

High Resolution Weather Station Display

model 06027



This product requires at least one AcuRite Monitor or Sensor (sold separately) to be operational.

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

SAVE THIS MANUAL FOR FUTURE REFERENCE.



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

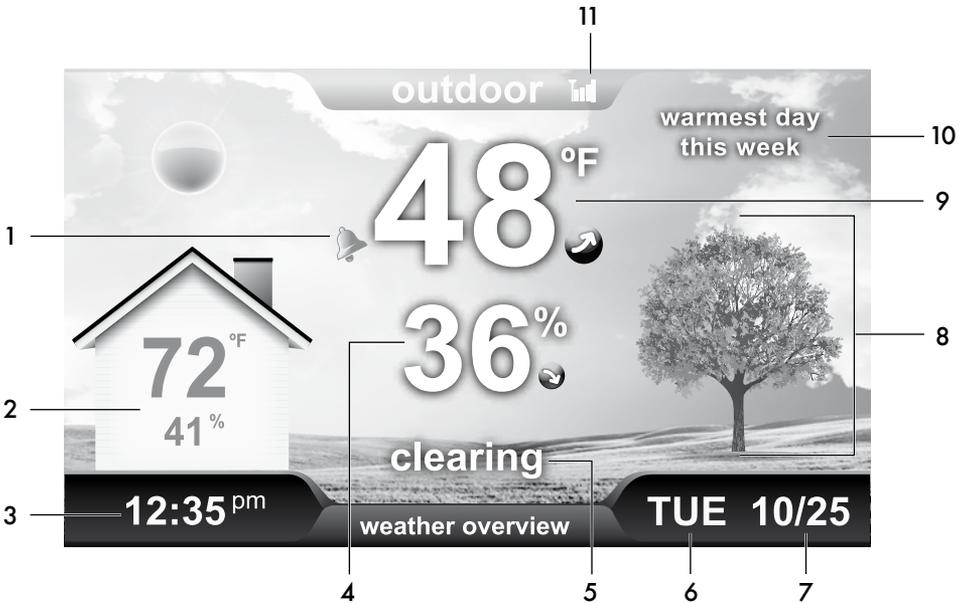
PRODUCT REGISTRATION

Register online to receive 1 year warranty protection

www.AcuRite.com

Features & Benefits

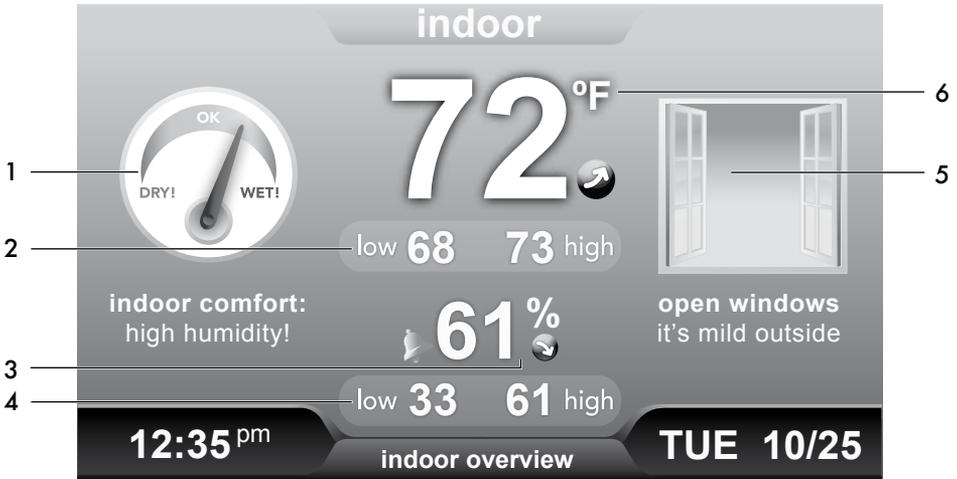
Weather Overview Dashboard



- 1. (🔔) Alarm ON Indicator**
Indicates alarm is activated to emit an audible alert when conditions exceed your presets (see page 10).
- 2. Indoor Conditions or How-to-Dress Character**
Select viewing preference during setup (see page 12).
- 3. Clock**
- 4. Current Outdoor Humidity**
Arrow icon indicates direction humidity is trending.
- 5. Weather Forecast and Indoor Humidity Messages**
Text readout of weather forecast. Displays humidity alerts when indoor conditions are too high or low (see page 13).
- 6. Day Of The Week**
- 7. Date**
- 8. Weather Forecast and Current Conditions**
Self-Calibrating Forecasting pulls data from your sensor to generate your personal forecast. Illustrates current conditions and automatically adjusts based on time of day and season.
- 9. Current Indoor Temperature**
Arrow indicates direction temperature is trending.
- 10. Messages**
Weather information and alert messages (see page 13).
- 11. Outdoor Sensor Signal Strength**

Features & Benefits

Indoor Overview Dashboard



1. Humidity Level Indicator

Indicates a high, low or ideal humidity comfort level (see page 14).

2. Daily High & Low Temperature Records

Lowest and highest temperature recorded since midnight.

3. Current Indoor Humidity

Arrow indicates direction humidity is trending.

4. Daily High & Low Humidity Records

Lowest and highest humidity recorded since midnight.

5. Recommendations

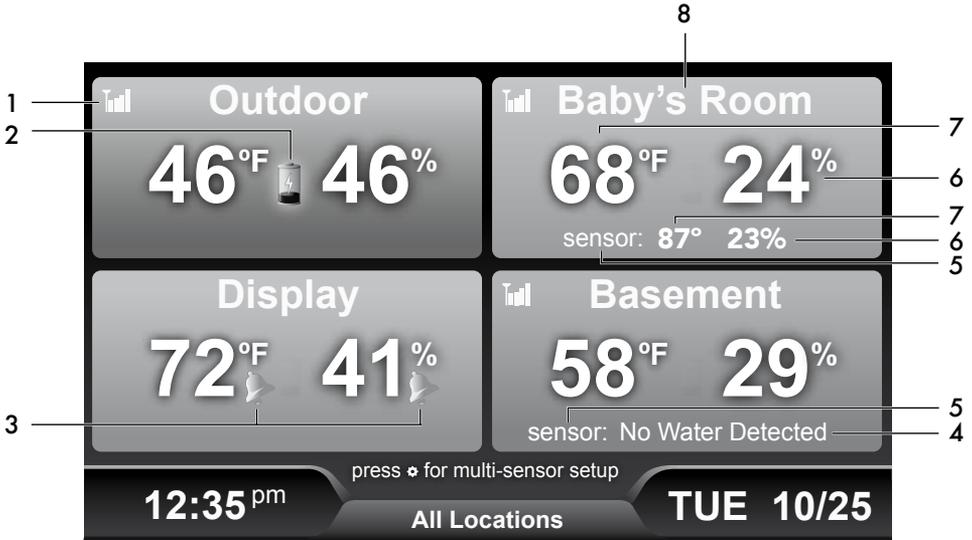
Indoor comfort recommendations based on outdoor conditions (see page 14).

6. Current Indoor Temperature

Arrow indicates direction temperature is trending.

Features & Benefits

All Locations Dashboard



1. Wireless Signal Strength

Signal strength detected for the external Monitor or Sensor (sold separately) that is reporting data for the location.

2. Low Battery Indicator

For the product that is reporting data for the corresponding location.

3. Alarm ON Indicator

Indicates alarm is activated to emit an audible alert when conditions exceed your presets (see page 10).

4. Water Detector Reading

Indicates Water Detector (sold separately) data.

5. Wired Sensor Indicator

Indicates a Wired Sensor (sold separately) is reporting data to the display.

6. Humidity Reading

Humidity reading reported by the product that is installed in the location indicated.

7. Temperature Reading

Temperature reading reported by the product that is installed in the location indicated.

8. Location Name

Label your data readings by location name (see page 11).

Features & Benefits

Display



DISPLAY BACK

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

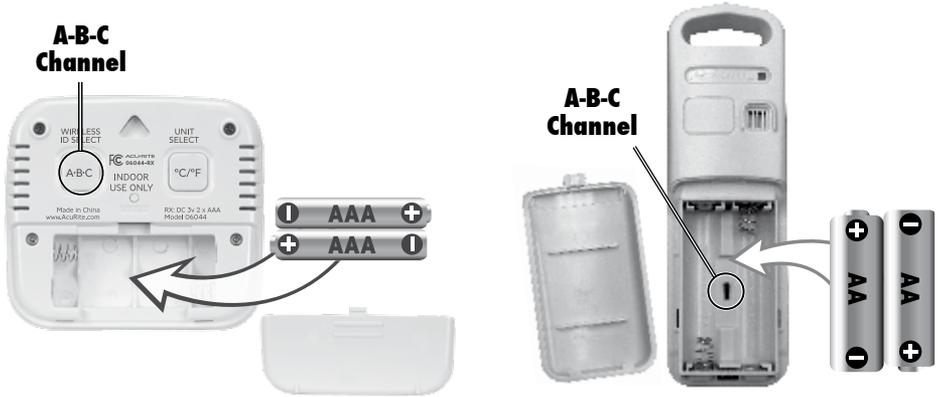
DISPLAY FRONT

- 4. Gear Button**
For menu access and setup preferences.
- 5. Down Arrow Button**
For setup preferences and cycling through messages on the Weather Overview dashboard.
- 6. Square Button**
Press to view a different dashboard.
- 7. Up Arrow Button**
For setup preferences and cycling through messages on the Weather Overview dashboard.
- 8. Checkmark Button**
For setup preferences.

Display Setup

1 Install External Monitor or Sensor Batteries

BEFORE powering on the display, install batteries for all external Monitors and/or Sensors (sold separately) that you would like to synchronize with the display.



NOTE: If pairing more than one wireless sensor (model 06002 or 06044) with the display, the A-B-C channel must differ between each sensor. Verify that each sensor has a different channel selected by following the instructions in the corresponding sensor manual.

2 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 “v” buttons (press and HOLD to fast adjust).

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, AKST)

AUTO DST (Daylight Saving Time YES or NO)*

CLOCK HOUR

CLOCK MINUTE

MONTH

DATE

YEAR

PRESSURE UNITS (inHg or hPa)

TEMPERATURE UNITS (°F or °C)

AUTO DIM (YES or NO)**

AUTO CYCLE (OFF, 10 sec., 30 sec., 60 sec., 2 min.)

INDOOR READINGS or HOW-TO-DRESS CHARACTER***

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 11, under “Display”.

***For more information see page 12, under “How-to-Dress Character”.

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 products are sensitive to surrounding environmental conditions. Proper placement is critical for accuracy and performance.



Display Placement

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

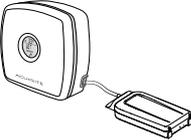
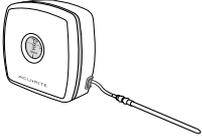
Important Placement Guidelines

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

Expand the System

The display features built-in sensors for measuring temperature and humidity at its location. The display can be expanded to track additional conditions by using compatible Monitors and Sensors (optional; sold separately). Add up to 3 Monitors and Sensors to observe conditions in additional locations within 330 ft (100 m).

Compatible Monitors and Sensors are available at: www.AcuRite.com

Compatible Monitors		Perfect for:
<p>Temperature & Humidity Monitor Model 00275</p> 	<ul style="list-style-type: none"> • Outdoor applications 	
<p>Room Monitor Model 00276</p> 	<ul style="list-style-type: none"> • Indoor applications 	
<p>Temperature & Humidity Sensor Model 06002</p> 	<ul style="list-style-type: none"> • Indoor and outdoor applications 	
<p>Temperature & Humidity Sensor Model 06044</p> 	<ul style="list-style-type: none"> • Indoor applications <p>NOTE: During setup, an image of model 06002 will be shown.</p>	
Monitor + Wired Sensor		Perfect for:
<p>Water Detector Model 06010</p> 	<ul style="list-style-type: none"> • Basement flooding • Roof leaks • Leaky appliances • Sump pump failure • Track high or low water level 	
<p>Liquid & Soil Temperature Sensor Model 06011</p> 	<ul style="list-style-type: none"> • Indoor pool, spa, pond or fountain temperature • Prevent frozen pipes • Seeding, potting and gardening 	
<p>Spot Check Temperature & Humidity Sensor Model 06012</p> 	<ul style="list-style-type: none"> • Monitor conditions in hard to reach places (attic, basement, etc.) • Pet areas • Evaluate heating and cooling efficiency and coverage in your home • Monitor conditions in nursery or child's room 	

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 additional monitors 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 each of the monitor's readings on a graphic chart.

2. Alarms

Access the "Alarms" sub-menu to set and edit alarm values.

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).

When auto dim mode is activated in display setup, the backlight automatically dims the brightness based on the time of day and year.

AUTO DIM MODE: Automatically adjusts display brightness based on time of day & year.	
MARCH 11- NOVEMBER 4	6:00 a.m. - 9:00 p.m. = 100% brightness
	9:01 p.m. - 5:59 a.m.= 30% brightness
NOVEMBER 5 - MARCH 10	7:30 a.m. - 7:00 p.m.= 100% brightness
	7:01 p.m. - 7:29 a.m. = 30% brightness

5. Monitors

Access the "Monitors" sub-menu to add, remove or rename a monitor location. **Note:** The monitor is labeled "OUTDOOR" will supply information for the forecast and the Weather Overview dashboard. Only one monitor can be labeled "OUTDOOR."

Location Names			
AQUARIUM	BEDROOM 3	GUEST ROOM	OTHER
ANIMALS	BEDROOM 4	HOT TUB	OUTDOOR
ATTIC	CELLAR	HUMIDOR	POOL
BABY'S ROOM	COOLER	KITCHEN	PORCH
BASEMENT	DINING RM	LAUNDRY	SPA
BATHROOM	FAMILY RM	LIVING RM	STORAGE
BATHROOM 2	FREEZER	MASTER BR	SUMP PUMP
BATHROOM 3	FRIDGE	MUSIC RM	UPSTAIRS
BEDROOM	GARAGE	NURSERY	UTILITY
BEDROOM 2	GARDEN	OFFICE	WINE

6. Units

Access the "Units" sub-menu to change measurement units for barometric pressure (hPa, inHg) and temperature (°F, °C).

7. Calibrate

Access the "Calibrate" sub-menu to adjust display or monitor/sensor data. First, select a location from the on-screen list. Second, select the reading you wish to calibrate (temperature, humidity, pressure). 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.

Note: To forecast precipitation accurately a weather-resistant Monitor or Sensor (sold separately) must be placed outdoors and its location name must be set to OUTDOOR.

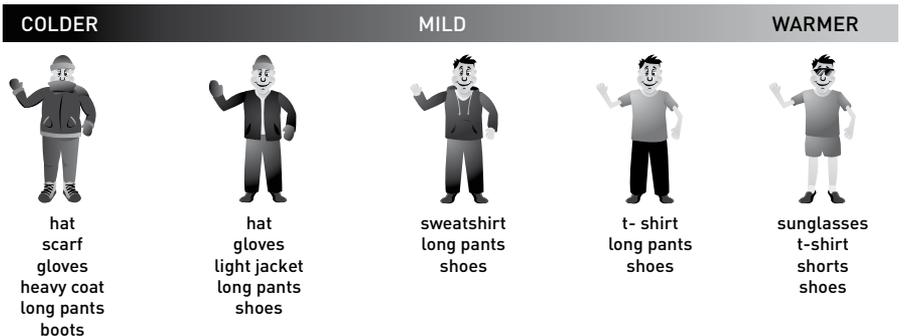
Moon Phase

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



How-to-Dress Character

The How-to-Dress Character includes 22 different weather recommendations based on the weather forecast. If the How-to-Dress Character is the option selected during setup, the character icon will be shown in place of indoor readings on the dashboard.



Messages

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

Default messages are pre-loaded as follows:

BAROMETER Xx.xx AND RISING	30 DAYS HIGH TEMPERATURE RECORDED
BAROMETER Xx.xx AND STEADY	30 DAYS LOW TEMPERATURE RECORDED
BAROMETER Xx.xx AND FALLING	ALL TIME HIGH TEMPERATURE RECORDED
WARMEST DAY THIS WEEK	ALL TIME LOW TEMPERATURE RECORDED
WARMEST DAY THIS MONTH	24 HOUR TEMPERATURE CHANGE
WARMEST DAY THIS YEAR	INDOOR HUMIDITY OK
COLDEST DAY THIS WEEK	INDOOR HUMIDITY HIGH
COLDEST DAY THIS MONTH	INDOOR HUMIDITY LOW
COLDEST DAY THIS YEAR	NEW LOW TEMPERATURE RECORD
HEAT INDEX	NEW HIGH TEMPERATURE RECORD
WIND CHILL	SENSOR BATTERIES LOW
IT FEELS LIKE ??? OUTSIDE	DISPLAY BATTERIES LOW
7 DAYS HIGH TEMPERATURE RECORDED	CAUTION HEAT INDEX IS...
7 DAYS LOW TEMPERATURE RECORDED	CAUTION WIND CHILL IS...

Indoor Humidity Messages

When the indoor humidity (measured by the display’s built-in humidity sensor) is too high (above 60%) or low (below 30%) for more than 24 hours, a recommendation is displayed on the Weather Dashboard (shown below).

Note: Humidifiers and dehumidifiers can be purchased from home centers.

Indoor Humidity is High!
Run a Dehumidifier

Indoor Humidity is Low!
Run a Humidifier

Indoor Overview Dashboard

Humidity Level Indicator

Indoor humidity is measured by the display's built-in humidity sensor. Humidity is shown with a simple Humidity Level Meter and text readout on the Indoor Overview dashboard.



Recommendations

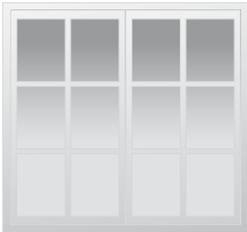


The Indoor Overview dashboard provides you with recommendations based on outdoor conditions.

Open Windows

It's Mild Outside

Recommendation shown if outdoor temperature is between 60°F - 76°F (16°C - 24°C) and outdoor humidity is between 33% - 65%.



Close Windows

It's Too Cold Outside

Recommendation shown if outdoor temperature is less than 60°F (16°C) and outdoor humidity is less than 32%.

It's Too Warm Outside

Recommendation shown if outdoor temperature is higher than 76°F (24°C) and outdoor humidity is less than 55%.

It's Humid Outside

Recommendation shown if outdoor temperature is higher than 80°F (27°C) and outdoor humidity is higher than 75%.

Troubleshooting

Problem	Possible Solution
<p>No reception</p> 	<p>If the wireless signal indicator shows no bars:</p> <ul style="list-style-type: none"> • Relocate the display and/or synced Monitor/Sensor (if applicable). The products must be within 330 ft (100 m) of each other. • Make sure products (display, Monitors, Sensors) 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 Monitors and Sensors when temperature is below -4°F/-20°C). Do not use heavy duty or rechargeable batteries. <p>Note: It may take a few minutes for display and sensor to synchronize after batteries are replaced.</p>
<p>Temperature is showing dashes</p>	<p>Dashes in the temperature reported by a Monitor/Sensor is generally an indication of wireless interference between the sensor and display.</p> <ol style="list-style-type: none"> 1. Remove the Monitor/Sensor location from the display. 2. Re-add Monitor/Sensor to an available location on display (see page 11).
<p>Inaccurate forecast</p>	<ul style="list-style-type: none"> • Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. • Verify at least one weather-resistant Monitor/Sensor is placed outdoors with the location name set to OUTDOOR. This is required for full weather forecast functionality. • 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.
<p>Inaccurate temperature or humidity</p>	<ul style="list-style-type: none"> • Verify the product that is reporting an inaccurate temperature reading is placed out of direct sunlight and away from any heat sources or vents (see page 8). • Verify the product that is reporting an inaccurate humidity reading is positioned away from moisture sources (see page 8).
<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.

Problem	Possible Solution
<p>Sensor not recognized</p>	<p>If the Home Environment Display is being used with more than one Temperature & Humidity Sensor (models 06002 or 06044), the A-B-C channels must differ between each sensor.</p> <ol style="list-style-type: none"> 1. Bring the display and wireless sensors together and position them side-by-side. 2. Remove the power adapter from the display. 3. Verify that each sensor has a different A-B-C channel selected. <ul style="list-style-type: none"> • Model 06002 - Locate the A-B-C switch inside the battery compartment to adjust channel setting. • Model 06044 - Locate the A-B-C button on the back of the sensor to adjust channel setting (indicated on sensor display). 4. Re-install sensor batteries (if applicable). 5. Plug in display's power adapter. <p>Note: It may take a few minutes for the display and sensor(s) to synchronized after batteries are replaced.</p>

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% RH
OPERATING FREQUENCY	433 MHz
POWER	5vdc power adapter
DATA REPORTING	Display Data: 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
- ▶ Register your Product
- ▶ Instruction Manuals
- ▶ Support User Forum
- ▶ Replacement Parts
- ▶ 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 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