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.

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

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

SAVE THIS MANUAL FOR FUTURE REFERENCE.
Features & Benefits

Display
1. Previous 2 Wind Directions
2. Current Wind Speed
3. Current Wind Direction
4. Current Indoor Temperature
   Arrow icon indicates direction temperature is trending.
5. Display Low Battery Indicator
6. Peak Wind Speed
   Highest speed from the last 60 minutes.
7. Current Indoor Humidity
   Arrow icon indicates direction humidity is trending.
8. Wind Speed Alert Indicator
   Activates when wind speed is over 50 mph.
9. Clock
10. Rainfall Alert Indicator
    Indicates rainfall of more than 1” (25 mm) of rain in 2 hours or less.
11. AUTO DIM Indicator
    Indicates display is in auto-dimming brightness mode (see page 6).
12. Current Rainfall Total
    Accumulates data during rainfall.
13. 12 to 24 Hour Weather Forecast
    Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.
14. Storm Alert Indicator
    Activates when barometric pressure drops.
15. Month/Year/All-Time Rainfall
16. Current Barometric Pressure
    Arrow icon indicates direction pressure is trending.
17. RAINFALL Button
    Press to change the RAINFALL data being displayed (Month, Year, All-Time).
18. ^ and V Buttons
    For setup preferences.
19. SET Button
    For setup preferences.
20. SELECT Button
    Press to change the WEATHER SELECT category data being displayed.
21. Weather Ticker™
22. Heat Index/ Wind Chill Alert Indicator
    Activates when heat index rises over 90°F (32°C) or when wind chill drops below -17°F (-27°C).
23. Learning Mode Icon
    Disappears after weather forecast self-calibration is complete.
24. WEATHER SELECT
    Displays heat index, dew point, wind chill, feels like, days with rain this month, and days since last recorded rainfall.
25. Date
26. Current Outdoor Humidity
    Arrow icon indicates direction humidity is trending.
27. Average Wind Speed
    Average wind speed over the past 2 minutes.
28. 5-in-1 Sensor Signal Strength
29. Sensor Low Battery Indicator
30. Current Outdoor Temperature
    Arrow icon indicates direction temperature is trending.
BACK OF DISPLAY

1. Integrated Hang Hole
   For easy wall mounting.

2. Button
   For dimmer control while using power adapter. Activates momentary backlight while on battery power.

3. Plug-in for Power Adapter

4. Removable Tabletop Stand

5. CLEAR ALL/RESET Button
   Press and HOLD for 10 seconds for full reset to factory defaults.

6. A-B-C Switch
   ID code that must match 5-in-1 sensor’s A-B-C switch to ensure units synchronize.

7. Power Adapter

8. Battery Compartment Cover
   (not shown)
**Display Setup**

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

1. **Set the A-B-C Switch**
   The A-B-C switch is located inside the battery compartment. It can be set to A, B or C. However, you must select the same letter choices for both the sensor and the display in order for the units to synchronize.

2. **Plug Power Adapter into Electrical Outlet**

3. **Install or Replace Batteries (optional)**
   Insert 6 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.

**IMPORTANT:** Batteries are a backup power source to preserve records in the event of a power outage. Power adapter is the recommended 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-circuit the supply terminals.
Set the Time, Date & Units

Press 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:

**TOP DISPLAY:**
- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- TEMPERATURE UNITS (°F or °C)
- WIND SPEED UNITS (MPH, km/h, Knots)
- RAINFALL UNITS (in or mm)
- PRESSURE UNITS (inHg or hPa)

**TICKER DISPLAY:**
- LANGUAGE (English, French, Spanish)
- WEATHER TICKER SPEED (SLOW, MEDIUM, FAST)

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

Display Backlight Settings

This weather station’s 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 “*” button.

When display is powered with the power adapter, backlight remains on at 100% brightness. Press “*” button once to dim to 60% brightness; press again to dim to 30%, press a 3rd time to enter “AUTO DIM” mode. “AUTO DIM” will appear below the clock.

<table>
<thead>
<tr>
<th><strong>AUTO DIM MODE:</strong> Automatically adjusts display brightness based on time of day &amp; year.</th>
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<tbody>
<tr>
<td><strong>MARCH 11- NOVEMBER 4</strong></td>
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<td><strong>NOVEMBER 5 - MARCH 10</strong></td>
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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 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 units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.

Prevent Wireless Interference
Place both units at least 3 (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).

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
Weather Select
Weather Select displays data including wind chill, dew point, heat index, feels like, days with rain this month, and days since last recorded rainfall. To change the “Weather Select” category shown, press the “SELECT” button on the front of the display.

Barometric Pressure
Subtle variations in barometric pressure greatly affect the weather. This weather center 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, by month, and by rainfall event.

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

Records are shown in the following order:
PREVIOUS RAINFALL #1*
PREVIOUS RAINFALL #2*
PREVIOUS RAINFALL #3*
CURRENT MONTH TOTAL RAINFALL
PREVIOUS MONTH TOTAL RAINFALL
2 MONTHS AGO TOTAL RAINFALL
CURRENT YEAR TOTAL RAINFALL
PREVIOUS YEAR TOTAL RAINFALL
ALL-TIME TOTAL RAINFALL (date shown is start date of the all-time total; the date the display was powered on)

*Previous rainfall is the amount of rain recorded from 12:00am to 11:59pm on the date shown.
Weather Ticker™

The Weather Ticker automatically flashes your real-time weather information and alerts as text in the lower part of the display screen.

The possible WEATHER TICKER messages are as follows:

- HEAT INDEX-XX
- WINDCHILL-XX
- DEW POINT-XX
- IT FEELS LIKE XX OUTSIDE
- 7 DAY HIGH TEMP. XX- MM/DD
- 7 DAY LOW TEMP. XX- MM/DD
- 30 DAY HIGH TEMP. XX- MM/DD
- 30 DAY LOW TEMP. XX- MM/DD
- ALL TIME HIGH TEMP. XXX...RECORDED MM/DD/YY
- ALL TIME LOW TEMP. XXX...RECORDED MM/DD/YY
- 24 HOUR TEMP. CHANGE +XX
- ALL TIME HIGH WIND XX MPH...RECORDED MM/DD/YY
- 7 DAY AVERAGE WIND XX MPH
- TODAY’S AVERAGE WIND XX MPH
- MOON- NEW
- MOON- WAXING CRESCENT
- MOON- FIRST QUARTER
- MOON- WAXING GIBBOUS
- MOON- FULL
- MOON- WANING GIBBOUS
- MOON- LAST QUARTER
- MOON- WANING CRESCENT
- INDOOR HUMIDITY OK
- INDOOR HUMIDITY HIGH
- INDOOR HUMIDITY LOW
- NEW LOW TEMP. RECORD XX
- NEW HIGH TEMP. RECORD XX
- NEW WIND RECORD TODAY XX
- CURRENT RAINFALL X.XX/HR.
- RAIN EVENT STARTED XX HRS. AGO
- SENSOR BATTERIES LOW
- DISPLAY BATTERIES LOW
- SENSOR SIGNAL LOST...CHECK BATTERIES AND PLACEMENT
- CAUTION- HEAT INDEX IS XXX
- CAUTION- WIND CHILL IS XXX
- CALIBRATION
# Troubleshooting

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<th>Problem</th>
<th>Possible Solution</th>
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| **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 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). |
| **No rainfall** | • 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.  
• Calibrate the rain gauge (see sensor manual). |
| **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. |
| **Display screen not working** | • Check that the power adapter is plugged into the display and an electrical outlet.  
• Reset the display by pressing and holding the CLEAR ALL/RESET button for 10 seconds, 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 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
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, press AND HOLD the “▲”, “SET”, and “▼” buttons simultaneously for at least 5 seconds.

2. To adjust the currently selected (flashing) item, press and release the “▲” or “▼” buttons to calibrate the data value higher or lower from the actual reading.

3. To save your adjustments, press and release the “SET” 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 “SET” button for at least 10 seconds. The display indicates the current pressure mode selected,”AUTO” or “MANUAL”.

After 10 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 SENSOR RANGE | 32°F to 122°F; 0°C to 50°C |
| DISPLAY’S BUILT-IN HUMIDITY SENSOR RANGE | 1% to 99% RH |
| WIND SPEED | 0 to 99 mph; 0 to 159 km/h |
| 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, 250mA adapter, 6 x AA 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; PC Connect CSV Data Logging: 12 minute intervals; PC Connect to Online Portal/App: 18 seconds |

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.

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.

12
Customer Support
AcuRite customer support is committed to providing you with best-in-class service. For assistance, please have the model number of this product available and contact us in any of the following ways:

(877) 221-1252

Visit us at www.AcuRite.com
► Installation Videos
► Instruction Manuals
► Replacement Parts
► Register your Product
► Support User Forum
► Submit Feedback & Ideas

IMPORTANT
PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

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

Limited 1-Year Warranty
AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products, AcuRite provides the benefits and services set forth herein. For purchases of Chaney products, Chaney provides the benefits and services set forth herein. We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

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

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

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

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

We further disclaim liability from personal injury relating to 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.
It’s More than Accurate, it’s AcuRite.

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

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