



AcuRite 06024 Home Environment Display User Manual

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AcuRite 06024 Home Environment Display User Manual



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 LCD screen before using this product. Locate the tab and peel off to remove it.

Package Contents

- 1. Display
- 2. Power adapter
- 3. Instruction Manual

Features & Benefits



FRONT OF DISPLAY

1. Backlight Button

Activates momentary backlight during battery power. Acts as a dimmer control while using the power adapter.

2. Color-coded Location Buttons

For setup and viewing location data.

3. (((**4**))) . Button

For alarm setup. Press and HOLD to disable all alarms.

4. ▲ and ▼ Buttons

For setup preferences and menu navigation.

5. SET Button

For setup preferences and menu navigation.

6. Button

For settings and viewing location high and low records.

BACK OF DISPLAY





- Integrated Hang Holes
 For easy wall mounting.
- 2. Battery Compartment
- 3. Plug-in for Power Adapter
- 4. RESET Button

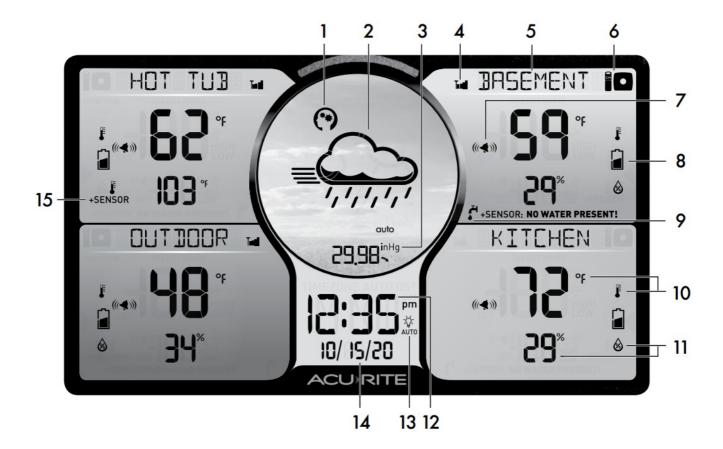
Press and release for full reset to factory defaults.

5. CLEAR Button

For resetting the high and low records that are stored for the location(s) that the display is tracking.

- 6. Fold-out Stand For tabletop use.
- 7. Battery Compartment Cover

DISPLAY SCREEN



1. Learning Mode" Icon

Disappears after weather forecast self-calibration is complete (see page 12).

2. 12 to 24-Hour Weather Forecast

Self-Calibrating Forecasting pulls data from your backyard to generate your forecast.

3. Barometric Pressure

The Arrow icon indicates direction pressure is trending.

4. Wireless Signal Strength

Signal strength detected for the external Monitor or Sensor (sold separately) that is reporting data for the location (#5).

5. Location Name

Label your data readings by location name (see page 8).



Indicates style of monitor during monitor setup (see page 10).

7. ((A)) . Alarm ON Indicator

Indicates alarm is activated to emit an audible alert when conditions exceed your presets (see page 13).

8. Low Battery Indicator

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



Water Detector Icon

Indicates Water Detector (sold separately) is reporting data.



Temperature Icon

Temperature reading reported by the product that is installed in the location indicated ("Kitchen" in the example shown).



. Humidity Icon

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

12. Clock



13. AUTO Indicator

Indicates display is in auto-dimming brightness mode (see page 11).

14. **Date**

15. +SENSOR Icon

Indicates a Wired Sensor (sold separately) is reporting data to the display. Shown with temperature, humidity and water detector icons when displaying wired sensor data (#8, #9 and #10).

SETUP

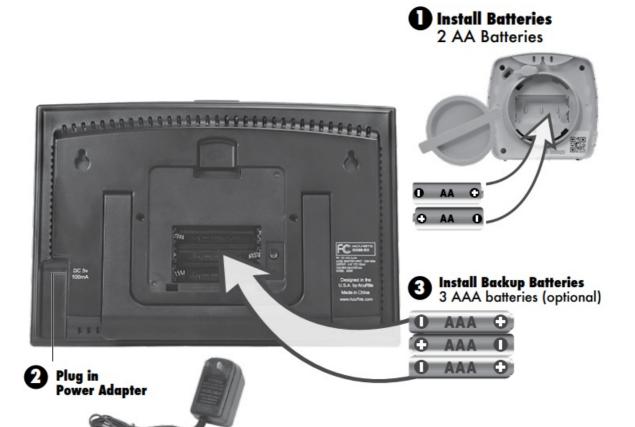
Display Setup

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. If you wish to perform this step at a later time, please see "Add On a Monitor/Sensor" directions on page 10.

2. Plug the Power Adapter into the Electrical Outlet

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



3. Install or Replace Backup Batteries (optional)

- · Remove the battery compartment cover.
- Insert 3 x AAA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
- Replace the battery cover.

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

Important Note:

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

BATTERY SAFETY: Clean the battery contacts and also those of the device before battery installation. Remove batteries from equipment that is not to be used for an extended 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.

Set the Time, Date & Units

Press and release the "SET" 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 "SET" button again to adjust the next preference. The preference set order is as follows:

- TIME ZONE (EST, AST, NST, HAT, AKT, PST, MST, CST) AUTO DST* (Daylight Saving Time ON or OFF)
- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- TEMPERATURE SCALE (°F or °C)
- BAROMETRIC PRESSURE SCALE (inHg or hPa)

*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.

You will automatically exit SET MODE if no buttons are pressed for 10 seconds.

• Enter SET MODE at any time by pressing the "SET" button.

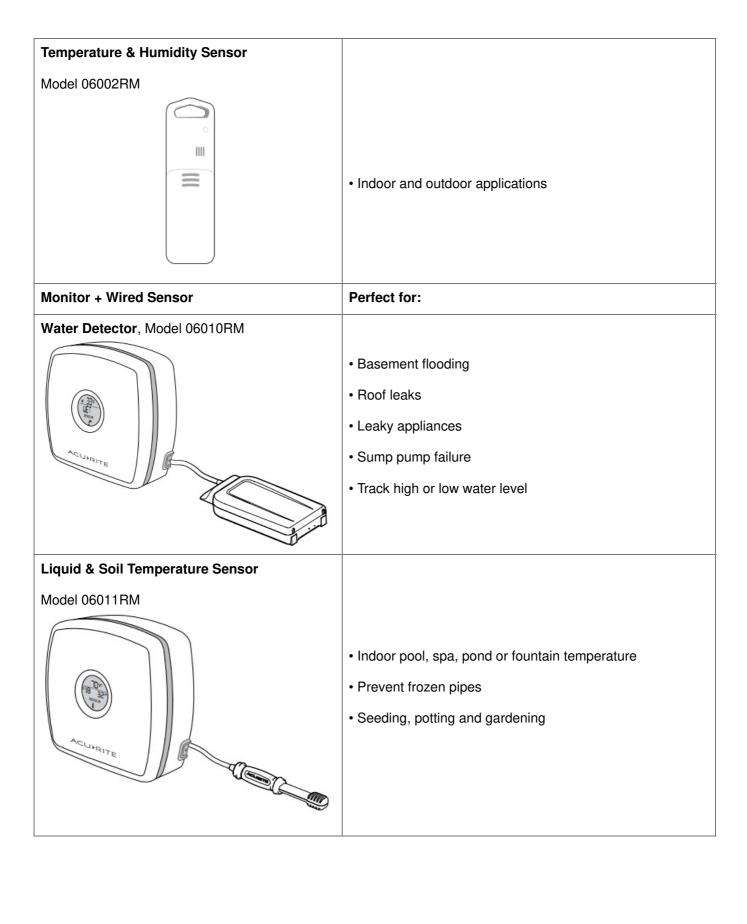
Expand the System

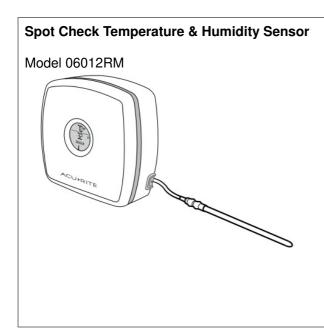
The display features built-in sensors for measuring temperature and humidity at its location. The display can be expanded to track additional conditions by using compatible Monitors and Sensors (optional; sold separately). Add up to 3 indoor and/or outdoor Monitors and Sensors to observe conditions in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

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

Compatible Monitors	Perfect for:
Temperature & Humidity Monitor	
Model 00275RM	
ACUSANTO	Outdoor applications
Room Monitor, Model 00276RM	
ACU+RITE	Indoor applications

Compatible Monitors	
(continued)	Perfect for:





- Monitor conditions in hard-to-reach places (attic, basement , etc.)
- · Pet areas
- Evaluate heating and cooling efficiency and coverage in yo ur home
- Monitor conditions in the nursery or child's room

Setup a Location Name on the Display

For easy home environment monitoring, label data readings on the display using the following directions. Simply select the name from a preset list that most closely matches the location where the display, Monitor or Sensor that is reporting data for the location is installed:

- 1. Press and release the color-coded button next to the location you want to update on the display.
- 2. Press and release the " " button.
- 3. Press and release the "▲" or "▼" buttons until "EDIT NAME" is showing.
- 4. Press and release the "SET" button.
- 5. Press and release the "▲" or "▼" buttons to cycle through the available location names.
- 6. Press and release the "SET" button to confirm a name selection.

Location Names				
AQUARIUM	BEDROOM 4	HOT TUB	OTHER	
ANIMALS	CELLAR	HUMIDOR	OUTDOOR	
ATTIC	COOLER	INDOOR	POOL	
BARN	DINING RM	KITCHEN	PORCH	
BASEMENT	FAMILY RM	LAUNDRY	SPA	
BATHROOM	FREEZER	LIVING RM	STORAGE	
BATHROOM2	FRIDGE	MASTER BR	SUMP PUMP	
BATHROOM3	GARAGE	MUSIC RM	UPSTAIRS	
BEDROOM	GARDEN	NURSERY	UTILITY	
BEDROOM 2	GUEST RM	OFFICE	WINE	
BEDROOM 3				

Remove a Location from the Display

Remove a location's data readings and disconnect from the display by accessing the "DELETE" screen:

- 1. Press and release the color-coded button next to the location you want to delete from the display...
- 2. Press and release the " * button.
- 3. Press and release the "▲" or "▼" buttons until "DELETE" is showing.
- 4. Press and release the "SET" button. "DELETE MONITOR" will flash.
- 5. Press and release the "SET" button to remove the location from the display

Sync a New Monitor or Sensor with the Display

To manually add a new Monitor or Sensor to the display:

- 1. Press and release the color-coded button next to a location on the display with the name "AVAILABLE." Next, "ADD MONITOR" will flash at the top of the display.
- 3. Press and release the "▲" or "▼" buttons to highlight the icon that represents the type of product you are adding.
- 4. Press the "SET" button to confirm your selection. "SELECT ID" appears on the display.
- 5. Press and release the "▲" or "▼" buttons to cycle through the Monitors and/ or Sensors that the display has wirelessly identified
- 6. Press the "SET" button to confirm your selection. "SELECT NAME" appears on the display.
- 7. Press and release the "▲" or "▼" buttons to cycle through the available location names. Select the name that most closely matches the location where the Monitor or Sensor that is reporting data for the location is installed.
- 8. Press the "SET" button to confirm your selection.

The new Monitor or Sensor will now synchronize with the display. It may take a few minutes for synchronization to complete. Please refer to the troubleshooting section of this manual if anything appears to be functioning improperly.

Move Location Data to a Different Position on the Display The location data on the display can be moved to a different position on the display. First, identify the two (2) data areas that you want to swap positions. Press and HOLD the color-coded buttons found next to each area simultaneously for 5 seconds. The data will switch positions on the display.

Backlight Settings

The color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (30%) brightness. Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the Backlight button.

When display is powered by the power adapter, backlight remains on at 100% brightness. Press the Backlight button once to dim to 60% brightness; press again to dim to 30%, press a 3rd time to enter "AUTO DIM" mode. " " appears on the display.

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. = 30% brightness

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 or is wall-mountable.

Important Placement Guidelines

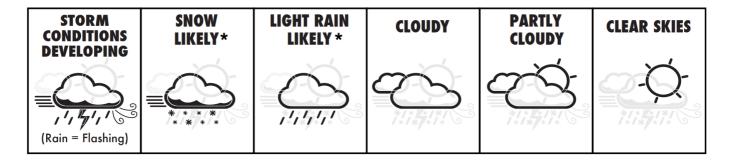
- To ensure accurate temperature measurement, place product out of direct sunlight and away from any heat sources or vents.
- Display and add-on Monitors/Sensors must be within 330 feet (100 m) of each other.
- To maximize wireless range, place product away from large metallic items, thick walls, metal 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.).

OPERATION

Using the Home Environment Display 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.

Please 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 or GARDEN.



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

Learning Mode

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 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.

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).

High & Low Records

High and low values are recorded for the data the display is tracking. To view high and low record information for a location:

- 1. Press and release the color-coded button next to the location for which you wish to view records.
- 2. Press and release the " Dutton. "RECORDS" will be shown.
- 3. Press and release the "SET" button.

While viewing the "RECORDS" screen, the display will automatically scroll through the high and low records for TODAY and ALL TIME. Today's records automatically clear at 12:00am midnight every day. All-time records are the highest and lowest values recorded since the unit was powered on. A timestamp is shown in the clock area of the display indicating when the record values were recorded.

To manually clear the records currently being viewed, press and release the CLEAR button, located in the battery compartment of the display. Dashes display to confirm you have cleared the record currently being viewed.

Programmable Alarms

This display features programmable alarms that sound an alert to notify you when a value (for temperature, humidity, etc.) has been reached or exceeded. When an alarm is triggered, the display emits an audible beep and flashes data in the affected category. You can customize the alarms by turning ON or OFF the alarms you'd like activated or deactivated, and most alarms allow you to input your own values to trigger the alarm. By default, the water detector alarm is preset to ON.

Setup an Alarm

- 1. Press and release the color-coded button next to a location on the display for which you wish to set an alarm.
- 2. Press and release the " (()) " button to enter alarm SET MODE.
- 3. Press and release the " (() ", until the reading for which you wish to set an alarm is highlighted on the display. "ALARM OFF" will flash.
- 4. Press and release the "▲" or "▼" buttons until "ALARM ON" appears.
- 5. Press and release the " (() " to cycle to the next reading for the location.
- 6. Repeat steps 3-5, as needed.

Edit an Alarm

- 1. Press and release the color-coded button next to a location on the display for which you wish to update an alarm.
- 2. Press and release the " (((4)))" button to enter alarm SET MODE.
- 3. Press and release the " (((**)*) ", until the data reading that you wish to adjust an alarm for is highlighted on the display.
- 4. Press and release the "SET" button. "SET ALARM" will be shown.
- 5. Press and release the "▲" or "▼" buttons to adjust the reading's HIGH value.
- 6. Press and release the "SET" button.
- 7. Press and release the "▲" or "▼" buttons to adjust the reading's LOW value.
- 8. Press and release the "SET" button to end alarm adjustments, OR press and release the " (() " to adjust the next reading's values.

Troubleshooting

Problem	Possible Solution
	If the wireless signal indicator shows no bars:
	Relocate the display and/or synced Monitor/Sensor (if applicable). The p roducts must be within 330 ft (100 m) of each other
	Make sure products (display, Monitors, Sensors) are placed at least 3 fe et (.9 m) away from electronics that may interfere with the wireless comm unication (such as TVs, microwaves, computers, etc).
No reception	Use standard alkaline batteries (or lithium batteries in Monitors and Sen sors when temperature is below
no bars	-4°F/-20°C). Do not use heavy duty or rechargeable batteries. NOTE: It m ay take up to 20 minutes for display and add-on Monitors / Sensors to syn chronize after batteries are replaced.
	Flashing of the temperature reported by a Monitor/ Sensor is generally an indication of wireless interference between the sensor and display.
	Remove the Monitor/Sensor location from the display (see page 9).
Temperature is flashing or showing dashes	2. Re-add Monitor/Sensor to an available location on display (see page 1 0).
	Weather Forecast icon predicts conditions for the next 12 to 24 hours, n ot current conditions.
	Verify at least one weather-resistant Monitor/Sensor is placed outdoors with the location name set to OUTDOOR or GARDEN. This is required for full weather forecast functionality.
	Verify the Learning Mode " " icon has disappeared from the display. L earning Mode must complete before forecast and pressure will be accurat e.
Inaccurate forecast	Allow product to run continuously for 33 days. Battery removal 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.
	Verify the product that is reporting an inaccurate temperature reading is placed out of direct sunlight and away from any heat sources or vents (se e page 11).
Inaccurate temperature or humid ity	Verify the product that is reporting an inaccurate humidity reading is positioned away from moisture sources (see page 11).

Problem	Possible Solution
	Check that the power adapter is plugged into the display and an electric al outlet.
Display screen not working	Reset the display by pressing the RESET button, located in the battery c ompartment of the display. Date and time will need to be entered after a r eset

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.

Calibration

Calibrate Temperature and Humidity

The temperature and humidity readings can be calibrated on the display to improve accuracy. Calibration can improve accuracy when product placement or environmental factors impact your data accuracy.

- 1. Press AND HOLD both the "SET" button and color-coded button (found next to the location reading you wish to calibrate) simultaneously for 10 seconds.
- 2. Once in calibration mode, the reading you are currently calibrating will show on the display.
- 3. Press the "▲" or "▼" buttons to calibrate the data value higher or lower from the actual reading. The arrow in the forecast area indicates whether your current calibrated value is higher, lower or the same as the actual reading.
- 4. Press the "SET" button to confirm the calibration adjustment. The "" icon will remain illuminated next to calibrated values.
- 5. The next adjustable data will be displayed, indicating it is ready to be calibrated. Repeat Steps 2 4 to calibrate additional data.
- After returning to normal viewing mode, repeat steps 1 − 5 to calibrate readings for additional locations.
 Note: Calibrations will be erased if the display is reset or if batteries are removed and the power adapter is unplugged.

Calibrate Barometric Pressure

The default pressure mode is set to "auto." In auto mode, the pressure will calibrate itself over a 14 day Learning Mode. Barometric pressure can be manually calibrated:

- 1. Press AND HOLD the "SET" button for at least 10 seconds to enter manual pressure mode.
- 2. The "manual" indicator will be shown above the un-calibrated pressure reading. Press AND HOLD both the "SET" button and color-coded button (found next to the location name of the display) for 10 seconds.
- 3. Press the "▲" or "▼" buttons to calibrate the data value higher or lower from the actual reading. The arrow located next to the pressure reading indicates whether your current calibrated value is higher, lower or the same as the actual reading.

4. Press the "SET" button to confirm the calibration adjustment. The " " icon will remain illuminated next to the calibrated value.

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

To exit manual pressure mode and return to auto mode press and hold the "SET" button for at least 10 seconds.

Specifications

DISPLAY'S BUILT-IN TEMPERATU RE SENSOR RANGE	32ºF to 122ºF; 0ºC to 50ºC	
DISPLAY'S BUILT-IN HUMIDITY S ENSOR RANGE	1% to 99% RH	
WIRELESS RANGE	330 ft / 100 m depending on home construction materials	
OPERATING FREQUENCY	433 MHz	
	Display: 5vdc power adapter	
POWER	3 x AAA alkaline batteries (optional)	

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, under 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 by 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 to 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 license-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 info@chaney-inst.com 24/7 support 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 at www.AcuRite.com

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 <u>www.AcuRite.com</u> 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 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 that 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 instead 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

It's more than accurate, it's AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence $^{\mathsf{TM}}$.

www.AcuRite.com

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References

• User Manual

Manuals+, Privacy Policy

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