

Display for 5-in-1 Weather Sensor



Package Contents

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

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

IMPORTANT

PRODUCT MUST BE REGISTERED
TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

Register online to receive 1 year warranty protection

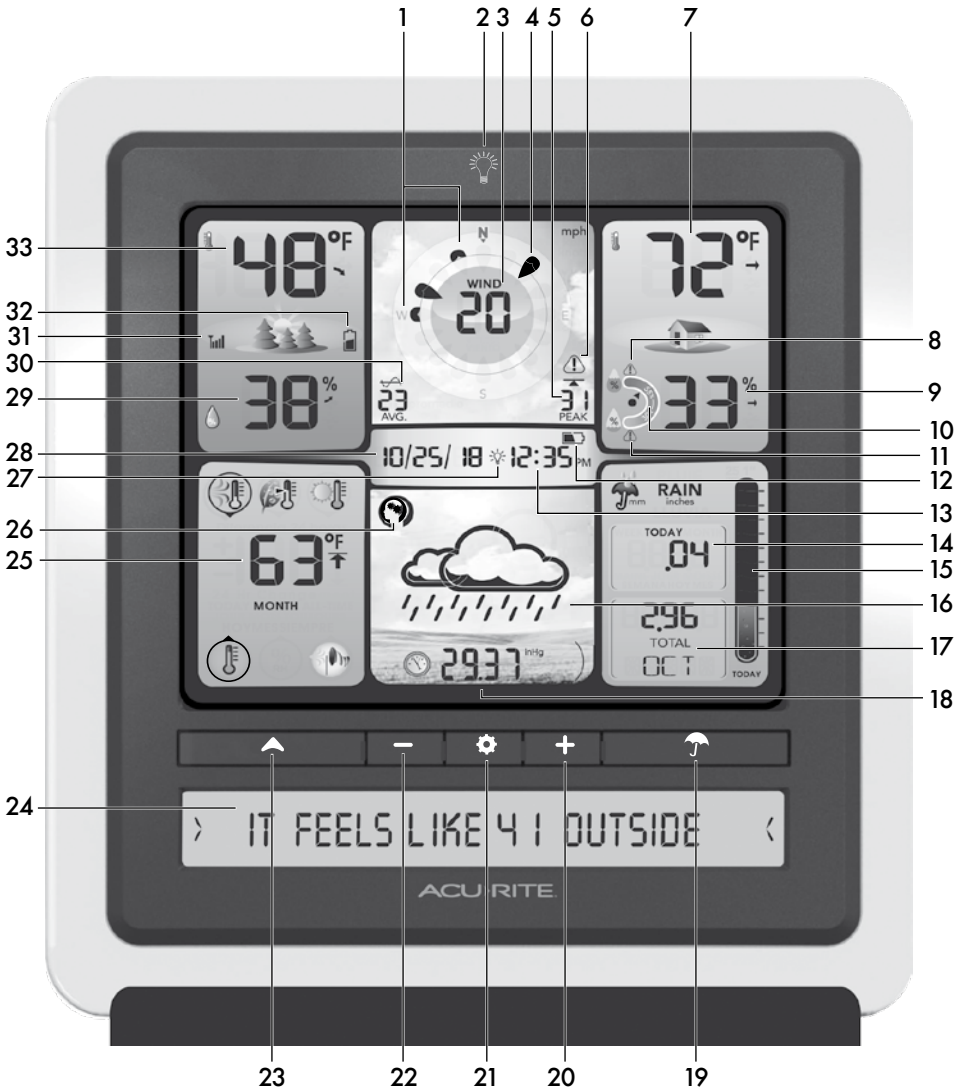
www.AcuRite.com








Questions? Contact Customer Support at
(844) 228-5465 or visit www.AcuRite.com.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

Features & Benefits

Display



- 1. Previous 2 Wind Directions**
- 2. Backlight Button**
For momentary backlight and dimmer settings.
- 3. Current Wind Speed**
- 4. Current Wind Direction**
- 5. Peak Wind Speed**
Highest speed from the last 60 minutes.
- 6. High Wind Speed Icon**
Indicates peak wind speed is greater than 50 MPH (81 KPH).
- 7. Current Indoor Temperature**
Arrow icon indicates direction temperature is trending.
- 8. High Indoor Humidity Icon**
Indicates indoor humidity level is greater than 75% RH.
- 9. Current Indoor Humidity**
Arrow icon indicates direction humidity is trending.
- 10. Humidity Level Indicator**
Indicates a high, low, or ideal indoor humidity comfort level.
- 11. Low Indoor Humidity Icon**
Indicates indoor humidity level is below 16% RH.
- 12. Display Low Battery Icon**
- 13. Clock**
- 14. Rainfall**
Displays rainfall total for TODAY, this WEEK, or this MONTH.
- 15. Today's Rain Indicator**
Illustrates rainfall collection up to 1 inch (25 mm).
- 16. 12 to 24 Hour Weather Forecast**
Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.
- 17. Rainfall History**
Displays historical rainfall totals (see page 10).
- 18. Barometric Pressure**
Arrow icon indicates direction pressure is trending.
- 19.  Button**
Changes the rainfall data being displayed (#17).
- 20.  Button**
For setup preferences and manually cycling through Weather Ticker messages.
- 21.  Button**
For setup preferences.
- 22.  Button**
For setup preferences and manually cycling through Weather Ticker messages.
- 23.  Button**
Changes the WEATHER SELECT category (#25) being displayed.
- 24. Weather Ticker™**
Streams real-time data (see page 11).
- 25. WEATHER SELECT**
Displays high/low records and seasonal data (see page 9).
- 26.  Icon**
Disappears after weather forecast self-calibration is complete.
- 27.  Icon**
Indicates display is in auto-dimming brightness mode (see page 6).
- 28. Date**
- 29. Current Outdoor Humidity**
Arrow icon indicates direction humidity is trending.
- 30. Average Wind Speed**
Taken from all wind speed readings over the past 2 minutes.
- 31. 5-in-1 Sensor Signal Strength**
- 32. Sensor Low Battery Icon**
- 33. Current Outdoor Temperature**
Arrow icon indicates direction temperature is trending.

Back of Display



BACK OF DISPLAY

- 1. Plug-in for Power Adapter**
- 2. Plug-in for USB Cable**
- 3. Integrated Keyhole**
For easy wall mounting.
- 4. DEVICE ID**
12 digit unique ID required for online connectivity functions.
- 5. Backup Battery Compartment**
- 6. A-B-C Switch**
ID code that must match 5-in-1 sensor's A-B-C switch to ensure units synchronize.
- 7. CLEAR RECORD / RESET Button**
Press to clear data recorded since 12:00 am. Press and HOLD for full reset to factory defaults.
- 8. Power Adapter**
- 9. USB Cable for PC Connection**
- 10. Battery Compartment Cover**
(not shown)

Display Setup

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 Electric Outlet

3 Write Down the DEVICE ID

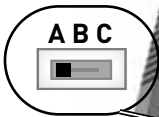
12 digit unique ID needed for online connectivity functions.

24 C8 6E

4 Install or Replace Backup Batteries (optional)

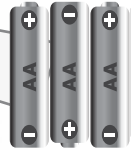
Insert 3 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.

1 A-B-C Switch set to match sensor

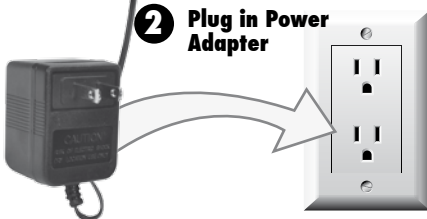


3 Write Down DEVICE ID 12 digit number

4 Install Backup Batteries 3 AA Batteries (optional)



2 Plug in Power Adapter



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 “⚙️” 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 again to adjust the next preference. The preference set order is as follows:

LANGUAGE (English, French, Spanish)
TIME ZONE (EST, AST, NST, HAT, AKT, PST, MST, CST)
AUTO DST CHANGE (YES, NO)*
WEATHER TICKER SPEED (SLOW, MEDIUM, FAST)
CLOCK HOUR
CLOCK MINUTE
CALENDAR MONTH
CALENDAR DATE
CALENDAR YEAR
TEMPERATURE UNITS (°F or °C)
WIND SPEED UNITS (MPH, KPH, Knots)
RAINFALL UNITS (inches or mm)
PRESSURE UNITS (inHg or hPa)

*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.

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

Display Backlight Settings

This weather station’s color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (15%) 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 15%, press a 3rd time to enter “AUTO DIM” mode. “💡” icon appears to the left of the time to indicate that auto-dim mode is ON.

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

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of 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 feet (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).

PC Connect

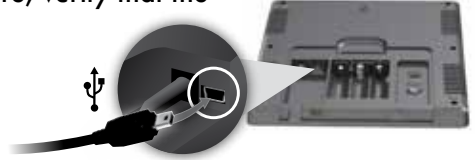
PC Connect works with PCs to provide access to your Weather Center data in the following ways:

- **Data File:** The display logs (or stores) data so that you can download it to a CSV (comma separated values) data file on your PC.
- **Web Browser or Smartphone:** Monitor sensor data remotely using AcuRite's free AcuRite online software, or from a mobile device using the free AcuRite app, available from the Apple App Store or Google Play Store.
- **Weather Underground:** This weather station is compatible for streaming data to the Weather Underground Personal Weather Station Network. For more information, navigate to: www.acurite.com > Support > Downloads

Download the Software

The PC Connect software is available online as a free download. A manual (PDF) is included with the software download.

Before setting up the PC Connect software, verify that the display is ON with the power adapter plugged in. Next, connect the mini-USB (small end of the cable) into the USB port on the display, located inside the battery compartment.



- 1** Download PC Connect software to your computer by visiting: www.acurite.com > Support > Downloads
- 2** Open the file that was downloaded in step 1 and follow the on-screen instructions to install the software.
- 3** After PC Connect is installed on the computer, the initial configuration will begin automatically. Select where to save weather data downloaded from the display. By default, this will create a folder on the computer.
- 4** When prompted by the software to plug in the display, connect the USB (larger end of the cable) into a USB port on the computer.

PC Connect is installed and ready for use.

Follow the instructions within the PC Connect app to complete setup and begin using the software.



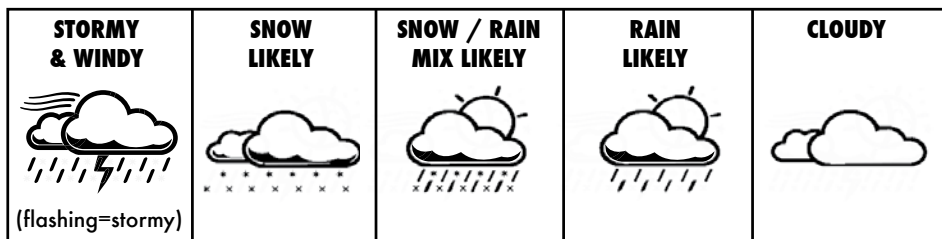
Using the Professional Weather Center

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 (☼) 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, 24-hour change in outdoor temperature and humidity, today, month and all-time high and low records for outdoor temperature, outdoor humidity and peak wind speed. To change the "Weather Select" category shown, press the "▲" 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

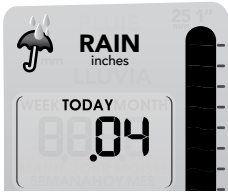
This weather station features enhanced tracking of historical rainfall data. Rain accumulation data is displayed for the current day, week, or month (most recent rainfall total). The rain indicator illustrates today's rain collection up to 1 inch (25 mm).

Press the "☂" button to review historical rainfall records.

Records are shown in the following order:

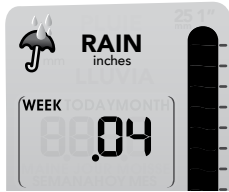
- CURRENT YEAR TOTAL (default)
- PREVIOUS DAILY TOTALS (up to 3 days prior)
- MONTHLY TOTALS WITH RAIN FOR CURRENT YEAR
- YEARLY TOTALS FOR PREVIOUS YEARS (up to 4 years)
- ALL-TIME TOTAL

Rainfall Data



TODAY

Displays rainfall recorded TODAY since 12:00am, if applicable.



WEEK

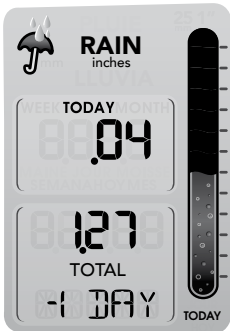
If there hasn't been any rainfall today, the current week's rainfall (Sunday to Saturday) is displayed, if applicable.



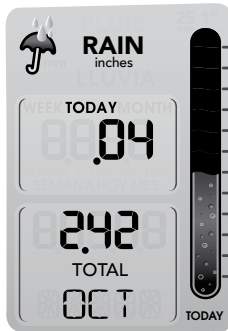
MONTH

If there hasn't been any rainfall this week, the current month's rainfall is displayed.

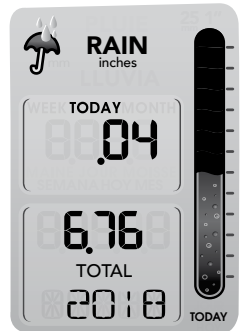
Rainfall History



TOTAL RAINFALL FOR PREVIOUS DAY



TOTAL RAINFALL FOR MONTH SHOWN



CURRENT YEAR TOTAL RAINFALL

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

WIND CHILL-XX

DEW POINT-XX

IT FEELS LIKE XX OUTSIDE

TODAY'S HIGH HUMIDITY...OUTDOOR XX / INDOOR XX

TODAY'S LOW HUMIDITY...OUTDOOR XX / INDOOR XX

TODAY'S HIGH TEMP...OUTDOOR XX / INDOOR XX

TODAY'S LOW TEMP...OUTDOOR XX / INDOOR XX

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

DATA LOGGER FULL...CONNECT TO PC TO TRANSFER

Troubleshooting

Problem	Possible Solution
<p>No outdoor sensor reception</p>  no bars	<ul style="list-style-type: none"> • Relocate the display and/or the 5-in-1 sensor. The units must be within 330 ft (100 m) of each other. • Make sure both units are placed at least 3 feet (90 cm) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc). • Use standard alkaline batteries (or lithium batteries in sensor when temperature is below -4°F/-20°C). Do not use heavy duty or rechargeable batteries. NOTE: It may take a few minutes for display and sensor to synchronize after batteries are replaced. • Synchronize the units: <ol style="list-style-type: none"> 1. Bring both the sensor and display indoors and remove power adapter/batteries from each. 2. Reinstall batteries in outdoor sensor. 3. Reinstall power adapter/batteries in display. 4. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.
<p>Outdoor temperature is flashing or showing dashes</p>	<p>Flashing of the outdoor temperature may be an indication of wireless interference.</p> <ul style="list-style-type: none"> • 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.
<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. • Has Learning Mode icon disappeared from the display? Learning Mode must complete before forecast and pressure will be accurate. • 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.

Troubleshooting

Problem	Possible Solution
Inaccurate temperature or humidity	<ul style="list-style-type: none">• Make sure both the display and 5-in-1 sensor are placed away from any heat sources or vents (see page 7).• Make sure both units are positioned away from moisture sources (see page 7).• Make sure 5-in-1 sensor is mounted at least 5 ft off of the ground.• Calibrate indoor and outdoor temperature and humidity (see page 15).
No rainfall	<ul style="list-style-type: none">• Check to ensure the rain gauge stabilizer (plastic tab) has been removed from the bottom of the sensor.• Clear debris, such as leaves, out of the rain collector funnel and debris screen.
Inaccurate wind readings	<ul style="list-style-type: none">• What is wind reading being compared to? Pro weather stations are typically mounted at 30 ft high or more. Make sure to compare data using a sensor positioned at the same mounting height.• Check location of the sensor. Ensure it's mounted a minimum of 5 ft in the air with no obstructions around it (within several feet).• Ensure wind cups are spinning freely. If they hesitate or stop try lubricating with graphite powder or spray lubricant.
Display screen not working	<ul style="list-style-type: none">• Check that the batteries are installed correctly. Batteries may need to be replaced.• Reset the display by pressing and holding the CLEAR RECORD / RESET button, located in the battery compartment of the display. Date and time will need to be entered after a reset.

Troubleshooting

Problem	Possible Solution
Cannot access data online or on the AcuRite mobile app	<ul style="list-style-type: none">• Verify under Status that data was received from the indoor display. The timestamp should update every 18-36 seconds.• Verify that you created an account or logged into an existing account at www.MyAcuRite.com or in the AcuRite app, and that you input the display's DEVICE ID as a part of the account setup.• Verify the PC that the display is connected to is always powered ON.• Verify the PC that the display is connected to is always connected to the internet.• Verify that the display's DEVICE ID is entered correctly in the PC Connect software on your PC.• Verify that "Sharing" is enabled in the PC Connect software on your PC.• Verify that the display's DEVICE ID is correct in your www.MyAcuRite.com and/or AcuRite mobile app account.• Follow on-screen troubleshooting steps in the PC Connect software.
No data received from indoor display	<ul style="list-style-type: none">• Verify that the USB cable is securely connected to the display AND to the PC.• Verify the display is powered ON.• Restart the PC Connect software.• Unplug the USB cable from the PC for 1 minute, then plug the cable back in again.• USB port may be malfunctioning, try using a different USB port.

If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or call (844) 228-5465 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 and 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 “+”, “⚙️”, 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 “⚙️” button to adjust the next preference. The “⚙️” icon will remain illuminated next to calibrated values.

The preference set order is as follows:

OUTDOOR TEMPERATURE

OUTDOOR HUMIDITY

INDOOR TEMPERATURE

INDOOR HUMIDITY

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

*To change from AUTO to MANUAL pressure mode and vice versa, press AND HOLD the “⚙️” button for 5-7 seconds. The display indicates the current pressure mode selected, “AUTO” or “MANUAL”. The “⚙️” icon will appear next to the barometric pressure to indicate that MANUAL mode has been activated. Press and HOLD the “⚙️” button for 5-7 seconds to return to AUTO mode.

After 5-10 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%
WIND SPEED	0 to 99 mph; 0 to 159 kph
WIND DIRECTION INDICATORS	16 points
RAINFALL	0.01 inches (0.25 mm) and up
WIRELESS RANGE	330ft / 100m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	5V, 250mA adapter 3 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
DISPLAY MEMORY	512 kilobytes (not expandable)
PC CONNECT SYSTEM REQUIREMENTS	Mac OS X 10.9 (Mavericks) or higher
	Windows 10 / 8.1 / 8 / 7; 1 GHz or faster processor; 1 GB (32-bit) or 2 GB (64-bit) of RAM; available USB port
	High speed internet is required for some advanced features of PC Connect, such as Weather Underground Rapid Fire 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.

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:



(844) 228-5465

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

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5-in-1 Weather Sensor

model 06004



Package Contents

1. 5-in-1 Sensor
2. Mounting Hardware
3. Sensor Mounting Bracket
4. Instruction Manual

IMPORTANT

PRODUCT MUST BE REGISTERED
TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

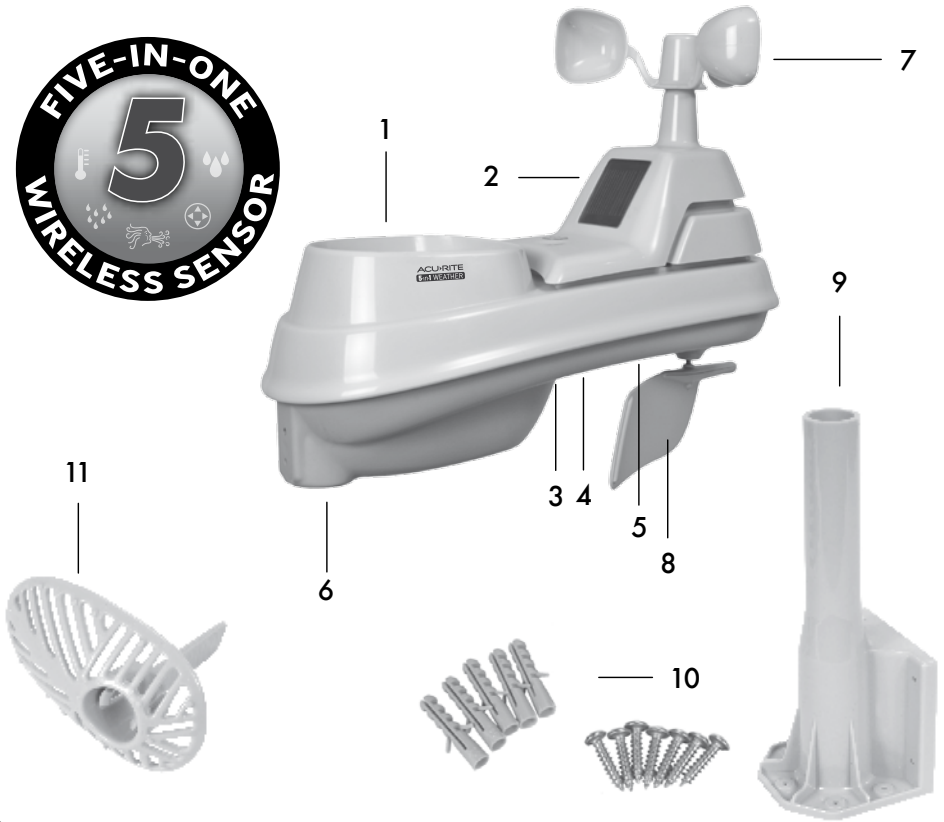
Register online to receive 1 year warranty protection

www.AcuRite.com

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

SAVE THIS MANUAL FOR FUTURE REFERENCE.

Features & Benefits



5-in-1 SENSOR

- 1. Rainfall Collector Funnel**
- 2. Solar Cell Panel**
Converts sunlight into power to run internal aspirating fan.
- Internal Aspirating Fan**
(not shown)
Draws ambient air into sensor to reduce solar radiation heating, resulting in more accurate temperature measurement.
- 3. A-B-C Switch**
ID code that must match display's A-B-C switch to ensure units synchronize.
- 4. Battery Compartment**

- 5. Temperature & Humidity Sensors**
(internal)
- 6. Mounting Point**
- 7. Wind Speed Anemometer**
- 8. Wind Direction Vane**
- 9. Mounting Bracket**
- 10. Mounting Hardware**
Includes 5 anchors & the following screws:

Qty	Diameter	Length
5	#4	3/4"
1	#4	1/2"
1	#6	1/2"

- 11. Debris Filter**
Pre-installed to prevent debris from entering the rain gauge.

5-in-1 Sensor Setup

1 Set the A-B-C Switch

Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B or C. You must select the same letter choice for both the sensor and the companion unit (not included) in order for the units to synchronize.

The 5-in-1 sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the 5-in-1 sensor for temperatures below -4°F / -20°C.

2 Install or Replace Batteries

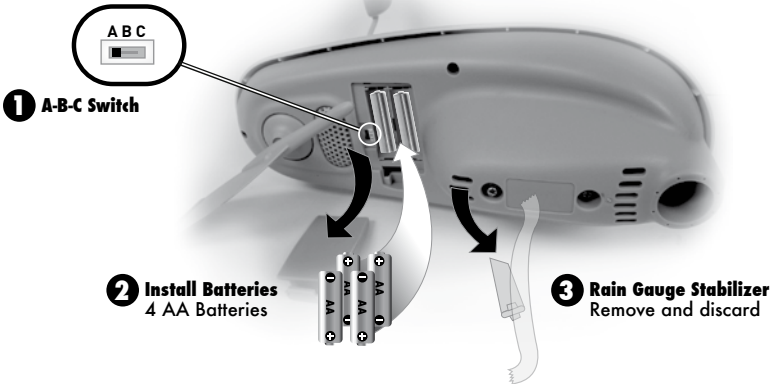
Batteries **MUST** be installed for this product to operate. AcuRite recommends high quality alkaline or lithium batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended.

3 Remove Rain Gauge Stabilizer

Locate and remove the rain gauge stabilizer (plastic tab) taped into the bottom of the sensor. The rain gauge will not function until this is removed.

LITHIUM BATTERIES -40°F (-40°C) (70°C) 158°F

ALKALINE BATTERIES 4°F (-20°C) (70°C) 158°F



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 that will not 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.

Placement for Maximum Accuracy

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



5-in-1 Sensor Placement

The 5-in-1 sensor is designed to remain outdoors all year long. Choose an open location with no obstructions above or around the sensor for the most accurate measurements.

Important Placement Guidelines

Sensor must be within 330 feet (100 m) of companion unit (not included).

MAXIMIZE WIRELESS RANGE

Place sensor away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.

LOCATE AWAY FROM HEAT SOURCES

Position sensor away from heaters, air conditioners, chimneys, exhaust vents, asphalt and concrete (surfaces that radiate heat).

LOCATE AWAY FROM HUMIDITY SOURCES

Avoid installing the sensor near pools, spas, or other bodies of water. Water sources may impact humidity accuracy.

LOCATE AWAY FROM SPRINKLER HEADS

DO NOT install the sensor where it will be sprayed by a sprinkler system. This may force water inside the sensor.

LOCATE AWAY FROM WIND & RAIN OBSTRUCTIONS

DO NOT mount the sensor with obstructions around it. Consider a location that is a wide open area, with few structures around to ensure accurate wind measurement.

Visit us online to view installation photos and video, or learn more about AcuRite technology:
www.AcuRite.com/5in1



View Video

5-in-1 Sensor Installation Guidelines

INSTALLATION HEIGHT Mount the sensor at least 5 feet (1.5 meters) off the ground in an open area. Higher is better for wind measurement- the National Weather Service recommends 33 feet (10 meters) high!

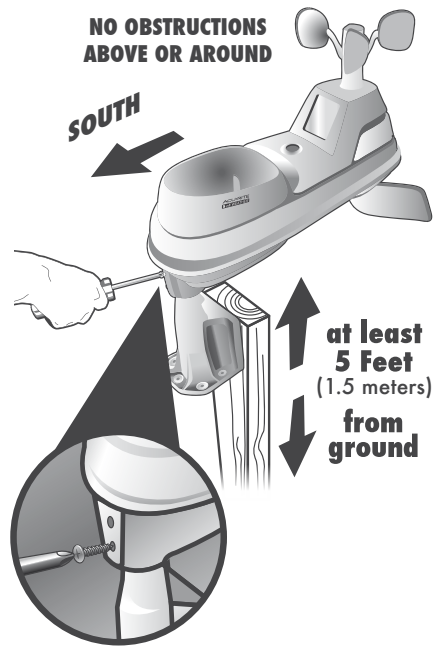
MOUNTING OPTIONS The included mounting bracket is designed to screw directly onto wooden posts or surfaces that are 2" x 4" or larger. The sensor can also be mounted directly to 3/4" steel pipe (available at hardware stores and home centers).

LEVEL INSTALLATION Use the bubble level on the top of the sensor to ensure level installation for accurate wind and rain measurement.

SOLAR CELL INSTALLATION Install the sensor with the **solar cell facing SOUTH**. This ensures the cell receives as much sun as possible and orients wind direction.

5-in-1 Sensor Installation

1. Fasten mounting base (included) to a post or pole (not included) using the 4 longer screws included in the hardware bag.
2. Insert the mounting base into the hole on the bottom of the sensor.
3. Make sure the arrows on the top of the sensor are pointed in the proper direction and the bubble level is centered. The solar cell should be facing south to properly orient the wind direction.
4. Fasten the sensor into the mounting base using the 2 shorter screws included in the hardware bag.



The 5-in-1 sensor is now ready to use.

Basic Setup is Complete

The 5-in-1 sensor will now synchronize with the companion unit. It may take a few minutes for synchronization to complete.

Calibrate the Rain Gauge

The rain gauge on the 5-in-1 sensor can be calibrated to improve accuracy.

Items Needed: 5-in-1 sensor, companion unit, plastic cup, pin, screw driver

1. First, ensure 5-in-1 sensor is perfectly level using built-in bubble level.
2. Use compatible companion unit or AcuRite software to monitor during calibration.
3. Make a pin hole in the bottom of a plastic cup. Hold the cup over the rain gauge and fill it with exactly 1 cup (8oz) of water, allowing the water to drip into the rain gauge. You should hear the internal buckets tip and see water drain through the rain gauge.
4. A few seconds after each bucket tip, the companion unit displays rainfall in approximately 0.01" or more increments.
5. The cup of water should take more than 20 minutes to empty; a quicker period will result in inaccurate calibration. Try to simulate a normal steady rainfall. When cup is empty of water, companion unit should register 1.06"

Tips

- There should be nearly an equal number of water drops (about 25 water drops) between bucket tips. If not, adjust the calibration screws on the bottom of the 5-in-1 sensor until an equal number of water drops are tipping the buckets.

Adjustment

If the rain gauge doesn't register close to 1.06", make an EQUAL adjustment to the two calibration screws on the bottom of the 5-in-1 sensor. Turning screws clockwise increases rainfall; counter clockwise decreases rainfall.

- To adjust the rainfall reading by 2% turn both screws 1/8 of a turn.
- To adjust the rainfall reading by 4% turn both screws 1/4 of a turn.
- To adjust the rainfall reading by 8% turn both screws 1/2 of a turn.

Watch the video at www.AcuRite.com/5in1

Specifications

TEMPERATURE RANGE	Outdoor: -40°F to 158°F; -40°C to 70°C
HUMIDITY RANGE	Outdoor: 1% to 99%
WIND SPEED	0 to 99 mph; 0 to 159 kph; 0 to 86 knots
WIND DIRECTION INDICATORS	16 points
RAINFALL	0.01 inches (0.25 mm) and up
WIRELESS RANGE	330 ft / 100 m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	4 x AA alkaline or lithium batteries
DATA REPORTING	Wind Speed: 18 second updates; Direction: 36 second updates Outdoor temperature & humidity: 36 second updates

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
- ▶ Replacement Parts
- ▶ Support User Forum
- ▶ Instruction Manuals
- ▶ Register your Product
- ▶ Submit Feedback & Ideas

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.

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.

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Stations



Temperature
& Humidity



Weather
Alert Radio



Kitchen
Thermometers
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