Professional Weather Display
model 06086

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

CONTENTS

Questions? Visit www.**acurite**.com/support

SAVE THIS MANUAL FOR FUTURE REFERENCE.

ACU·RITE®

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 prior to using this product. Locate the tab and peel off to remove.

Package Contents

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

IMPORTANT	PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION
Register online to receive 1-year warranty protection
www.**acurite**.com/product-registration

Wi-Fi Setup for Weather Underground

This weather station features wireless internet connectivity in order to connect and send your data to Weather Underground. If you do not already have a WU (Weather Underground) account, please create your account at wunderground.com prior to the following Wi-Fi setup.

1. Add this weather station to your Weather Underground account:
   - On a desktop or mobile web browser, log in to your Weather Underground account.
   - Once logged in, navigate to the My Profile menu, select My Devices from the dropdown list, and click Add New Device.
   - When prompted to Select A Device Type, select AcuRite Iris (5-in-1) Weather Station with Wi-Fi from the dropdown list and hit Next.
   - Then, enter location information before hitting Next.
   - Enter the remaining weather station information required by Weather Underground and hit Next.
   - If all required information was accepted without errors, you'll be provided with a Weather Underground Station ID and Station Key. Copy and Save these as you will need then in Step 5, below.
2. Power on the display (using included power cord).*
3. Once the display is on:
   - Open the Wi-Fi settings of your Wi-Fi-compatible device and select and connect to the Wi-Fi network with "AcuRite" in its name.
     › If you see any "unsecure network" warnings, know that it's safe to continue.
     › You will not be able to access the internet while connected to this "AcuRite" network.

4. Once connected to the Wi-Fi network with "AcuRite" in its name:

   • Open a web browser on the device you used to connect to the display.

   • To access the AcuRite Wi-Fi display setup page, type the following into the address bar and then press go/enter/return: 192.168.4.1

   • Troubleshooting if the setup page does not load:

     › Make sure you are still connected to the AcuRite Wi-Fi network you connected to in step 3.

     › Unplug the display, plug it back in, and try setup again.

     › Contact Support at acurite.com/support

5. Once the setup page loads:

   • Select your personal Wi-Fi network name, enter your network password, enter your Weather Underground Station ID and Station Key from Step 1 above, and press Save.

   • If Wi-Fi credentials are successfully entered, the Wi-Fi indicator on the display will stop flashing and become solid, signifying the signal strength of your Wi-Fi connection.

   • Troubleshooting if the setup page does not load:

     › If the Wi-Fi icon continues to flash with a Flashing X [🛜X] — Wi-Fi still needs to be configured on the display. Repeat Wi-Fi steps 3-4.

6. A Wi-Fi status message will appear confirming your connection to the display. If the connection was not successful, please verify your credentials and/or visit the Troubleshooting section (see page 13).

7. Once connected, data from your AcuRite Iris (5-in-1) sensor will automatically begin to upload to Weather Underground. Monitor sensor data remotely at www.wunderground.com or from a mobile device using the Weather Underground app, available from the iOS App Store or Google Play Store.

   * The Wi-Fi signal on your display is broadcasted for 30 minutes after the display is powered on. Press the "✿" button to reactivate the Wi-Fi signal broadcast at any time. Please note, however, that the display will not indicate that its Wi-Fi signal is broadcasting. Check your settings on your setup device for the display's Wi-Fi signal.

   To retain Wi-Fi configuration details, backup batteries are strongly recommended for the display. The display can be power cycled at any time to clear Wi-Fi credentials, records, and other settings. Simply remove the batteries, unplug the display, replace the batteries, and plug the display back in to power cycle the unit.
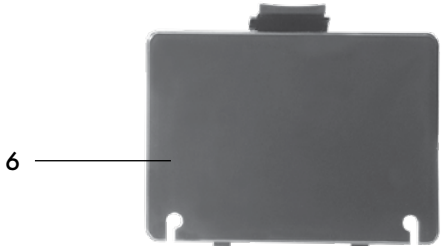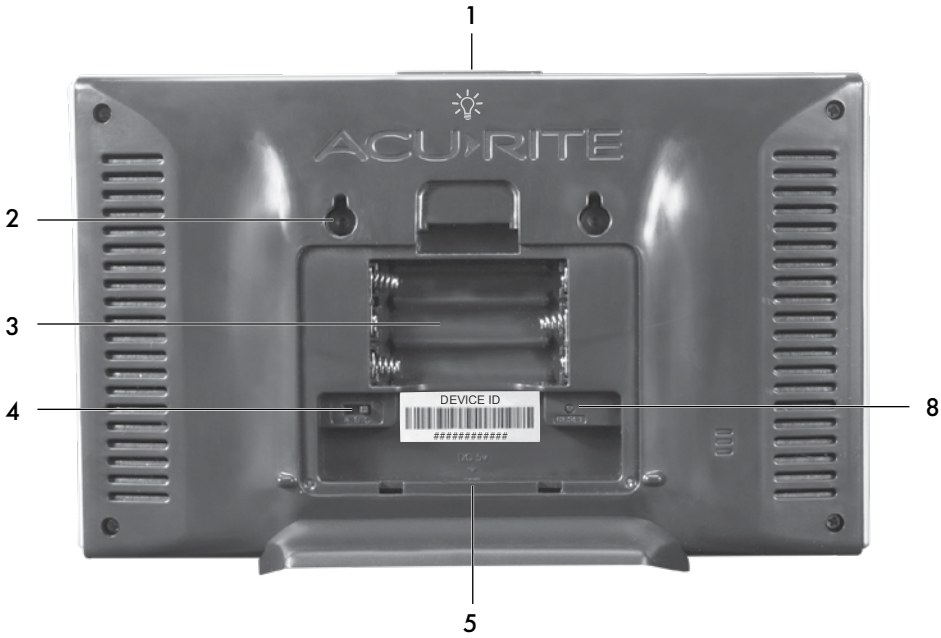   Visit acurite.com/support for additional help on Wi-Fi Setup.

   ** This weather station display only supports 2.4 GHz wireless networks.

About Weather Underground

Weather Underground is a commercial weather service providing real-time weather information via the internet. Weather Underground provides weather reports for most major cities worldwide and local weather reports for newspapers and websites. Its information comes from the National Weather Service and over 250,000 personal weather stations.
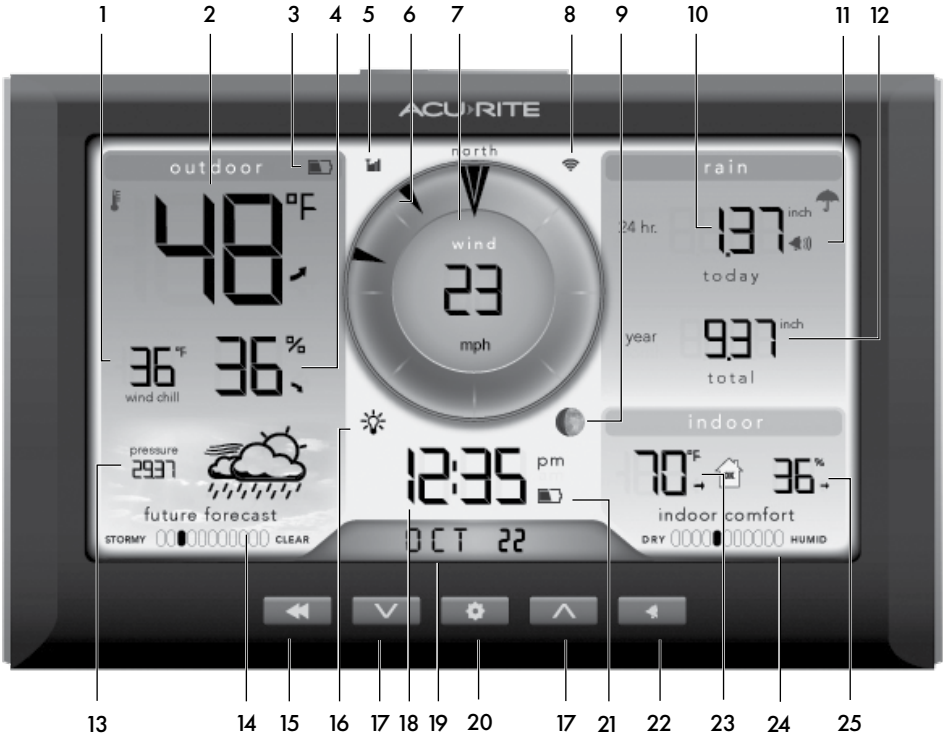
Features & Benefits

1

2

3

DEVICE ID
############

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7

DISPLAY BACK

1. **Backlight Button**
   For momentary backlight and dimmer settings.

2. **Integrated Keyhole Hangers**
   For easy wall mounting.

3. **Backup Battery Compartment**

4. **A-B-C Switch**
   ID code that must match sensor's A-B-C switch to ensure units synchronize.

5. **Plug-in for Power Adapter**

6. **Battery Compartment Cover**

7. **Power Adapter**

8. **RESET Button**
   Press and release to clear historical record. Press and hold for 10 seconds for full reset to factory defaults.

Features & Benefits

Display

DISPLAY FRONT

1. **Seasonal Display**
   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 below. Wind chill calculation displays when temperature is 40°F (4°C) or lower.

2. **Current Outdoor Temperature**
   Arrow icon indicates direction the temperature is trending.

3. **Sensor Low Battery Indicator**

4. **Current Outdoor Humidity**
   Arrow icon indicates the direction the humidity is trending.

5. **Outdoor Sensor Signal Strength**

6. **Current Wind Direction**

7. **Wind Speed**
   now: indicates current wind speed.
   avg: indicates the average of all speeds over the past 2 minutes.
   peak: indicates the highest speed form the last 60 minutes.

8. **Wi-Fi 🛜 Icon**
   Indicates display is connected to your wireless network.

9. **Moon Phase**

10. **Current Rainfall**
    Rainfall recorded since 12:00 am.

11. **🔊 Icon**
    Indicates an alarm value has been activated.

12. **Previous Rainfall Data**

13. **Current Barometric Pressure**

14. **12 to 24 Hour Weather Forecast**
    Self-Calibrating Forecasting pulls data from outdoor sensor to generate your personal forecast.

15. **⏪ Button**
    For viewing high and low records.

16. **☼auto Icon**
    Indicates display is in auto-dimming brightness mode (see page 9).

17. **∨ and ∧ Buttons**
    For setup preferences.

18. **Clock**

19. **Date**

20. **⚙ Button**
    For setup preferences.

21. **Display Low Battery Indicator**

22. **◀ Button**
    For alarm setup.

23. **Current Indoor Temperature**

24. **Humidity Level Indicator**
    Indicates a low, high or ideal humidity comfort level.

25. **Current Indoor Humidity**
    Arrow icon indicates the direction the humidity is trending.

Display Setup

❶ 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.

❷ Install or Replace Backup Batteries
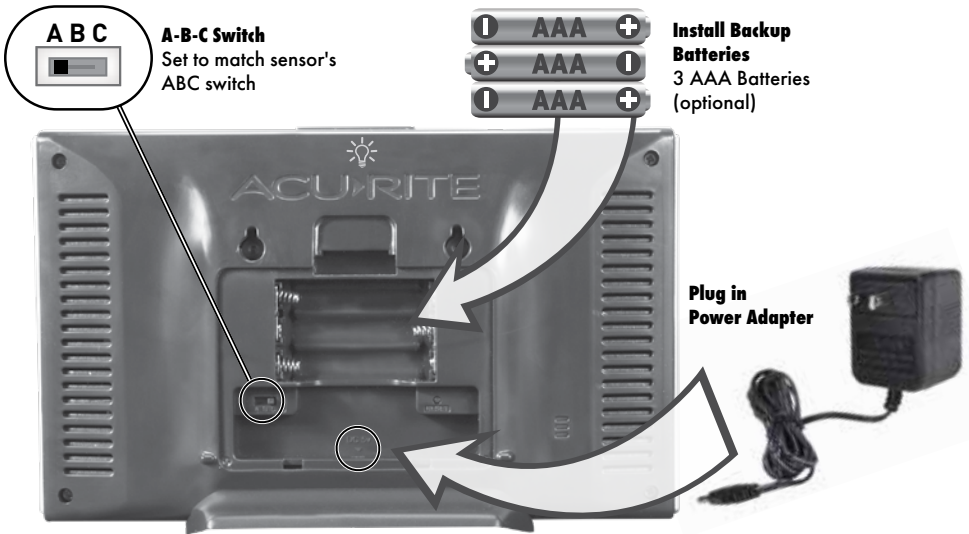
(optional)

1. Remove the battery compartment cover.

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.

❸ Plug in Power Adapter

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

Display Setup

A B C

A-B-C Switch
Set to match sensor's ABC switch

AAA
AAA
AAA

Install Backup Batteries
3 AAA Batteries (optional)

Plug in Power Adapter

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 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-circui the supply terminals.

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.).

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 (ºF or ºC)
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 8 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 Backlight 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, backlight 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. "🔆" will appear next to the clock.

NOTE: Pressing and holding the "🔆" button for 5 seconds will disable the backlight. Once any button is pressed, the backlight will return to your selected setting.

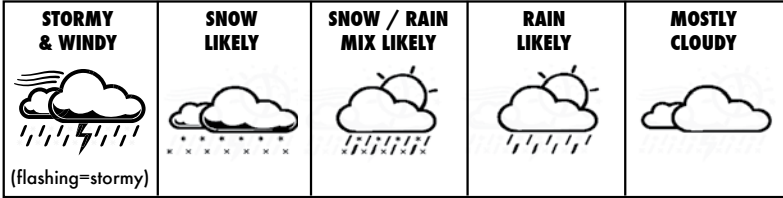| AUTO DIM MODE: Automatically adjusts display brightness based on time of day. |
| --- |
| 6:00 a.m. - 9:00 p.m. = 100% brightness |
| 9:01 p.m. - 5:59 a.m.= 15% brightness |

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 self-calibrated pressure is tuned in to your location and the unit is ready for superior weather prediction.
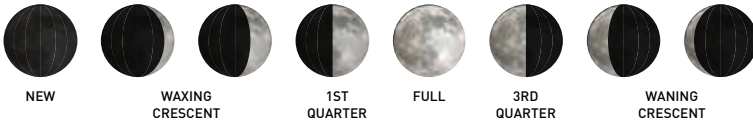
Weather Forecast

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.

STORMY & WINDY	SNOW LIKELY	SNOW / RAIN MIX LIKELY	RAIN LIKELY	MOSTLY CLOUDY
(flashing=stormy)				

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

Moon Phase

Track the phases of the moon, conveyed through simple lunar phase icons:

NEW	WAXING CRESCENT	1ST QUARTER	FULL	3RD QUARTER	WANING CRESCENT

High & Low Records

High and low records for today and all-time are displayed for outdoor temperature and humidity. Rain accumulation data is recorded for today, this week, by month and by year. Today's records automatically clear at 12:00am midnight every day.

Press and release the "◀◀ " button to cycle through all historical records. While viewing historical records, a date and timestamp are shown for when each value was recorded. You will automatically exit records if no buttons are pressed for 8 seconds.

To manually clear a HIGH or LOW record, press and release the RESET button, located in the battery compartment, while viewing the record(s) you wish to clear. Dashes display to confirm you have cleared the record(s).

Programmable Alarms

This display features programmable alarms that sound an alert to notify you when a value (for outdoor temperature, humidity, wind speed or rainfall) 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 by inputting your own values to trigger the alarm.

Setup an Alarm

1. Press and release the " 🔊 " button until the reading for which you wish to set an alarm is shown on the display. " 🔕 " will be shown.

2. Press and release the " ∨ " or " ∧ " buttons until " 🔊 " appears.

3. Press and release the " ⚙ " button. The current alarm value will flash on the display.

4. Press and release the " ∨ " or " ∧ " buttons to adjust the alarm's value.

5. Press and release the " 🔊 " button to save the alarm value.

6. Press and release the " ⚙ " button to cycle to the next reading.

Disable an Alarm

1. Press and release the " 🔊 " button until the reading for which you wish to disable an alarm is shown on the display. " 🔊 " will be shown.

2. Press and release the " ∨ " or " ∧ " buttons until " 🔕 " appears.

3. Press and release the " 🔊 " button to cycle to the next reading.

4. Repeat steps 1-3, as needed.

NOTE: To disable ALL alarms at once, press and HOLD the " 🔊 " button for 10 seconds.

You will automatically exit alarm SET MODE if no buttons are pressed for 10 seconds. Enter alarm SET MODE at any time by pressing the " 🔊 " button.

Troubleshooting

Problem	Possible Solution
No outdoor sensor 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 -4ºF/-20ºC). 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 batteries/power adapter from each. 2. Reinstall batteries in outdoor sensor. 3. Reinstall batteries/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.
Outdoor temperature is flashing or showing dashes	Flashing of the outdoor temperature may be an indication of wireless interference. • Make sure the A-B-C switch in the battery compartments of both the display and sensor are switched to the same letter. You may choose A, B or C; but both units must match to sync up. Sometimes changing to a different channel can help.
Inaccurate forecast	• Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. • Allow unit 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.
Display screen not working	• 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 on the back of the display. Date and time will need to be entered after a reset.

Troubleshooting

Problem	Possible Solution
Display not connecting to Wi-Fi	• Your internet router and display must be within range of each other. Relocate your display closer to your router. • Ensure the network name (SSID) and password you've entered are correct. NOTE: Both network name and password are case sensitive. • Reset the display by pressing and holding the RESET button for 10 seconds, located in the battery compartment of the display. Date and time will need to be entered after a reset. • Make sure DCHP is enabled on your router. Most routers have DHCP enabled by default. • Ensure your router is broadcasting a 2.4 GHz network. The weather station display is equipped with a Wi-Fi module that only supports 2.4 GHz wireless networks.
Data not uploading to Weather Underground™	Navigate to "192.168.4.1" in your web browser. Confirm that your Station ID and Station Key are entered correctly.
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 11). • Make sure both units are positioned away from moisture sources (see page 11). • Make sure 5-in-1 sensor is mounted at least 5 ft off of the ground.
Inaccurate wind readings	• 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.

> **If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.acurite.com/support.**

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	32ºF to 122ºF; 0ºC to 50ºC
DISPLAY'S BUILT-IN HUMIDITY SENSOR RANGE	1% to 99%
OPERATING FREQUENCY	433 MHz
POWER	5V power adapter 3 x AAA alkaline batteries (optional)
DATA REPORTING	Display: Indoor temperature & humidity: 60 second updates
DATA REPORTING	Wind Speed: 18 second updates; Direction: 36 seconds Outdoor temperature & humidity: 36 second updates Indoor temperature & humidity: 60 second updates
WI-FI	802.11.b/g/n Weather Underground connectivity requires an active 2.4 GHz broadband internet connection and an active Weather Underground account.

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:

Chat with our support team at www.**acurite**.com/support

Email us at support@chaney-inst.com

► Instruction Manuals
► Replacement Parts

IMPORTANT
PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION
Register online to receive 1-year warranty protection
www.**acurite**.com/product-registration

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®

www.**AcuRite**.com