ACU>RITE®

Instruction Manual

High Resolution Weather Station Display

model 06058



This product requires an AcuRite 5-in-1 Weather Sensor (sold separately) to be operational.

CONTENTS

Unpacking Instructions 2
Package Contents 2
Product Registration 2
Features & Benefits:..... 4
Setup 7
Placement Guidelines 8
Using the Weather Station..... 9
Expand the System..... 11
Troubleshooting 12
Care & Maintenance..... 14
Specifications..... 14
FCC Information 14
Customer Support 15
Warranty..... 15

Questions? Contact Customer Support at (877) 221-1252 or visit www.**AcuRite**.com.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

ACURITE

Congratulations on your new AcuRite product. To ensure the best possible product performance, please read this manual in its entirety and retain it for future reference.

Unpacking Instructions

Remove the protective film that is applied to the LED screen prior to using this product. Locate the tab and peel off to remove.

Package Contents

1. Display with Tabletop Stand
2. Power Adapter
3. Mounting Bracket
4. Instruction Manual

IMPORTANT PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

Register online to receive 1 year warranty protection

www.**AcuRite**.com

Features & Benefits
Display



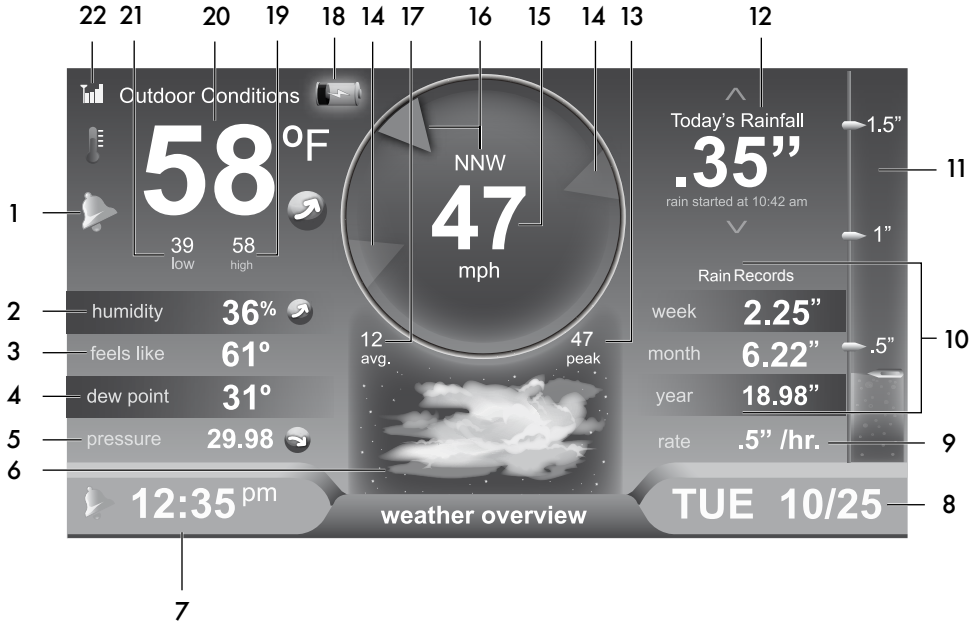
BACK OF DISPLAY

1. **Plug-in for Power Adapter**
2. **Display Stand**
3. **Mounting Bracket**
   For easy wall mounting.

FRONT OF DISPLAY

4. **⚙ Button**
   For menu access and setup preferences.
5. **∨ Button**
   For setup preferences and cycling through messages on the Weather Overview dashboard.
6. **▭ Button**
   Press to view a different dashboard.
7. **∧ Button**
   For setup preferences and cycling through messages on the Weather Overview dashboard.
8. **✓ Button**
   For setup preferences.

Features & Benefits
Weather Overview Dashboard



1. **Alarm ON Indicator**
   Indicates alarm is activated to emit an audible alert when conditions exceed your presets (see page 9).
2. **Current Outdoor Humidity**
   Arrow icon indicates direction humidity is trending.
3. **Current "Feels Like" Temperature**
4. **Seasonal Information**
   Heat Index calculation displays when temperature is 80°F (27°C) or higher. Dew Point calculation displays when temperature is 79°F (26°C) or lower. Wind chill calculation displays when temperature is 40°F (4°C) or lower.
5. **Barometric Pressure**
   Arrow icon indicates direction pressure is trending.
6. **12 to 24 Hour Weather Forecast**
   Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.
7. **Clock**
8. **Date & Day of the Week**
9. **Rainfall Rate/Most Recent Rainfall**
   Displays rainfall rate of current rain event, or total from the most recent rainfall.
10. **Rainfall History**
    Displays rainfall records for current week, month & year.
11. **Today's Rain Indicator**
    Illustrates rainfall collection up to 2 inches (50 mm) once rain is detected.
12. **Messages**
    Displays weather information and messages (see page 14).
13. **Peak Wind Speed**
    Highest speed from the last 60 minutes.
14. **Previous 2 Wind Directions**
15. **Current Wind Speed**
    Background color changes based on current wind speed.
16. **Current Wind Direction**
17. **Average Wind Speed**
    Average wind speed over the past 2 minutes.
18. **Sensor Low Battery Indicator**
19. **Outdoor High Temperature Record**
    Highest temperature recorded since midnight.
20. **Current Outdoor Temperature**
    Arrow indicates direction temperature is trending.
21. **Outdoor Low Temperature Record**
    Lowest temperature recorded since midnight.
22. **5-in-1 Sensor Signal Strength**

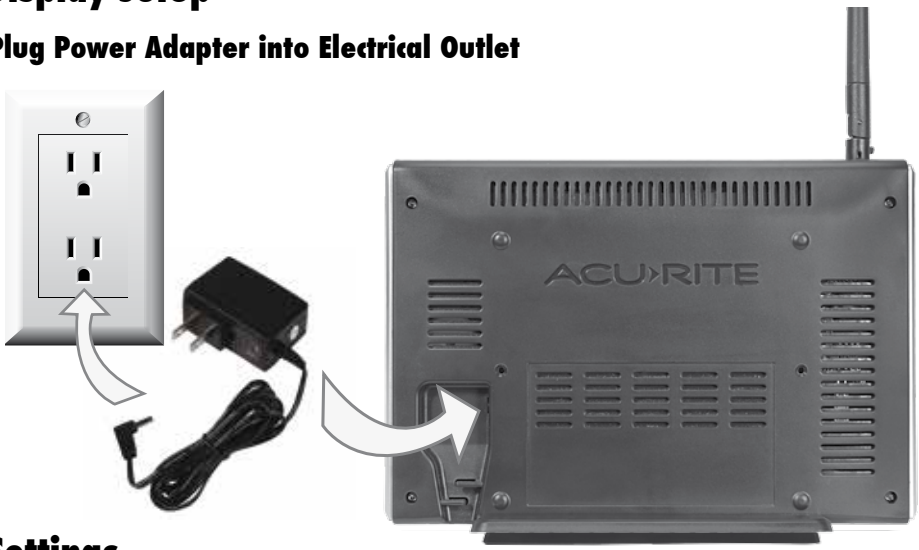
Features & Benefits
Indoor Overview Dashboard



1. **Current Indoor Temperature**
   Arrow indicates direction temperature is trending.
2. **Daily High & Low Temperature Records**
   Highest and lowest temperature recorded since midnight.
3. **Daily High & Low Humidity Records**
   Highest and lowest humidity recorded since midnight.
4. **Current Indoor Humidity**
   Arrow indicates direction humidity is trending.
5. **Humidity Level Indicator**
   Indicates a high, low or ideal humidity comfort level.

Display Setup

Plug Power Adapter into Electrical Outlet



Settings

After powering on for the first time, the display will automatically enter setup mode. Follow the on-screen instructions to set up the display.

To adjust the currently selected item, press and release the "∧" or "∨" buttons.

To save your adjustments, press and release the "✓" button again to adjust the next preference. The preference set order is as follows:

TIME ZONE (PST, MST, CST, EST, AST, HAST, NST, AKST)
AUTO DST (Daylight Saving Time YES or NO)*
CLOCK HOUR
CLOCK MINUTE
CALENDAR MONTH
CALENDAR DATE
CALENDAR YEAR
PRESSURE UNITS (inHg or hPa)
TEMPERATURE UNITS (°F or °C)
WIND SPEED UNITS (mph, km/h, knots)
RAINFALL UNITS (inches or mm)
DISTANCE UNITS (miles or kilometers)
AUTO DIM (YES or NO)**
AUTO CYCLE (OFF, 15 sec., 30 sec., 60 sec., 2 min., 5 min.)
ALERT VOLUME

*If you live in an area that observes Daylight Saving Time, DST should be set to YES, even if it is not currently Daylight Saving Time.

**For more information see page 12, under "Display".

Enter setup mode at any time by pressing the "⚙" button to access the menu, then navigate to "Setup" and press and release the "✓" button.

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and the sensor are critical to the accuracy and performance of this unit.



Display Placement

Place the display in a dry area free of dirt and dust. Display stands upright for tabletop use and is wall-mountable.

Important Placement Guidelines

- To ensure accurate temperature measurement, place units out of direct sunlight and away from any heat sources or vents.
- Display and sensor(s) must be within 330 feet (100 m) of each other.
- To maximize wireless range, place units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.
- To prevent wireless interference, place units at least 3 feet (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).

Using the Weather Station



Navigate to the main menu at any time by pressing the "⚙" button. From the main menu, you can view records, set alarms, setup an additional sensor and more.

1. Records

Access the "Records" sub-menu to view high and low values recorded for each location by date and view trends for the sensor's readings on a graphic chart.

2. Alarms

Access the "Alarms" sub-menu to set and edit alarm values, including temperature, humidity, wind speed and rainfall. The display also includes an alarm clock feature (time alarm) and storm alarm (activated when barometric pressure drops).

3. Setup

Access the "Setup" sub-menu to enter the initial setup process.

4. Display

Access the "Display" sub-menu to adjust display settings (brightness, contrast, tint), display mode (screen cycle) and backlight (auto dim, sleep mode).

When auto dim mode is activated in display setup, the backlight automatically dims the brightness based on the time of day. When "Sleep Mode" is activated, the display automatically dims during the timeframe you choose and shows only the most important readings for at-a-glance viewing.

AUTO DIM MODE: Automatically adjusts display brightness based on time of day.
6:00 a.m. - 9:00 p.m. = 100% brightness
9:01 p.m. - 5:59 a.m.= 15% brightness

5. Sensor
Access the "Sensor" sub-menu to add, remove or view information about a sensor.

6. Units
Access the "Units" sub-menu to change measurement units for barometric pressure, temperature, wind speed, rainfall and distance.

7. Calibrate
Access the "Calibrate" sub-menu to adjust display or sensor data. First, select the display or sensor for which you wish to calibrate readings. Second, select the reading you wish to calibrate. Lastly, follow the on-screen prompts to adjust the value.

8. Factory Reset
Access the "Factory Reset" sub-menu to revert the display back to factory defaults. Follow the on-screen prompts to perform the reset.

Weather Overview Dashboard

Weather Forecast

AcuRite's patented Self-Calibrating Forecasting provides your personal forecast of weather conditions for the next 12 to 24 hours by collecting data from a sensor in your backyard. It generates a forecast with pinpoint accuracy - personalized for your exact location.

Self-Calibrating Forecasting uses a unique algorithm to analyze changes in pressure over a time period (called Learning Mode) to determine your altitude. After 14 days, the self-calibrated pressure is tuned in to your location and the unit is ready for superior weather prediction.

Moon Phase

The moon phase is displayed between 7:00 p.m. to 5:59 a.m. when conditions allow for moon visibility. The phases of the moon are conveyed through simple lunar phase icons:



Expand the System

This weather station measures temperature, humidity, wind speed, wind direction and rainfall. The weather station can be expanded to include lightning detection by connecting a compatible AcuRite Lightning Sensor (optional; sold separately).

Compatible Sensor

Lightning Sensor
Model 06045



Compatible Lightning Sensor available at: **www.AcuRite.com**

NOTE: Access the "Sensor" sub-menu to add sensor(s) to the display if being connected after initial setup.

Messages

This display shows real-time weather information and alert messages on the Weather Dashboard. Manually cycle through all available messages by pressing and releasing the "^" or "v" buttons while viewing the Weather Overview dashboard.

Default messages are pre-loaded as follows:

HEAT INDEX - XX
WIND CHILL - XX
DEW POINT - XX
IT FEELS LIKE XX OUTSIDE
TODAY'S HIGH HUMIDITY . . . OUTDOOR XX / INDOOR XX
TODAY'S LOW HUMIDITY . . . OUTDOOR XX / INDOOR XX
TODAY'S HIGH TEMP. . . OUTDOOR XXX / INDOOR XXX
TODAY'S LOW TEMP. . . OUTDOOR XXX / INDOOR XXX
7 DAY HIGH TEMP. XX – MM/DD
7 DAY LOW TEMP. XX – MM/DD
30 DAY HIGH TEMP. XX – MM/DD
30 DAY LOW TEMP. XX – MM/DD
ALL TIME HIGH TEMP. XXX... RECORDED MM/DD/YY
ALL TIME LOW TEMP. XXX... RECORDED MM/DD/YY
24 HOUR TEMP. CHANGE +XX
ALL TIME HIGH WIND XX MPH... RECORDED MM/DD/YY
7 DAY AVERAGE WIND XX MPH
TODAY'S AVERAGE WIND XX MPH
NEW LOW TEMP. RECORD XX
NEW HIGH TEMP. RECORD XX
NEW WIND RECORD TODAY XX
5-IN-1 SENSOR BATTERIES LOW
5-IN-1 SENSOR SIGNAL LOST... CHECK BATTERIES AND PLACEMENT
CAUTION – HEAT INDEX IS XXX
CAUTION – WIND CHILL IS XXX
WARMEST DAY THIS WEEK
COLDEST DAY THIS WEEK
TODAY'S RAINFALL - XX

Troubleshooting

Problem	Possible Solution
No reception  no bars	• Relocate the display and/or the 5-in-1 sensor. The units must be within 330 ft (100 m) of each other. • Make sure both units are placed at least 3 feet (.9 m) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc). • Use standard alkaline batteries (or lithium batteries in sensor when temperature is below -20°C/-4°F). Do not use heavy duty or rechargeable batteries. **NOTE:** It may take a few minutes for display and sensor to synchronize after batteries are replaced. • Synchronize the units: 1. Bring both the sensor and display indoors and remove power adapter/batteries from each. 2. Reinstall batteries in outdoor sensor. 3. Reinstall power adapter in display. 4. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.
Temperature is showing dashes	When the outdoor temperature is showing dashes, it may be an indication of wireless interference between the sensor and display. • Re-add sensor to display by accessing the "Sensors" sub-menu (see page 10).
Inaccurate forecast	• Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. • Allow product to run continuously for 33 days. Powering down or resetting the display will restart Learning Mode. After 14 days, forecast should be fairly accurate, however Learning Mode calibrates for a total of 33 days.
Inaccurate wind readings	• What is wind reading being compared to? Pro weather stations are typically mounted at 30 ft (9 m) high or more. Make sure to compare data using a sensor positioned at the same mounting height. • Check location of the sensor. Ensure it's mounted a minimum of 5 ft (1.5 m) in the air with no obstructions around it (within several feet). • Ensure wind cups are spinning freely. If they hesitate or stop try lubricating with graphite powder or spray lubricant.

Problem	Possible Solution
Inaccurate temperature or humidity	• Make sure both the display and 5-in-1 sensor are placed away from any heat sources or vents (see page 8). • Make sure both units are positioned away from moisture sources (see page 8). • Make sure 5-in-1 sensor is mounted at least 1.5 m (5 ft) off of the ground. • Calibrate indoor and outdoor temperature and humidity (see "Calibrate" on page 10).
Display screen not working	• Check that the power adapter is plugged into the display and an electrical outlet.

If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or call (877) 221-1252 for assistance.

Care & Maintenance

Display Care

Clean with a soft, damp cloth. Do not use caustic cleaners or abrasives. Keep away from dust, dirt and moisture. Clean ventilation ports regularly with a gentle puff of air.

Specifications

DISPLAY'S BUILT-IN TEMPERATURE SENSOR RANGE	32°F to 122°F; 0°C to 50°C
DISPLAY'S BUILT-IN HUMIDITY SENSOR RANGE	1% to 99%
OPERATING FREQUENCY	433 MHz
POWER	5V power adapter
DATA REPORTING	Display: Indoor temperature & humidity: 60 second updates

FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:
1- This device may NOT cause harmful interference, and
2- This device must accept any interference received, including interference that may cause undesired operation.
WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.
This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

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:

(877) 221-1252

Visit us at www.**AcuRite**.com

- Installation Videos
- Instruction Manuals
- Replacement Parts
- Register your Product
- Support User Forum
- Submit Feedback & Ideas

IMPORTANT PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

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www.**AcuRite**.com

Limited 1-Year Warranty

AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products, AcuRite provides the benefits and services set forth herein. For purchases of Chaney products, Chaney provides the benefits and services set forth herein.

We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by us, and at our sole option, be repaired or replaced by us. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges. This warranty will not be breached, and we will give no credit for products which have received normal wear and tear not affecting the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by others than our authorized representatives.

Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price.

THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to our products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

In no case shall our liability for any claim relating to our products, your purchase or your use thereof, exceed the original purchase price paid for the product.

Applicability of Policy

This Return, Refund, and Warranty Policy applies only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the policies applicable to the country in which you made your purchase.

Additionally, this Policy applies only to the original purchaser of our products. We cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

This Return, Refund, and Warranty Policy is governed by the laws of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the federal or State courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.

ACU RITE®



Weather Stations



Temperature & Humidity



Weather Alert Radio



Kitchen Thermometers & Timers



Clocks

It's more than accurate, it's ACU RITE®

AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence™.

www.**AcuRite**.com

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ACU▸RITE®

Instruction Manual

5-in-1 PRO Weather Sensor

model 06014RM



Package Contents

1. 5-in-1 PRO Weather Sensor
2. Mounting Hardware
3. Sensor Mounting Bracket
4. Instruction Manual

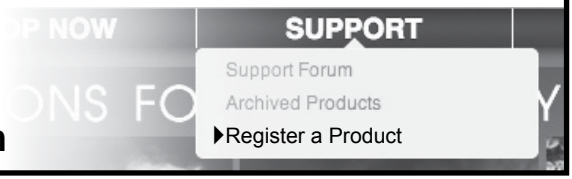
IMPORTANT

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PRODUCT REGISTRATION

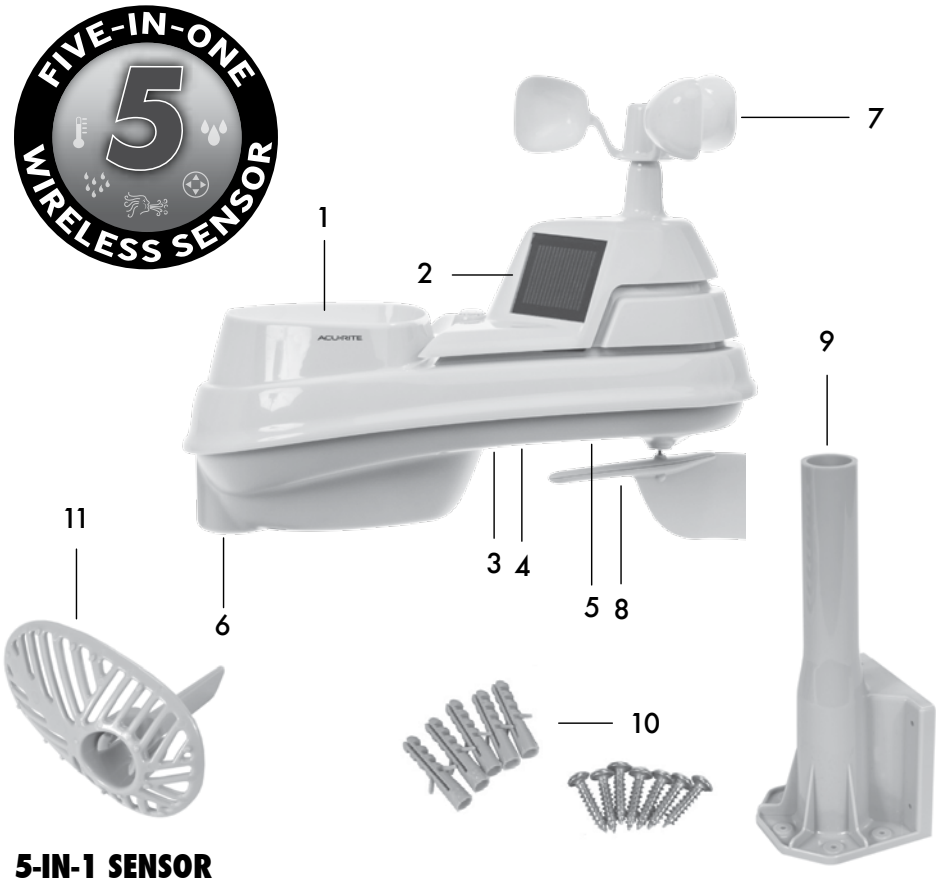
Register online to receive 1 year warranty protection

www.**AcuRite**.com



Questions? Contact Customer Support at (844) 228-5465 or visit www.**AcuRite**.com.

Features & Benefits



5-IN-1 SENSOR

1. **Rainfall Collector Funnel**
2. **Solar Cell Panels**
   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 anchors & 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.

5-in-1 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.

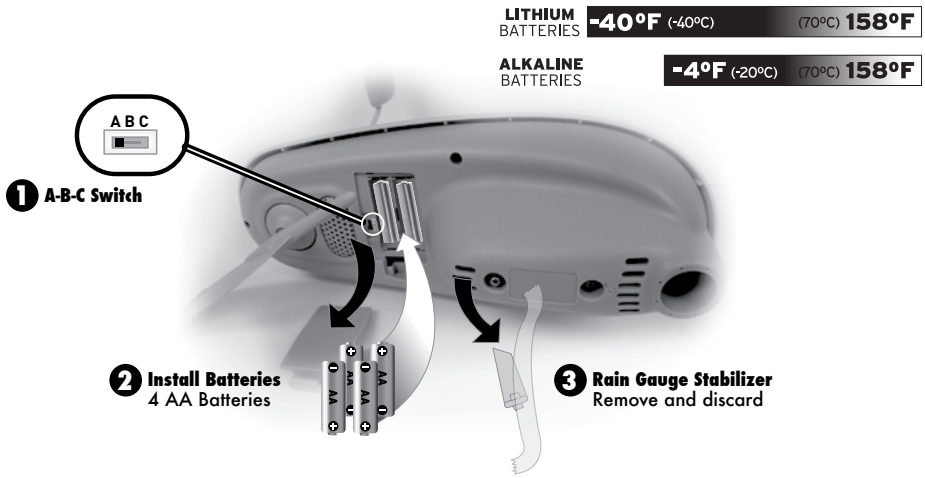
The 5-in-1 sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the 5-in-1 sensor for temperatures below -4°F / -20°C.

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 which is not to 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.



5-in-1 Sensor Placement

The 5-in-1 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.

Learn more at: **www.AcuRite.com/5in1**

View Video

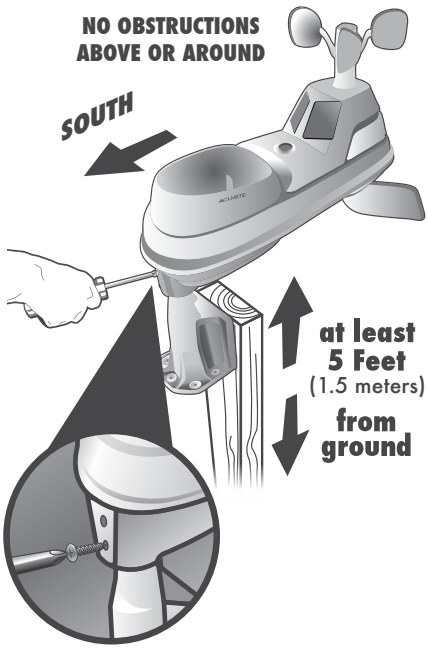
5-in-1 Sensor Installation Guidelines

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.



5-in-1 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 5-in-1 sensor is now ready to use.

Basic Setup is Complete

The 5-in-1 sensor will now synchronize with the display. It may take a few minutes for synchronization to complete.

Calibrate the Rain Gauge

The rain gauge on the 5-in-1 sensor can be calibrated to improve accuracy.
Items Needed: 5-in-1 sensor, companion unit, plastic cup, pin, screw driver

1. First, ensure 5-in-1 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 5-in-1 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 5-in-1 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.

Watch the video at www.AcuRite.com/5n1

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:


(844) 228-5465

info@chaney-inst.com

24/7 support at www.**AcuRite**.com

- ▶ Installation Videos
- ▶ Instruction Manuals
- ▶ Replacement Parts
- ▶ Register your Product
- ▶ Support User Forum
- ▶ Submit Feedback & Ideas

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 86.03 knots
WIND DIRECTION INDICATORS	16 points
RAINFALL	Measured in inches (in) or millimeters (mm)*
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: 30 second updates Outdoor temperature & humidity: 36 second updates

* Refer to the manual for the companion unit (display, software, etc.) to determine the types of measurements included.

FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:
1- This device may NOT cause harmful interference, and
2- This device must accept any interference received, including interference that may cause undesired operation.
WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.
This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Limited One Year Warranty

At AcuRite, we proudly uphold our commitment to quality technology. Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase.

We recommend that you visit us at www.AcuRite.com for the fastest way to register your product. However, product registration does not eliminate the need to retain your original proof of purchase in order to obtain warranty benefits.

Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase. Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by Chaney, and at its sole option, be repaired or replaced by Chaney. Transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This warranty will not be breached, and Chaney will give no credit for products it manufactures which have received normal wear and tear, been damaged (including by acts of nature), tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

The above-described warranty is expressly in lieu of all other warranties, express or implied, and all other warranties are hereby expressly disclaimed, including without limitation the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. Chaney expressly disclaims all liability for special, consequential or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Chaney further disclaims all liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of Chaney's products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to assume for Chaney any other liability in connection with the sale of its products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this paragraph, and the preceding paragraph, unless done in writing and signed by a duly authorized agent of Chaney. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For in-warranty claims: Chaney Instrument Co.
965 Wells St., Lake Geneva, WI 53147

ACU▸RITE®



Weather Stations



Temperature & Humidity



Weather Alert Radio



Kitchen Thermometers & Timers



Clocks

It's More than Accurate, it's ACU▸RITE®

AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence™.

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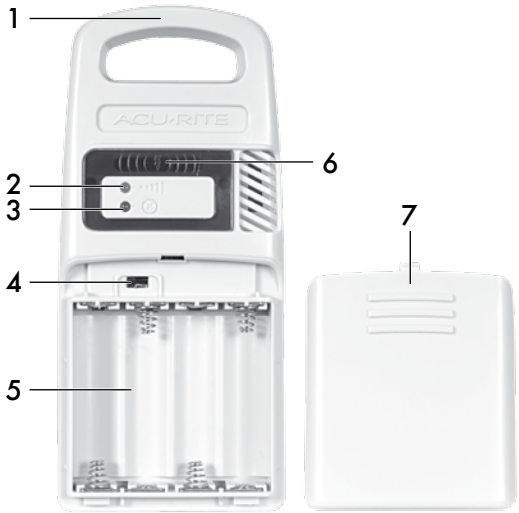
ACU-RITE

Instruction Manual

Lightning Detector Sensor

model 06045

Features & Benefits



1. **Integrated Hanger**
   For easy placement.
2. **Wireless Signal Indicator**
   Flashes when data is being sent to the companion unit.
3. **Interference Indicator**
   Flashes when interference is detected (see page 4).
4. **A-B-C Switch**
   Slide to select A-B-C channel.
5. **Battery Compartment**
6. **Lightning Strike Indicator**
   Indicates a lightning strike has occurred within 25 miles (40 km).
7. **Battery Compartment Cover**

Note: Under no circumstances shall the Lightning Detector, Chaney Instrument Co. or the Primex Family of Companies be held responsible for any damages whatsoever that may result from the use of or inability to use this product, including without limitation any indirect, incidental, special, exemplary or consequential damages, which are expressly disclaimed. This disclaimer of liability applies to any damages or injury caused by any failure of performance, error, omission, inaccuracy, interruption, deletion, defect, delay in operation or transmission software virus, communication failure, theft or destruction or unauthorized access to, alteration of, or use of the product, whether for breach of contract, tortuous behavior (including, without limitation, strict liability), negligence, or under any other cause of action, to the fullest extent permissible by law. This does not affect any statutory rights which may not be disclaimed. The contents of this product, including all lightning and weather data are provided “as is” and without warranty or condition of any kind, express or implied, including, without limitation, any warranty of merchantability or fitness for a particular purpose. Chaney Instrument Co. & the Primex Family of Companies do not warrant that this product or the data that it provides will be free of errors, interruptions, viruses or other harmful components. Chaney Instrument Co. & the Primex Family of Companies do not warrant the accuracy or reliability of any lightning strike alerts, weather data or other information provided by the product. Chaney Instrument Co. & the Primex Family of Companies reserve the right to alter the product or withdraw it from the market at its sole discretion.

Sensor Setup

1 Set the A-B-C Switch

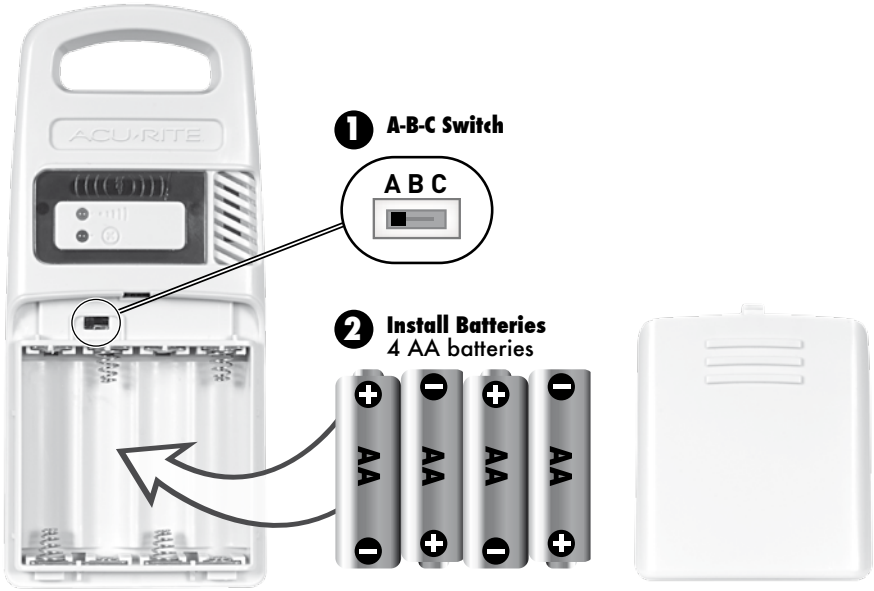
The A-B-C switch is located inside the battery compartment. Slide to set the channel to A, B or C.
NOTE: If being used with a companion product that has an A-B-C channel, you must select the same letter choice for both the sensor and the product it is being paired with in order for the units to synchronize.

2 Install or Replace Batteries

AcuRite recommends high quality alkaline or lithium batteries in the wireless sensor for the best product performance. Heavy duty or rechargeable batteries are not recommended.

The sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the sensor for temperatures below -4°F / -20°C.

1. Slide off the battery compartment cover.
2. Insert 4 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
3. Replace the battery cover.





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 which is not to 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.



Sensor Placement

Sensor must be placed outside to observe outdoor conditions. Sensor is water resistant and is designed for general outdoor use, however, to extend its life place the sensor in an area protected from direct weather elements.

Hang the sensor using the integrated hanger, or by using string (not included) to hang it from a suitable location, like a well covered tree branch. The best location is 4 to 8 feet above the ground with permanent shade and plenty of fresh air to circulate around the sensor.

Important Placement Guidelines

- Sensor must be within 330 feet (100 meters) of a companion unit (sold separately).

MAXIMIZE WIRELESS RANGE

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

PREVENT WIRELESS INTERFERENCE

Place unit at least 3 feet (90 cm) away from electronic devices (TV, computer, microwave, radio, etc.).

LOCATE AWAY FROM HEAT SOURCES

To ensure accurate temperature measurement, place sensor out of direct sunlight and away from any heat sources.

LOCATE AWAY FROM HUMIDITY SOURCES

To ensure accurate humidity measurement, locate sensor away from humidity sources. Avoid installing the sensor near indoor pools, spas, or other bodies of water. Water sources may impact humidity accuracy.

Lightning Detection

The sensor detects cloud-to-cloud, cloud-to-ground and intra-cloud lightning. When lightning is detected, the sensor will beep and the strike indicator will flash for each of the first 10 strikes. After 10 strikes, the sensor will enter silent mode but will continue to flash. The sensor will stay in silent mode for 2 hours after the last lightning detection.

False Detection

This sensor features advanced technology to distinguish between lightning strikes and interference, however in rare cases the sensor may "false detect" lightning activity due to interference. In these situations, verify there is no lightning in the area and then relocate the sensor. If the false detections persist, identify and relocate the source of interference or relocate the sensor.

Interference

The sensor features enhanced interference rejection capabilities to prevent false lightning detection. When the detector cannot detect lightning due to interference from nearby equipment, the sensor's interference indicator will flash.

- Electric motors (windshield wiper motor or fan motors in cars, hard drive and optical drive motors on your PC and AV equipment, well pumps, sump pumps)
- CRT monitors (PC monitors, TV's)
- Fluorescent light fixtures (turned off or on)
- Microwave ovens (while in use)
- PC's and mobile phones

WARNING: Take shelter IMMEDIATELY when lightning is present, whether or not it has been detected by the Lightning Detector. If you are concerned about lightning strikes, follow all safety precautions to keep yourself and others safe. DO NOT rely on this Lightning Detector as your only source for warnings about potentially deadly lightning strikes or other severe weather conditions.

Troubleshooting

Problem	Possible Solution
Interference Indicator is flashing	• Relocate the sensor. • Make sure the sensor is placed at least 3 feet (.9 m) away from electronics that may cause interference (see Interference section above).

If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or call (877) 221-1252 for assistance.

Care & Maintenance

Clean with a soft, damp cloth. Do not use caustic cleaners or abrasives.

Specifications

LIGHTNING DETECTION RANGE	1 - 25 miles / 1.6 - 40km
TEMPERATURE RANGE	-40°F to 158°F; -40°C to 70°C
HUMIDITY RANGE	1% to 99% RH (relative humidity)
POWER	4 x AA alkaline batteries or lithium batteries
WIRELESS RANGE	330 ft/100m depending on home construction materials
OPERATING FREQUENCY	433 MHz

FCC Information

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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:

(877) 221-1252

Visit us at www.**AcuRite**.com

- Installation Videos
- Instruction Manuals
- Replacement Parts
- Register your Product
- Support User Forum
- Submit Feedback & Ideas

IMPORTANT PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

Register online to receive 1 year warranty protection

www.**AcuRite**.com

Limited 1 Year Warranty

AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products, AcuRite provides the benefits and services set forth herein. For purchases of Chaney products, Chaney provides the benefits and services set forth herein.

We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by us, and at our sole option, be repaired or replaced by us. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges. This warranty will not be breached, and we will give no credit for products which have received normal wear and tear not affecting the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by others than our authorized representatives.

Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price

THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

In no case shall our liability for any claim relating to our products, your purchase or your use thereof, exceed the original purchase price paid for the product.

Applicability of Policy

This Return, Refund, and Warranty Policy applies only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the policies applicable to the country in which you made your purchase.

Additionally, this Policy applies only to the original purchaser of our products. We do cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

This Return, Refund, and Warranty Policy is governed by the laws of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the federal or State courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.

ACU-RITE®



Weather Stations



Temperature & Humidity



Weather Alert Radio



Kitchen Thermometers & Timers



Clocks

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