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AcuRite 06004M

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

Model: 06004M

Product Overview

The AcuRite Iris (5-in-1) Weather Sensor is a high-precision device designed to accurately measure various outdoor environmental conditions. It provides comprehensive data about the elements directly outside your home or chosen location.
This sensor measures five key outdoor conditions:

- Temperature
- Humidity
- Wind Speed
- Wind Direction
- Rainfall

The sensor wirelessly transmits its readings at regular intervals, allowing for convenient monitoring.

Setup and Installation

Setting up your AcuRite Iris 5-in-1 Weather Sensor is straightforward. Ensure you have the necessary components and follow these steps for optimal performance.

Components Required:

- AcuRite Iris (5-in-1) Weather Sensor (Model 06004M)
- 4 AA alkaline or lithium batteries (not included)
- Mounting hardware (included)
- Compatible AcuRite weather station display or AcuLink Internet Bridge (sold separately)

Battery Installation:

Locate the battery compartment on the underside of the sensor. Insert 4 AA batteries, ensuring correct polarity. The sensor is designed for a 2-year battery life for maintenance-free operation.

Mounting the Sensor:

The sensor comes with mounting hardware. Choose an outdoor location that is open and free from obstructions to ensure accurate readings for wind, rain, and temperature. For optimal wind direction readings, ensure the sensor's solar panel

faces south in the Northern Hemisphere. In the Southern Hemisphere, the solar panel should face north.



Figure 1: Front view of the AcuRite Iris 5-in-1 Weather Sensor, showing the wind cups, solar panel, and rain collector.



Figure 2: Underside view of the AcuRite Iris 5-in-1 Weather Sensor, revealing the battery compartment and wind vane.



Figure 3: Side view of the AcuRite Iris 5-in-1 Weather Sensor, highlighting the overall design.

Pairing with Display Unit:

After battery installation and mounting, the sensor will begin transmitting data. Ensure your indoor display unit is powered on and within range. Most AcuRite display units will automatically detect and pair with the sensor. If pairing issues occur, check the ABC switches on both the sensor and the display to ensure they match.

Operating the Sensor

Once installed and paired, your AcuRite Iris 5-in-1 Weather Sensor will continuously monitor and transmit outdoor conditions.

Data Transmission:

The sensor wirelessly transmits data every 36 seconds using a 433 MHz wireless signal. The transmission range is up to 330 feet (100 meters) under ideal conditions.

Sensor Components and Functions:

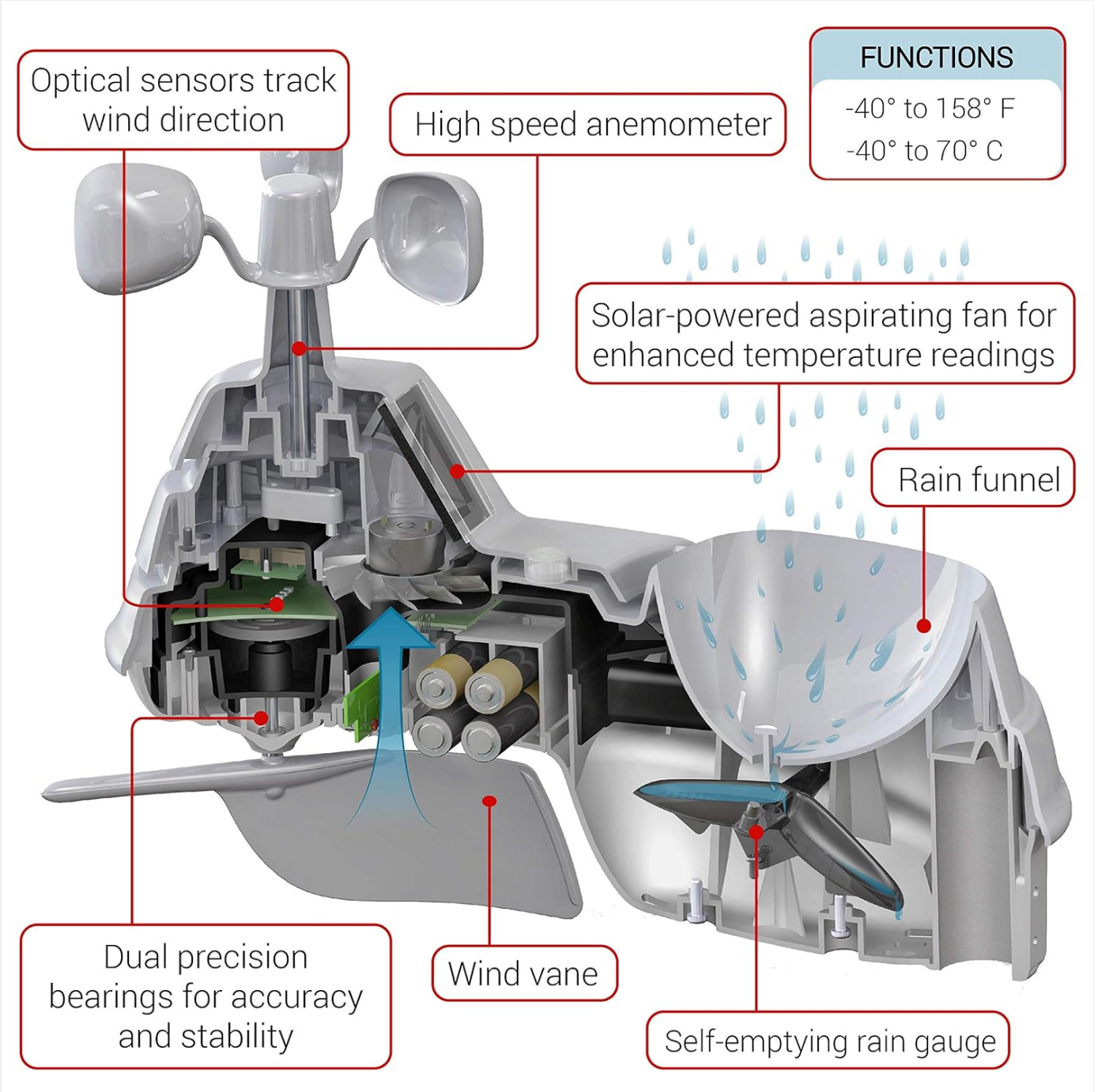


Figure 4: Internal components and functions of the AcuRite Iris 5-in-1 Weather Sensor.

- **High Speed Anemometer:** Measures wind speed.
- **Optical Sensors:** Track wind direction.
- **Rain Funnel & Self-Emptying Rain Gauge:** Collects and measures rainfall.
- **Solar-Powered Aspirating Fan:** Enhances temperature readings by drawing air over the temperature sensor.
- **Dual Precision Bearings:** Provide accuracy and stability for wind measurements.
- **Wind Vane:** Indicates wind direction.

The single solar panel powers the internal fan and helps extend battery life. For models with dual solar panels (Pro versions), this design further maximizes the accuracy of ambient temperature readings.

Remote Monitoring (Optional):

For remote monitoring, the sensor can be used with the AcuLink Internet Bridge (sold separately). This allows you to monitor weather information and customize real-time alerts from anywhere in the world using a smartphone, computer, or

tablet.

Maintenance

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

- **Battery Replacement:** Replace the 4 AA batteries approximately every two years, or when the low battery alert is indicated on your display unit.
- **Cleaning:** Periodically clean the rain collector funnel and ensure the wind cups and wind vane spin freely. Remove any debris that may obstruct the sensors.
- **Rain Gauge Calibration:** It is recommended to calibrate your rain gauge periodically to ensure accurate rainfall measurements. Refer to your display unit's manual for specific calibration instructions.
- **Sensor Placement:** Ensure the sensor remains in an optimal location, free from new obstructions that might affect readings.

Troubleshooting

If you encounter issues with your AcuRite Iris 5-in-1 Weather Sensor, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No data or intermittent data on display.	**Range:** Ensure the sensor is within 330 feet (100 meters) of the display unit. **Interference:** Move the sensor or display away from large metal objects, thick walls, or electronic devices that may cause interference. **Batteries:** Check if batteries are low or incorrectly installed. Replace if necessary. **ABC Switch:** Verify that the ABC switch on both the sensor and display unit are set to the same letter (A, B, or C).
Temperature reading shows -40°F.	This often indicates a failure of the temperature sensor. The sensor unit may need to be replaced.
Wind cups or wind vane not spinning freely.	Check for physical obstructions like debris, spiderwebs, or ice. Gently clean the moving parts. If parts are broken (e.g., wind vane), the unit may require replacement.
Inaccurate rainfall readings.	**Obstruction:** Ensure the rain collector funnel is clear of leaves or debris. **Calibration:** Recalibrate the rain gauge as per your display unit's instructions.

For further assistance, consult the full user manual available online or contact AcuRite customer support.

Specifications

Feature	Detail
Model Number	06004M
Product Dimensions	5.6"D x 13.8"W x 10.8"H (10.8 x 13.8 x 5.6 inches)
Weight	3.9 Pounds
Power Source	4 AA batteries (required)

Feature	Detail
Material	Polyresin
Color	White
Temperature Accuracy	+/- 2 degrees Fahrenheit
Wireless Frequency	433 MHz
Wireless Range	Up to 330 feet (100 meters)
Data Transmission Interval	Every 36 seconds

Additional Resources and Support

For a complete guide and further details, please refer to the official user manual:
AcuRite Iris (5-in-1) Weather Sensor User Manual (PDF)
You can also visit the official AcuRite store for product information and support:
Visit the AcuRite Store

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