



ACURITE Display for 5-in-1 Weather Sensor Instruction Manual

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Instruction Manual

ACURITE



ACURITE Display for 5-in-1 Weather Sensor

Package Contents

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

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

IMPORTANT

PRODUCT MUST BE REGISTERED IMPORTANT TO RECEIVE WARRANTY SERVICE

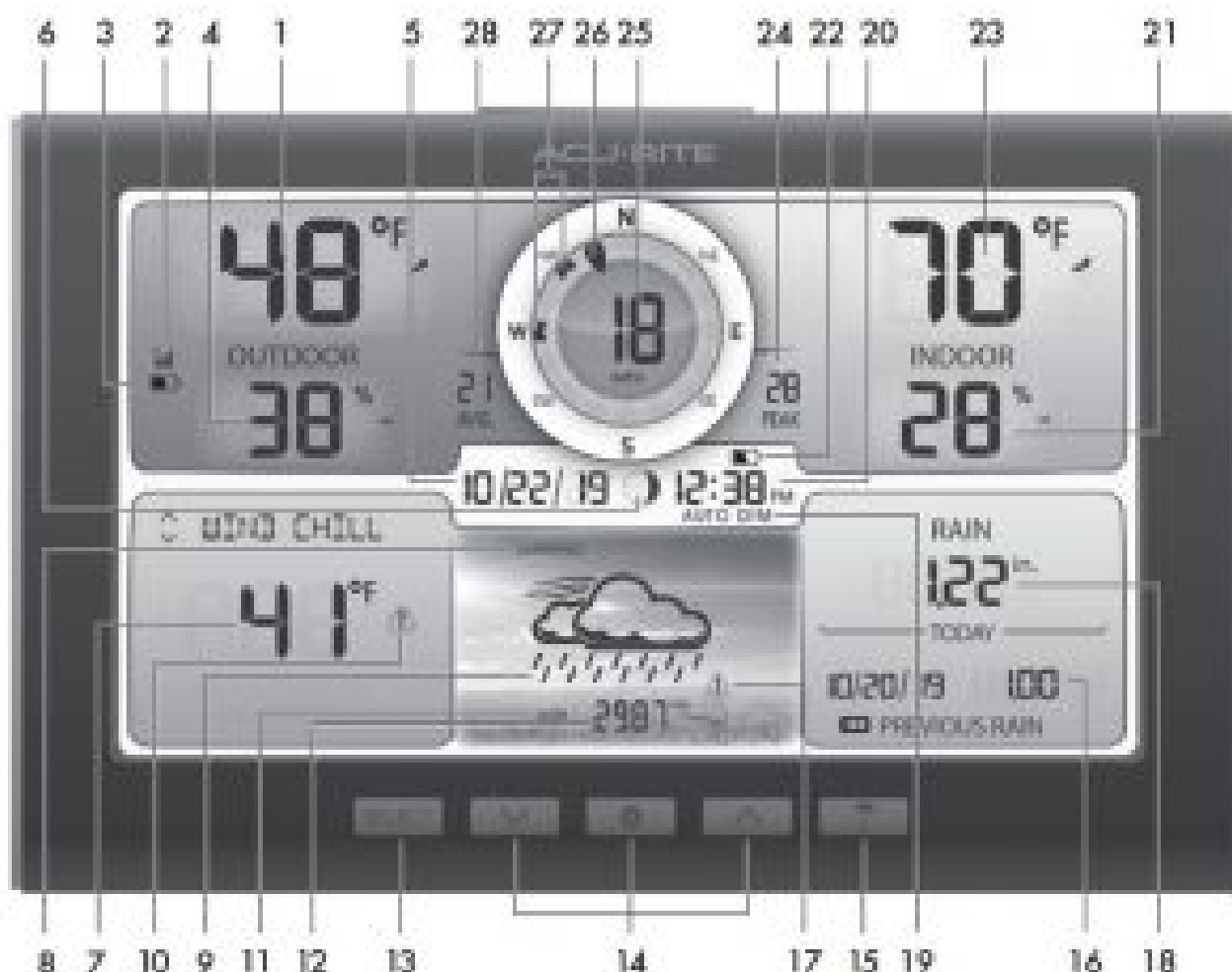
PRODUCT REGISTRATION Register online to receive 1 year warranty protection www.AcuRite.com

Questions? Contact Customer Support at www.AcuRite.com/support or email support@chaney-inst.com

SAVE THIS MANUAL FOR FUTURE REFERENCE.

Features & Benefits

Display



- 1. Current Outdoor Temperature**
Arrow icon indicates direction temperature is trending.
- 2. Outdoor Sensor Signal Strength**
- 3. Sensor Low Battery Indicator**
- 4. Current Outdoor Humidity**
Arrow icon indicates direction humidity is trending.
- 5. Date**
- 6. Moon Phase**
- 7. WEATHER SELECT**
Displays heat index, dew point, wind chill, feels like, and rainfall rate.
- 8. Learning Mode Icon**
Disappears after weather forecast self-calibration is complete.
- 9. 12 to 24 Hour Weather Forecast**
Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.
- 10. Wind Chill**
- 11. Weather Icon**
- 12. Rainfall Total**
- 13. Rainfall History**
- 14. Storm Alert Indicator**
- 15. ↑ Button**
Press to change the RAINFALL data being displayed (Week, Year, All-Time).
- 16. Rainfall History**
- 17. Storm Alert Indicator**
Activates when barometric pressure drops.
- 18. Current Rainfall Total**
Rainfall recorded since 12:00am.
- 19. AUTO DIM icon**
Indicates display is in auto-dimming brightness mode (see page 6).
- 20. Clock**
- 21. Current Indoor Humidity**
Arrow icon indicates direction humidity is trending.
- 22. Display Low Battery Indicator**
- 23. Current Indoor Temperature**
Arrow icon indicates direction temperature is trending.
- 24. Peak Wind Speed**
Highest speed from past 60 minutes.

10. Rainfall Alert Indicator

Indicates rainfall of more than 1" (25 mm) of rain in 2 hours or less.

11. Auto or Manual Pressure Mode

Indicates pressure mode preference.

AUTO Pressure Mode

Pressure will self-calibrate over a 14 day Learning Mode.

MANUAL Pressure Mode

Indicates raw pressure value, no adjustment for sea level (can be calibrated).

12. Current Barometric Pressure

Arrow icon indicates direction pressure is trending.

13. SELECT Button

Press to change the Weather Select category data being display.

14. V, O, ^ Buttons

For setup preferences and access to historical records.

25. Current Wind Speed

26. Current Wind Direction


27. Previous 2 Wind Directions

28. Average Wind Speed

Average of all speeds over the past 2 minutes.



DISPLAY BACK

- | | |
|--|--|
| <p>1.  Backlight Button
For momentary backlight and dimmer settings.</p> <p>2. Integrated Hang Holes
For easy wall mounting.</p> <p>3. Backup Battery Compartment</p> <p>4. A-B-C Switch
ID code that must match sensor's A-B-C switch to ensure units synchronize.</p> | <p>5. Plug-in for Power Adapter</p> <p>6. Battery Compartment Cover</p> <p>7. Power Adapter</p> <p>8. RESET Button
Press and release to clear historical record. Press and hold for 10 seconds for full reset to factory defaults.</p> |
|--|--|

SETUP

Display 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 choices for both the sensor and the display in order for the units to synchronize.

2. Insert 3 x AAA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.

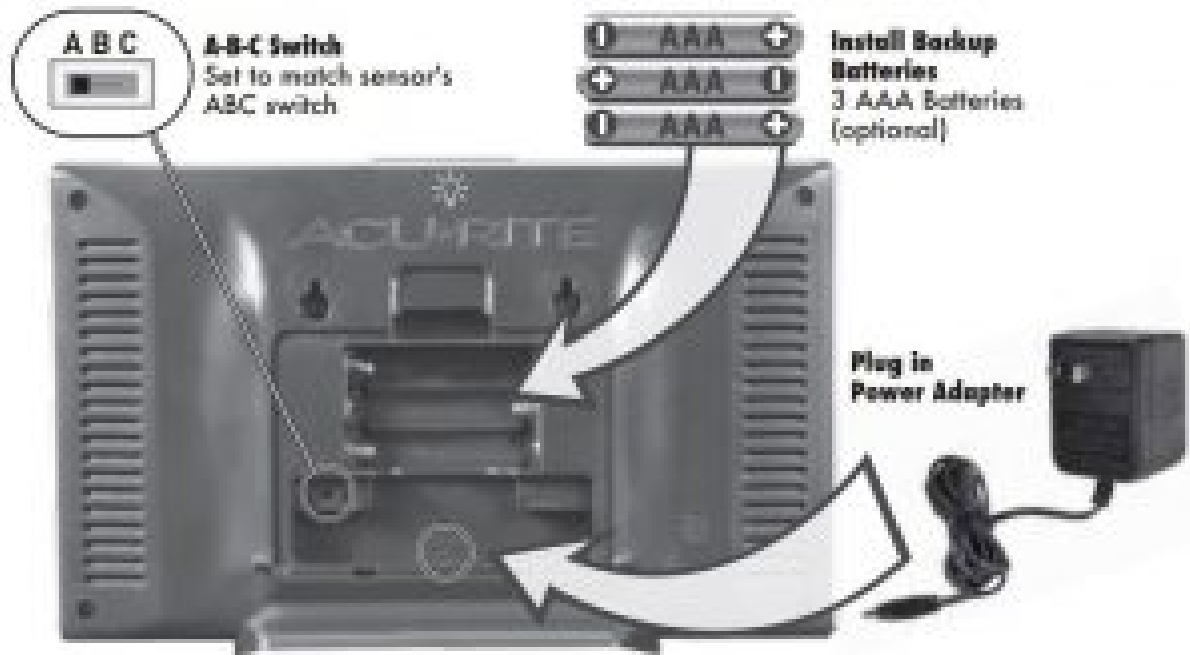
3. Replace the battery cover.

2 Install or Replace Backup Batteries (optional)

1. Remove the battery compartment cover.

3 Plug in Power Adapter

For the best performance, plug in the power adapter as the main power source for this product.



IMPORTANT: Batteries are a backup power source to preserve records in the event of a power outage. Power adapter is required as the primary power source to enjoy the full functionality of this product.

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 recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

Set the Time, Date & Units

Press the “⚙️” button, located on the front of the display, to enter SET MODE. Once in set mode, the preference you are currently setting will blink on the display.

To adjust the currently selected (flashing) item, press and release the “⬆️” or “⬆️” buttons (press and HOLD to fast adjust).

To save your adjustments, press and release the “⚙️” button to adjust the next preference. The preference set order is as follows:

AUTO DST (ON or OFF)*

- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- TEMPERATURE UNITS (°F or °C)
- WIND SPEED UNITS (mph, km/h, knots)
- RAINFALL UNITS (inches or mm)
- PRESSURE UNITS (inHg or hPa)

You will automatically exit SET MODE if no buttons are pressed for 20 seconds. Enter SET MODE at any time by pressing and holding the “⚙️” button.

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

Display Back light Settings

This weather station’s color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (15%) brightness. When display is powered with the power adapter, back light remains on at 100% brightness. Press the “💡” button once to dim to 60% brightness; press again to dim to 15%, press a third time to enter AUTO-DIM mode. “AUTO DIM” will appear below the clock.

NOTE: Pressing and holding the “💡” button for 5 seconds will disable the back light. Once any button is pressed, the back light will return to your selected setting.

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

Placement for Maximum Accuracy

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



Display Placement

Place the display in a dry area free of dirt and dust. To ensure accurate temperature measurement, place out of direct sunlight and away from heat sources or vents. Display stands upright for tabletop use or is wall-mountable.

Important Placement Guidelines

Display and sensor must be within 330 feet (100 m) of each other.

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 (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).

OPERATION

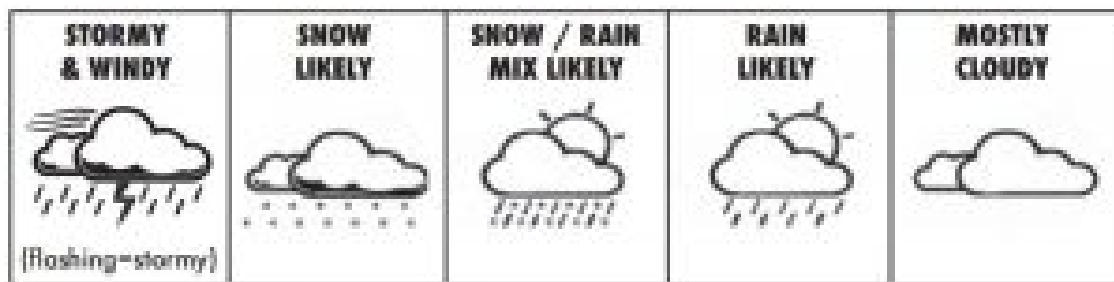
Using the Professional Weather Center

Learning Mode

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

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 the sensor in your backyard. It generates a forecast with pinpoint accuracy – personalized for your exact location.



View the complete list of icons at www.AcuRite.com/acurite-icons

Barometric Pressure


Subtle variations in barometric pressure greatly affect the weather. This weather station displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).


Rainfall Tracking

This weather station features enhanced tracking of historical rainfall data. Rain accumulation data is recorded for today, over all-time, by year and by week.

Press the “  ” button to review rainfall records. The “  ” is shown on the display while historical data is being viewed.

Troubleshooting

Problem	Possible Solution
No outdoor sensor reception 	<ul style="list-style-type: none">• Relocate the display and/or the 5-in-1 sensor. The units <i>must</i> be within 330 ft (100 m) of each other.• Make sure both units are placed at least 3 feet (90 cm) 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 -4°F/-20°C). 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:<ol style="list-style-type: none">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/batteries in display.4. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.

Problem	Possible Solution
<p>No outdoor sensor reception</p>  no bars	<ul style="list-style-type: none"> • 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 (90 cm) 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 -4°F/-20°C). 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: <ol style="list-style-type: none"> 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/batteries in display. 4. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.

Problem	Possible Solution
<p>Inaccurate temperature or humidity</p>	<ul style="list-style-type: none"> • Make sure both the display and 5-in-1 sensor are placed away from any heat sources or vents (see page 7). • Make sure both units are positioned away from moisture sources (see page 7). • Make sure 5-in-1 sensor is mounted at least 5 ft off of the ground. • Calibrate indoor and outdoor temperature and humidity (see page 11).
<p>No rainfall</p>	<ul style="list-style-type: none"> • Check to ensure the rain gauge stabilizer (plastic tab) has been removed from the bottom of the sensor. • Clear debris, such as leaves, out of the rain collector funnel and debris screen.

<p>Inaccurate wind readings</p>	<ul style="list-style-type: none"> • What is wind reading being compared to? Pro weather stations are typically mounted at 30 ft 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 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.
<p>Display screen not working</p>	<ul style="list-style-type: none"> • Check that the power adapter is plugged into the display and an electrical outlet. • Check that the batteries are installed correctly. Batteries may need to be replaced. • Reset the display by pressing and holding the RESET button, located in the battery compartment of the display. Date and time will need to be entered after a reset.

If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or email support@chaney-inst.com 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.

Calibration

The indoor / outdoor temperature and humidity readings, and barometric pressure can be calibrated on the display to improve accuracy. Calibration can improve accuracy when sensor placement or environmental factors impact the data accuracy.

1. To access calibration mode, pressing "**^**", "**⊗**" and "**v**" buttons simultaneously for at least 5 seconds.
2. To adjust the currently selected (flashing) item, press and release the "**^**" or "**v**" buttons to calibrate the data value higher or lower from the actual reading.
3. To save your adjustments, press and release the "**⊗**" button to adjust the next preference. The "**☑**" icon will remain illuminated next to calibrated values.

The preference set order is as follows:

OUTDOOR TEMPERATURE

OUTDOOR HUMIDITY

INDOOR TEMPERATURE

INDOOR HUMIDITY

BAROMETRIC PRESSURE (must be set to MANUAL mode to calibrate)*

*To change from AUTO to MANUAL pressure mode and vice versa, press AND HOLD the "**⊗**" button for at least 10 seconds. The display indicates the current pressure mode selected, "AUTO" or "MANUAL".

After 20 seconds of inactivity, the display will save the adjustments and exit calibration mode.

Note: Calibrations will be erased if the display is reset or if batteries are removed and the power adapter is unplugged.

Specifications

DISPLAY'S BUILT-IN TEMPERATURE RANGE	32°F to 122°F; 0°C to 50°C
DISPLAY'S BUILT-IN HUMIDITY RANGE	1% to 99%
WIND SPEED	0 to 99 mph; 0 to 159 kph
WIND DIRECTION INDICATORS	16 points
RAINFALL	0.01 inches (0.25 mm) and up
WIRELESS RANGE	330ft / 100m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	5v power adapter 3 x AAA alkaline batteries (optional)
DATA REPORTING	Wind Speed: 18 second updates; Direction: 36 seconds Outdoor temperature & humidity: 36 second updates 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:

support@chaney-inst.com

Visit us at www.AcuRite.com

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

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 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.

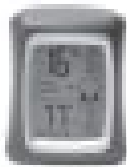
Governing Law

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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Printed in China

Documents / Resources

	<p>ACURITE Display for 5-in-1 Weather Sensor [pdf] Instruction Manual Display for 5-in-1 Weather Sensor, 06095</p>
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References

- ▶ [AcuRite Weather Monitoring | #1 Weather Station Brand in North America](#)
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