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AcuRite 06045M

AcuRite 06045M Lightning Detector Sensor User Manual

Model: 06045M

INTRODUCTION

The AcuRite 06045M Lightning Detector Sensor is designed to monitor lightning strikes, outdoor temperature, and humidity. This sensor wirelessly transmits data to compatible AcuRite weather stations (sold separately), providing essential environmental information. This manual provides instructions for the setup, operation, and maintenance of your sensor.

PRODUCT OVERVIEW

The AcuRite 06045M sensor features a compact, weather-resistant design with integrated mounting options. It includes indicators for lightning strikes and wireless signal strength.





Figure 1: AcuRite 06045M Sensor Components. This image highlights the Easy-Mount Hanger at the top, the Lightning Strike Indicator which flashes and beeps when lightning is detected within 25 miles (40 km), and the Wireless Signal & Interference Indicator.

SETUP

1. Battery Installation

1. Locate the battery compartment on the back of the sensor.
2. Remove the battery compartment cover.
3. Insert 4 AA alkaline or lithium batteries (not included) according to the polarity markings (+/-).
4. Replace the battery compartment cover securely.

2. Mounting the Sensor

For optimal performance, choose a location that is:

- Outdoors, away from direct sunlight to ensure accurate temperature readings.
- At least 5 feet (1.5 meters) off the ground.
- Away from sources of electrical interference such as microwave ovens, cell phones, Wi-Fi routers, and cordless drills, which can cause false lightning strike detections.
- Within 330 feet (100 meters) of your compatible AcuRite weather station for reliable wireless transmission.

Use the integrated easy-mount hanger to hang the sensor on a suitable surface like a post or tree branch.



Figure 2: Sensor mounted on an outdoor post. The sensor is shown attached to a wooden post, overlooking a distant city landscape, demonstrating a typical outdoor mounting scenario.



Figure 3: Sensor hanging from a tree branch. The sensor is suspended from a branch amidst green leaves, illustrating another flexible outdoor mounting option.

OPERATION

Lightning Detection

The sensor detects lightning strikes within a 25-mile (40-kilometer) radius. When lightning is detected, the Lightning Strike Indicator will flash, and an audible alarm will sound. The sensor transmits data every 24 seconds under normal conditions, and every 8 seconds once lightning is detected.

Temperature and Humidity Monitoring

The built-in thermometer and hygrometer accurately measure outdoor temperature and humidity conditions. These readings are transmitted wirelessly to your compatible AcuRite weather station.

MAINTENANCE

Cleaning

Clean the sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents that may damage the plastic housing or electronic components.

Battery Replacement

Replace batteries when the low battery indicator appears on your compatible display unit. Always replace all 4 AA batteries at the same time with fresh batteries.

TROUBLESHOOTING

- **No Data Transmission:** Ensure batteries are fresh and correctly installed. Verify the sensor is within range of the compatible weather station (up to 330 feet). Check for obstructions between the sensor and the display unit.
- **Inaccurate Temperature/Humidity Readings:** Ensure the sensor is mounted in a shaded area, away from direct sunlight, which can artificially inflate temperature readings.
- **False Lightning Detections:** The sensor is sensitive to electromagnetic interference. Avoid placing the sensor near appliances such as microwave ovens, cell phones, Wi-Fi routers, or other electronic devices that emit radio frequency energy. Position the sensor well away from the base unit if experiencing frequent false positives.
- **Sensor Not Connecting:** If the sensor does not connect to your AcuRite display, try resetting both units. Remove batteries from both, wait a few minutes, then reinsert batteries into the sensor first, followed by the display unit.

SPECIFICATIONS

Model Number	06045M
Lightning Detection Range	Up to 25 miles (40 kilometers)
Temperature Range	Refer to compatible display unit specifications
Temperature Accuracy	+/- 2 degrees Fahrenheit (+/- 0.5 degrees Celsius)
Humidity Range	Refer to compatible display unit specifications
Wireless Range	Up to 330 feet (100 meters)
Power Source	4 x AA alkaline or lithium batteries
Data Transmission Interval	Every 24 seconds (every 8 seconds when lightning detected)
Dimensions	0.9" D x 2.63" W x 5.88" H
Material	Plastic





Figure 4: Sensor dimensions. The image shows the sensor with its approximate measurements: 0.9 inches deep, 2.62 inches wide, and 5.88 inches high.

COMPATIBILITY

This replacement lightning detector sensor is compatible with the following AcuRite weather station models:

- 01021, 01021M
- 01022, 01022M
- 02080
- 06046
- 06047, 06047M
- 06058M

For remote monitoring capabilities, the sensor can be paired with AcuRite Access (sold separately) to view data via an app and receive alerts.

SUPPORT AND WARRANTY

For product assistance or compatibility inquiries, please contact AcuRite Customer Support at (877) 221-1252. Information regarding product warranty can typically be found on the manufacturer's official website or within the product packaging. Please refer to these resources for specific warranty terms and conditions.

