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ACU·RITE
06004 Iris 5-in-1
Weather Sensor

AcuRite 06004 Iris 5-in-1 Weather Sensor User Manual

Contents

ACU·RITE®

AcuRite 06004 Iris 5-in-1 Weather Sensor User Manual

Package Contents

1. AcuRite Iris Sensor
2. Mounting Hardware
3. Sensor Mounting Bracket
4. Instruction Manual

IMPORTANT
PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION
Register online to receive 1-year warranty protection at **www.acurite.com/product-registration**

Questions? Visit **www.acurite.com/support**

Features & Benefits

AcuRite Iris SENSOR

1. Rainfall Collector Funnel
2. **Solar Cell Panel**

    Converts sunlight into power to run internal aspirating fan. Internal Aspirating Fan (not shown) Draws ambient air into sensor to reduce solar radiation heating, resulting in more accurate temperature measurement.
3. **A-B-C Switch**

    ID code that must match display's A-B-C switch to ensure units synchronize.
4. Battery Compartment
5. Temperature & Humidity Sensors (internal)
6. Mounting Point
7. Wind Speed Anemometer
8. Wind Direction Vane
9. Mounting Bracket
10. **Mounting Hardware**

    Includes 5 anchors & the following screws:

    - **Qty Diameter Length**
        - 5 #4 3/4"
        - 1 #4 1/2"
        - 1 #6 1/2"
11. **Debris Filter**

    Pre-installed to prevent debris from entering the rain gauge.

SETUP

AcuRite Iris Sensor Setup
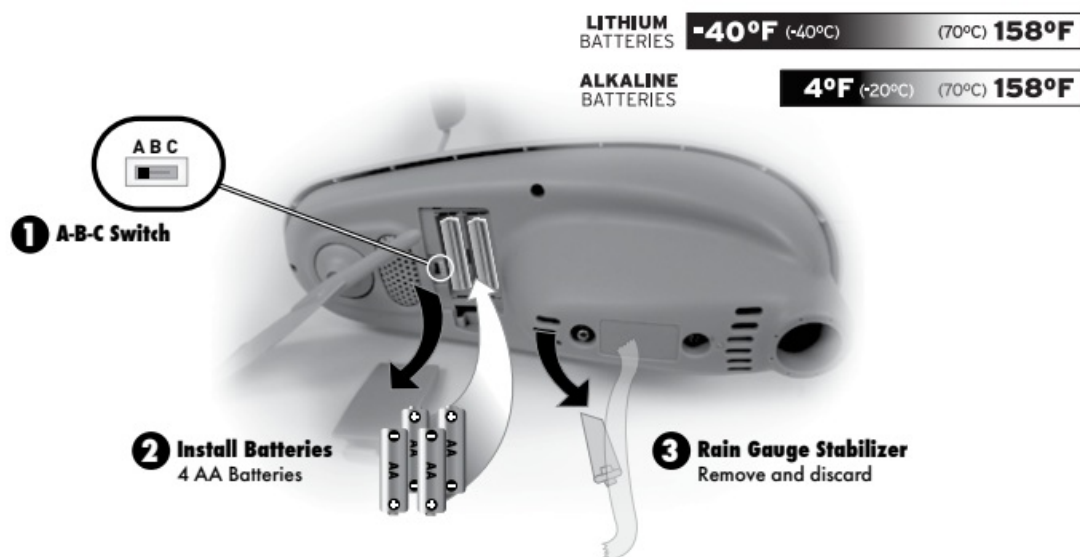
1. **Set the A-B-C Switch**

   Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B or C. You must select the same letter choice for both the sensor and the companion unit (not included) in order for the units to synchronize. The AcuRite Iris sensor requires lithium batteries in low-temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the AcuRite Iris sensor for temperatures below -4ºF / -20ºC.

2. **Install or Replace Batteries**

   Batteries MUST be installed for this product to operate. AcuRite recommends high quality alkaline or lithium batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended.

3. **Remove Rain Gauge Stabilizer**

   Locate and remove the rain gauge stabilizer (plastic tab) taped into the bottom of the sensor. The rain gauge will not function until this is removed.

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

BATTERY SAFETY: Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment that will not be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of the sensor is critical to the accuracy and performance of this product.

AcuRite Iris Sensor Placement

The AcuRite Iris sensor is designed to remain outdoors all year long. Choose an open location with no obstructions above or around the sensor for the most accurate measurements.

Important Placement Guidelines

Sensor must be within 330 feet (100 m) of companion unit (not included).

- **MAXIMIZE WIRELESS RANGE**

  Place sensor away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.

- **LOCATE AWAY FROM HEAT SOURCES**

  Position sensor away from heaters, air conditioners, chimneys, exhaust vents, asphalt and concrete (surfaces that radiate heat).

- **LOCATE AWAY FROM HUMIDITY SOURCES**

  Avoid installing the sensor near pools, spas, or other bodies of water. Water sources may impact humidity accuracy.

- **LOCATE AWAY FROM SPRINKLER HEADS**

  DO NOT install the sensor where it will be sprayed by a sprinkler system. This may force water inside the sensor.

- **LOCATE AWAY FROM WIND & RAIN OBSTRUCTIONS**

  DO NOT mount the sensor with obstructions around it. Consider a location that is a wide open area, with few structures around to ensure accurate wind measurement.

AcuRite Iris Sensor Installation Guidelines

- **INSTALLATION HEIGHT**

  Mount the sensor at least 5 feet (1.5 meters) off the ground in an open area. Higher is better for wind measurement- the National Weather Service recommends 33 feet (10 meters) high!

- **MOUNTING OPTIONS**

  The included mounting bracket is designed to screw directly onto wooden posts or surfaces that are 2"x 4" or larger. The sensor can also be mounted directly to 3/4" steel pipe (available at hardware stores and home centers).

- **LEVEL INSTALLATION**

  Use the bubble level on the top of the sensor to ensure level installation for accurate wind and rain measurement.
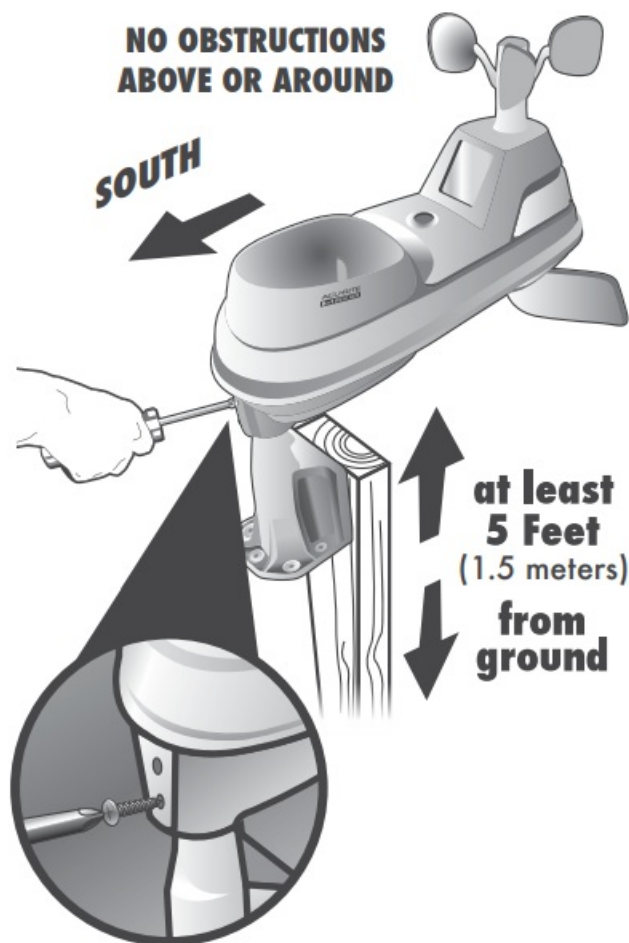
- **SOLAR CELL INSTALLATION**

  Install the sensor with the solar cell facing SOUTH. This ensures the cell receives as much sun as possible and orients wind direction.

AcuRite Iris Sensor Installation

1. Fasten mounting base (included) to a post or pole (not included) using the 4 longer screws included in the hardware bag.
2. Insert the mounting base into the hole on the bottom of the sensor.
3. Make sure the arrows on the top of the sensor are pointed in the proper direction and the bubble level is

centered. The solar cell should be facing south to properly orient the wind direction.

4. Fasten the sensor into the mounting base using the 2 shorter screws included in the hardware bag.

The AcuRite Iris sensor is now ready to use.

Basic Setup is Complete
The AcuRite Iris sensor will now synchronize with the companion unit. It may take a few minutes for synchronization to complete.

Calibrate the Rain Gauge

The rain gauge on the AcuRite Iris sensor can be calibrated to improve accuracy.

Items Needed: AcuRite Iris sensor, companion unit, plastic cup, pin, screw driver

1. First, ensure AcuRite Iris sensor is perfectly level using built-in bubble level.
2. Use compatible companion unit or AcuRite software to monitor during calibration.
3. Make a pin hole in the bottom of a plastic cup. Hold the cup over the rain gauge and fill it with exactly 1 cup (8oz) of water, allowing the water to drip into the rain gauge. You should hear the internal buckets tip and see water drain through the rain gauge.
4. A few seconds after each bucket tip, the companion unit displays rainfall in approximately 0.01" or more increments.
5. The cup of water should take more than 20 minutes to empty; a quicker period will result in inaccurate calibration. Try to simulate a normal steady rainfall. When cup is empty of water, companion unit should register

1.06"

Tips
There should be nearly an equal number of water drops (about 25 water drops) between bucket tips. If not, adjust the calibration screws on the bottom of the AcuRite Iris sensor until an equal number of water drops are tipping the buckets.

Adjustment
If the rain gauge doesn't register close to 1.06", make an EQUAL adjustment to the two calibration screws on the bottom of the AcuRite Iris sensor. Turning screws clockwise increases rainfall; counter clockwise decreases rainfall.

- To adjust the rainfall reading by 2% turn both screws 1/8 of a turn.
- To adjust the rainfall reading by 4% turn both screws 1/4 of a turn.
- To adjust the rainfall reading by 8% turn both screws 1/2 of a turn.

Specifications

TEMPERATURE RANGE	Outdoor: -40°F to 158°F; -40°C to 70°C
HUMIDITY RANGE	Outdoor: 1% to 99%
WIND SPEED	0 to 99 mph; 0 to 159 kph; 0 to 86 knots
WIND DIRECTION INDICATORS	16 points
RAINFALL	0.01 inches (0.25 mm) and up
WIRELESS RANGE	330 ft / 100 m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	4 x AA alkaline or lithium batteries
DATA REPORTING	Wind Speed: 18 second updates; Direction: 36 second updates Outdoor temperature & humidity: 36 second updates

Customer Support
AcuRite customer support is committed to providing you with best-in-class service. For assistance, please have the model number of this product available and contact us in any of the following ways:

Chat with our support team at **www.acurite.com/support**

Email us at **support@chaney-inst.com**

- Installation Videos
- Instruction Manuals
- Replacement Parts

Limited 1-Year Warranty

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References

- **User Manual**