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› AcuRite Iris (5-in-1) Wireless Weather Station and Rain Gauge Bundle User Manual

AcuRite Iris (5-in-1) / 01512M & 00850A2

AcuRite Iris (5-in-1) Wireless Weather Station and Rain Gauge Bundle User Manual

Model: Iris (5-in-1) / 01512M & 00850A2

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your AcuRite Iris (5-in-1) Indoor/Outdoor Wireless Weather Station and the accompanying 5-inch Capacity Easy-to-Read Magnifying Rain Gauge. This bundle offers detailed hyperlocal weather information, including indoor and outdoor temperature, humidity, wind speed and direction, and rainfall.



Image: The AcuRite Iris 5-in-1 Weather Station display unit and outdoor sensor, alongside the separate 5-inch magnifying rain gauge.

PACKAGE CONTENTS

- AcuRite Iris (5-in-1) Outdoor Sensor
- AcuRite Iris Digital Display Unit
- AcuRite 5" Capacity Easy-to-Read Magnifying Rain Gauge
- Mounting Hardware for 5-in-1 Sensor
- Power Cord for Display Unit
- Instruction Manual (this document)

1. AcuRite Iris (5-in-1) Outdoor Sensor Setup

The 5-in-1 sensor measures outdoor temperature, humidity, wind speed, wind direction, and rainfall. For optimal performance, choose a location that is:

- At least 5 feet (1.5 meters) off the ground.
- Away from heat sources (e.g., exhaust vents, air conditioners).
- Free from obstructions that could block wind or rain (e.g., trees, buildings).
- Within 330 feet (100 meters) of the display unit for wireless communication.
- Ensure the sensor is level for accurate rain and wind measurements.

Battery Installation: The sensor requires 4 AA batteries (not included). Install them into the battery compartment, observing polarity.



Image: The AcuRite Iris 5-in-1 Weather Station display and outdoor sensor, illustrating key features such as temperature, humidity, wind,

and real-time weather ticker.

2. AcuRite Digital Display Unit Setup

Place the display unit indoors, away from direct sunlight and heat sources. Connect the included power cord to the display unit and a power outlet. The display also uses 3 AA batteries (not included) for backup power during outages. Once powered on, the display will automatically search for the 5-in-1 sensor. This may take a few minutes. Ensure both units are within range.



Weather, Humidity & Wind Information

Rising, falling or steady trend indicators



Dew Point, Weather Forecast & Rainfall

Visual depiction of current and upcoming weather conditions, rainfall and previous rain totals



Date and Time

Convenience in an all-in-one data center



Image: A close-up of the AcuRite Iris 5-in-1 Weather Station display, highlighting sections for weather, humidity & wind information, dew point, weather forecast & rainfall, and date & time.

3. AcuRite 5" Capacity Magnifying Rain Gauge Setup

The rain gauge is designed for easy, accurate rainfall measurement. It can be mounted or placed directly in the ground.

- **Placement:** Choose an open area away from buildings, trees, or other obstructions that could interfere with rainfall collection.

- **Mounting:** The rain gauge features an integrated hang hole for easy mounting to a fence post or wall using screws (not included).
- **Ground Placement:** It can also be placed directly into soft ground.





Image: A clear view of the AcuRite 5-inch Capacity Easy-to-Read Magnifying Rain Gauge, showing its measurement markings and design.

OPERATING INSTRUCTIONS

AcuRite Iris Digital Display Unit

The display unit provides real-time weather data and forecasts. Key features include:

- **Indoor/Outdoor Temperature & Humidity:** Displays current readings for both indoor and outdoor environments.
- **Wind Speed & Direction:** Shows current wind speed and direction, with historical data available.
- **Rainfall:** Tracks daily, weekly, and historical rainfall totals.
- **Barometric Pressure:** The unit takes 4,000 readings at 12-minute intervals to calculate a running average and compute the barometric pressure for your exact location. This self-calibrating technology improves forecast accuracy over time.
- **Weather Forecast:** Provides a 12 to 24-hour weather forecast based on barometric pressure changes.
- **Date & Time:** Automatically updates for convenience.
- **Weather Ticker:** A scrolling text display provides additional information like "feels like" temperature, dew point, and historical highs/lows.

AcuRite 5" Capacity Magnifying Rain Gauge

To read the rainfall, simply observe the water level against the magnified markings on the side of the gauge. The numbers are enlarged for easy visibility. The gauge measures up to 5 inches of rainwater. After recording, empty the gauge to prepare for the next rainfall.

MAINTENANCE

AcuRite Iris (5-in-1) Outdoor Sensor

- **Cleaning:** Periodically clean the sensor, especially the rain collection funnel and debris screen, to ensure accurate rainfall measurements. Use a soft, damp cloth.
- **Battery Replacement:** Replace batteries approximately every 2 years, or when the low battery indicator appears on the display unit. Use fresh, high-quality alkaline or lithium batteries.
- **Winter Care:** In freezing conditions, ensure the rain gauge funnel is clear of ice and snow.

AcuRite 5" Capacity Magnifying Rain Gauge

- **Cleaning:** Rinse the rain gauge with water periodically to remove dirt or debris that may accumulate.

- **Durability:** The acrylic construction is weather-resistant and designed for long-term outdoor use.

TROUBLESHOOTING

Problem	Possible Solution
No outdoor data on display	Ensure batteries are correctly installed in the 5-in-1 sensor and display. Check that the sensor and display are within wireless range (max 330 ft / 100 m). Relocate units to reduce interference from electronics or large metal surfaces. Perform a hard reset: Remove batteries from both units, wait 1 minute, then reinsert.
Inaccurate temperature/humidity	Ensure sensor is not in direct sunlight or near heat sources. Verify sensor is properly ventilated.
Inaccurate wind readings	Ensure sensor is mounted level and free from obstructions. Check for debris in the wind cups or vane.
Inaccurate rainfall readings	Clear any debris from the rain collection funnel and tipping bucket mechanism on the 5-in-1 sensor. Ensure the 5-in-1 sensor is level. For the separate rain gauge, ensure it's in an open area and not overflowing.

SPECIFICATIONS

- **Brand:** AcuRite
- **Model (Weather Station):** 01512M (Iris 5-in-1)
- **Model (Rain Gauge):** 00850A2
- **Power Source:** Battery Powered (4 AA for sensor, 3 AA for display backup), AC Power (for display)
- **Special Features:** Thermometer, Barometer, Hygrometer, Anemometer, Rain Gauge
- **Material:** Plastic, Acrylic
- **Connectivity Technology:** Wireless
- **Temperature Accuracy:** $\pm 1^{\circ}\text{C}$
- **Display Type:** LCD
- **Wireless Range:** Up to 330 feet (100 meters)

WARRANTY AND SUPPORT

AcuRite products typically come with a 1-year limited warranty. Please refer to the official AcuRite website or the full user manual for detailed warranty information and terms.

For further assistance, troubleshooting, or to access the complete user manual, please visit the official AcuRite support website or refer to the PDF document provided by the manufacturer:

[Download Full User Manual \(PDF\)](#)

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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.

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