

The AcuRite Iris PRO+ 5-in-1 Weather Sensor is designed for durability and long-term performance. While specific warranty details are typically provided with your purchase documentation, the product is known for its robust construction and reliable operation, with many users reporting years of consistent use.

For comprehensive support, including detailed installation guides, troubleshooting tips, and product registration, please refer to the

official resources:

- **User Manual (PDF):** [Download User Manual](#)
- **Installation Manual (PDF):** [Download Installation Manual](#)
- **AcuRite Brand Store:** [Visit AcuRite Store on Amazon](#)

For direct customer service inquiries, please visit the AcuRite official website or contact their support channels as indicated in your product packaging.

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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