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#### For warranty claims, please contact:

Customer Care Department  
Chaney Instrument Co.  
965 Wells Street  
Lake Geneva, WI 53147  
www.AcuRite.com

This device complies with part 15 of the 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.

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.

# ACURITE®

DESIGNED TO WORK FOR YOU™



## Weather Station

model #02036WB, 02037W

## Instruction Manual

# Introduction

The AcuRite Weather Station uses patent-pending Precision Forecasting to provide your personal forecast of morning, noon & night (4-hour, 4 to 8-hour and 8 to 12-hour) weather conditions. Precision Forecasting combines North America's regional weather patterns with data measured by a sensor in your yard to generate the most accurate forecast for your exact location.

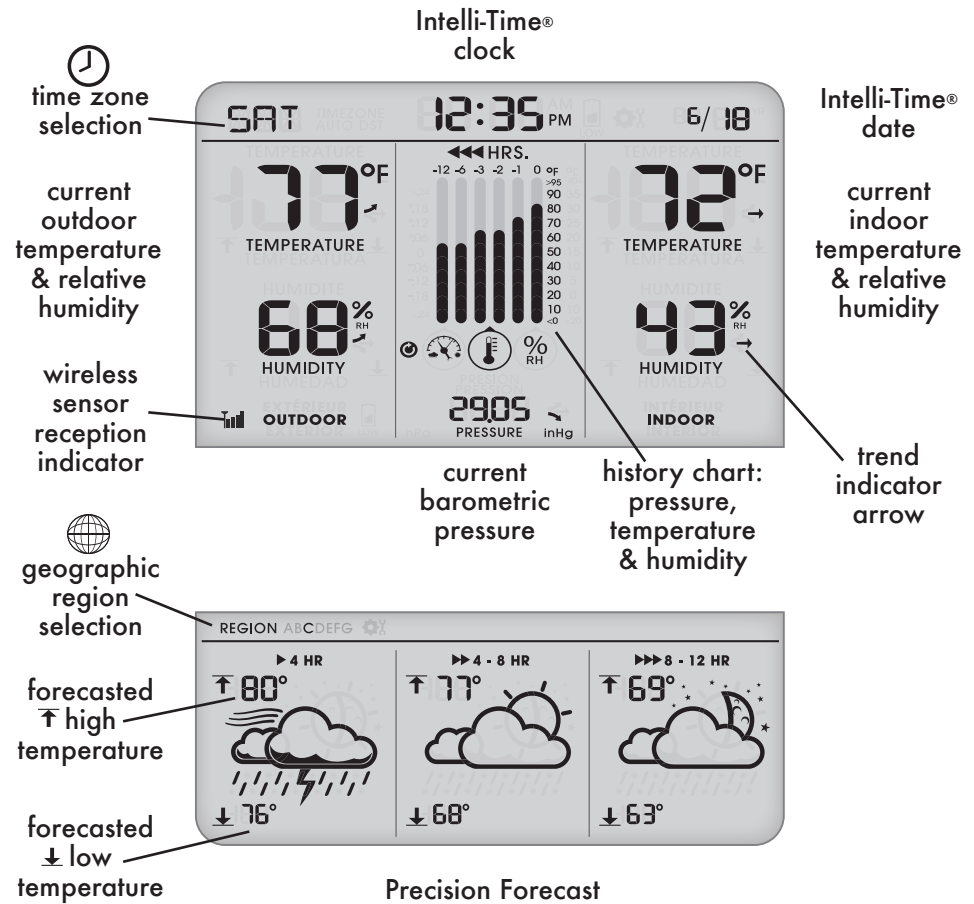
The indoor display console features a liquid crystal display (LCD) and sensors for measuring barometric pressure, indoor temperature and indoor humidity. The outdoor sensor is completely wireless and contains sensors for measuring outdoor temperature and humidity.

The bold, easy to read display console screen includes indoor and outdoor temperature and humidity, barometric pressure history, and a self-setting clock and calendar. Intelli-Time clock and calendar set themselves instantly to the correct time and date, and adjust for Daylight Saving Time.

The outdoor sensor features powerful wireless technology, low battery indicator light, and an integrated hanger for easy mounting.

It's more than accurate, it's AcuRite.

# Display Features



## Parts List model #02036WB, 02037W

1. Display Console
2. Outdoor Sensor
3. Instruction Manual

## Install Batteries - Outdoor Sensor

Extended periods of cold temperatures (below -4°F / -20°C) can cause alkaline batteries to function improperly. This causes the outdoor sensor to stop transmitting data. Use lithium batteries in low temperature conditions to ensure continuous operation of the outdoor sensor.

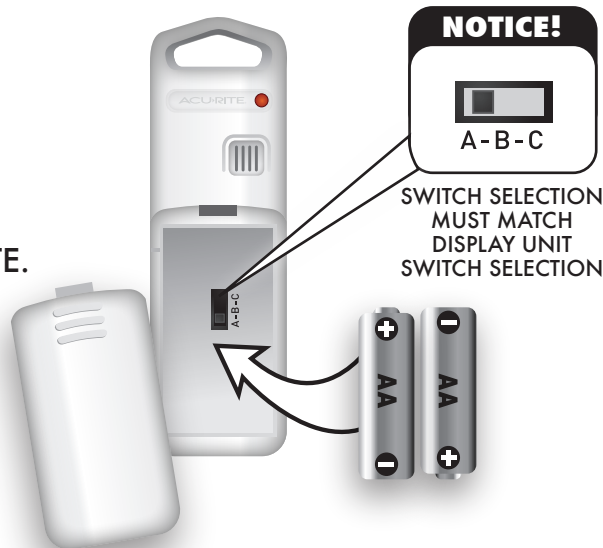
LITHIUM BATTERIES	-40 °F (-40°C)	(70°C)	158°F
ALKALINE BATTERIES	-4°F (-20°C)	(70°C)	158°F

## A/B/C Wireless Selection

To allow for more than one weather station and wireless sensor to be used within close proximity, the display console and outdoor sensor have a small switch labeled "A B C" within the battery compartments. This switch allows you to select one of 3 wireless modes. PLEASE NOTE: Both switches MUST be set in matching positions (either A, B, or C) for wireless communication.

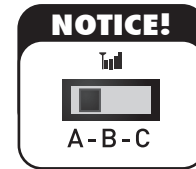
Remove the battery compartment cover. Install 2 fresh "AA" batteries, as shown.

**BATTERIES MUST BE INSTALLED FOR THE SENSOR TO OPERATE.**



## Install Batteries - Display Console

Remove the battery compartment cover. Install 3 fresh "AA" batteries as shown here.



SWITCH SELECTION MUST MATCH WIRELESS SENSOR SWITCH SELECTION



**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.



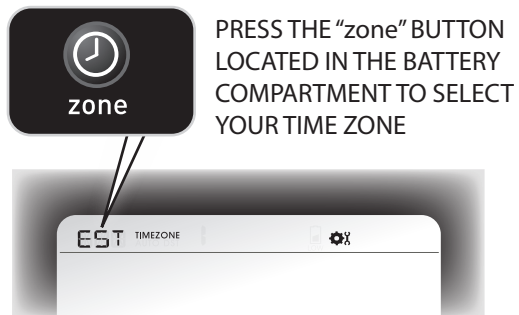
**WARNING: THIS PRODUCT CONTAINS A BUTTON-CELL BATTERY. IF SWALLOWED, IT COULD CAUSE SEVERE INJURY OR DEATH IN JUST 2 HOURS. SEEK MEDICAL ATTENTION IMMEDIATELY IF INGESTED.**



## Quick Setup - Display Console

### Intelli-Time® Clock & Calendar

Intelli-Time clock and calendar set themselves to the correct time and date, and adjust for Daylight Saving Time. All you need to do is select your Time Zone and Daylight Saving Time preferences. The clock and calendar will then update automatically.

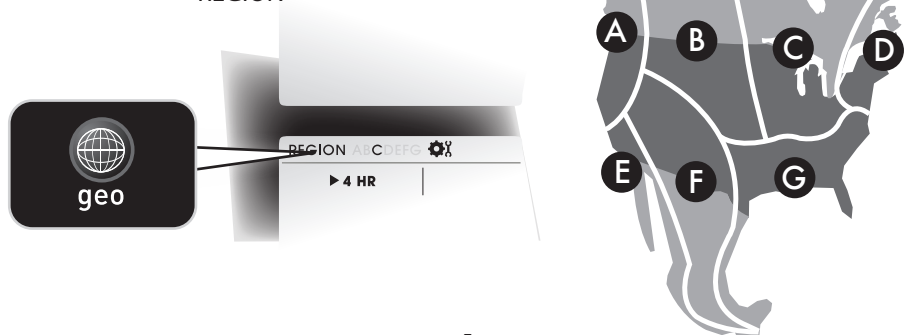


NOTE: IF FRENCH OR SPANISH LANGUAGE IS SELECTED (SEE DISPLAY CONSOLE: MANUAL SETUP TO CHANGE REFERENCE LANGUAGE), THE TIME ZONE SELECTION ON THE DISPLAY WILL BE G.M.T. +/- HOURS

## Set your Geographic Region

Next, you will need to select your general geographic region for the Precision Forecast to function properly:

PRESS THE "geo" BUTTON LOCATED IN THE BATTERY COMPARTMENT TO SELECT YOUR GEOGRAPHIC REGION



## Manual Setup - Display Console

Press the SET ( ) button to enter manual setup mode. The time zone will begin blinking.

To adjust the currently selected (flashing) preference item, press and release the "▲" or "▼" buttons.

To save your adjustments, press and release the " " button again to adjust the next preference. The preference set order is as follows:

- TIME ZONE (PST MST CST EST AST HAST AKST)
- AUTO DST (Automatically adjust time +/- on DST dates)
- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- UNITS: TEMPERATURE (°F or °C)
- UNITS: PRESSURE (inHg or hPa)
- REFERENCE LANGUAGE (English, Spanish or French)

You will automatically exit SET MODE if no entries are made for 30 seconds. Enter basic setup mode at any time by pressing and releasing the "SET" button.

## Weather Station Placement

Once setup is complete, choose a suitable location to place the indoor display console and outdoor sensor:



### Placement of Display Console

Place the display console 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. Console stands upright for tabletop use or is wall-mountable. Adjust display tilt to your preferred viewing angle.

### Placement of Sensor

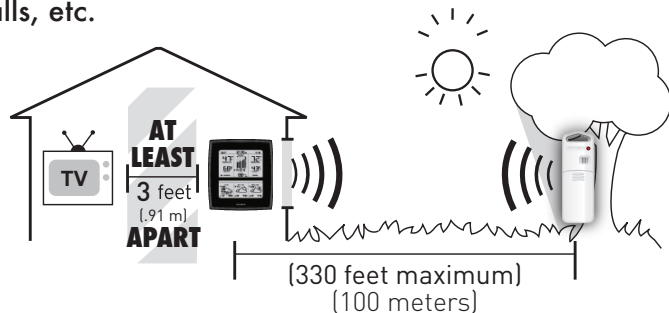
The sensor **MUST BE PLACED OUTDOORS** to observe outdoor temperatures. Sensor must be placed less than 330 ft (100 m) from the display console. Sensor is water resistant and is designed for general outdoor use, however, to extend its life place the sensor in an area protected from direct weather elements. To ensure accurate temperature measurement, place out of direct sunlight and away from heat sources.



There are 2 placement options for the sensor: Hang using the integrated hang holes, or use string (not included) to hang from a suitable location, like a well-covered tree branch.

## Prevent Wireless Interference

This weather station uses wireless radio frequency for data communication, which is susceptible to interference from electronics, large metallic items and thick walls. To prevent interference, place both the display console and the sensor at least 3 feet (.91 m) away from appliances (TV, microwave, radios, etc.), large metal surfaces, thick stone walls, etc.



## Precision Forecasting

### Initial Learning Mode

The forecast will not display predicted high or low temperatures for the first few hours after powering on. During this initial learning mode, the weather station will observe changes in your weather patterns and gather the data needed to generate your precision forecast.

### Forecast Display

Precision Forecasting provides the weather forecast for the next 4-hour, 4 to 8-hour, and 8 to 12-hour time periods. Precision Forecasting continuously analyzes your sensor data and updates the forecast icons and high/low temperatures accordingly.

The weather forecast icon will display one of 18 different weather conditions. The moon will show (as a simplified Moon Phase) instead of the sun when the forecast time period occurs overnight.

Below is an example of a few forecast icons:



Stormy/Windy



Cloudy



Clear

For the complete list of forecasting icon definitions, please visit:



<http://www.acurite.com/acurite-icons>

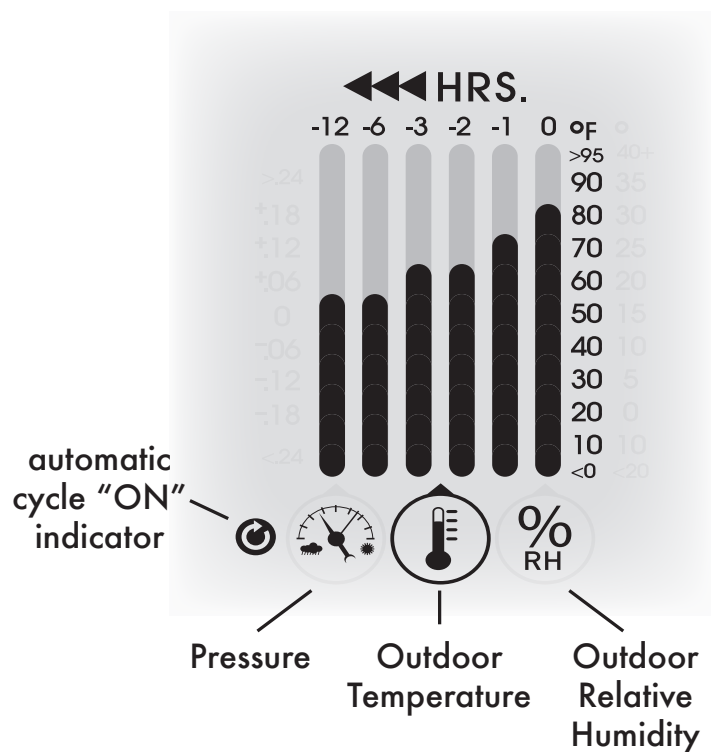


## Multi-Variable History Chart

The Multi-Variable History Chart displays the change in conditions over the previous 12 hours. Track pressure, outdoor temperature and outdoor relative humidity.

Press the history chart button on the back of the display console (  ) to cycle through and view the three history charts.



You can set the history chart to continuously cycle through all three history charts automatically. To turn automatic cycle mode ON or OFF, press AND HOLD the history chart button (  ) for 4 seconds. The cycle icon (  ) will appear on the display console when auto cycle mode is enabled.





## Daily High / Low Records

The high and low, or minimum and maximum, values for indoor and outdoor temperature and humidity are recorded each day. These records reset daily at midnight.

### Low or Minimum Records

To view the minimum records, press the "adjust down" button (  ) on the back of the display console. The minimum recorded values will display for 8 seconds (note the "↓" icon indicating minimum records are displayed). To manually reset the records, press and hold the "adjust down" (  ) button while viewing the records.

### High or Maximum Records

To view the maximum records, press the "adjust up" button (  ) on the back of the display console. The maximum recorded values will display for 8 seconds (note the "↑" icon indicating maximum records are displayed). To manually reset the records, press and hold the "adjust up" (  ) button while viewing the records.

## Momentary Backlight

The blue momentary backlight provides easy viewing at night or in dim lighting. To activate the backlight, press the button located on the top edge of the display console. The light will illuminate for about 10 seconds. Excessive use of the backlight will reduce battery life.

Momentary Backlight Button



## Barometric Pressure

Barometric pressure, also called atmospheric pressure, is defined as the pressure at any location on the Earth, caused by the weight of the column of air above it. At sea level, atmospheric pressure has an average value of one atmosphere, and gradually decreases as altitude increases.


The weight of the air mass, or atmosphere, that envelopes Earth exerts pressure on all points of the planet's surface. Meteorologists use a tool called a barometer to measure atmospheric pressure. At sea level the atmospheric pressure is approximately 1 kilogram per square centimeter (14.7 pounds per square inch), which will cause a column of mercury in a mercury barometer to rise 760 millimeters (30.4 in).

Subtle variations in atmospheric pressure greatly affect the weather. Low pressure generally brings rain. In areas of low air pressure, the air is less dense and relatively warm, which causes it to rise. The expanding and rising air naturally cools, and the water vapor in the air condenses, forming clouds and the drops that fall as rain. In high pressure areas, conversely, the air is dense and relatively cool, which causes it to sink. The water vapor in the sinking air does not condense, leaving the skies sunny and clear.

This weather station displays the current barometric pressure, as well as a pressure indicator arrow of the trend (rising, falling or steady), pictured below. The multi-variable history chart also tracks and display the changes in pressure for the last 12 hours (-12, -6, -3, -2, -1, 0). The chart allows you to monitor the rate of change over time. These features can assist you in forecasting changes in the weather.

29.05  
PRESSURE inHg



Problem	Possible Solution(s)
<p><b>Bad Wireless Sensor Reception</b></p> 	<p>Relocate the display console and/or the outdoor sensor. The units must be within 330 feet (100 meters) of each other. Make sure both units are placed at least 3 feet (.91 m) away from electronics that may interfere with the wireless communication (such as TV's, microwaves, computers, etc). NOTE: It may take up to 20 minutes for the display console to re-synchronize with the sensor when batteries are replaced. Use lithium batteries in sensor when temperature is below -4°F (-20°C). Make sure the A-B-C switch selection in the battery compartments of both the display unit and sensor match each other.</p>
<p><b>Display Console Screen Not Working</b></p>	<p>Batteries may need to be replaced.</p> <p>Check that batteries are correctly installed.</p> <p>Press the reset button located on the back of the display unit to reset the entire unit. Please note that all of the date and time information will need to be entered manually after a reset.</p>
<p><b>Precision Forecast displaying "-."</b> <b>for high/low</b></p>	<p>The Precision Forecast will not display predicted high or low temperatures for the first few hours after powering on or resetting. During this initial learning mode, the weather forecast will collect data to learn your weather patterns.</p>
<p><b>Precision Forecast is Inaccurate</b></p>	<p>If the forecast seems wildly inaccurate, make certain that your geographic region is selected properly. The geographic region selection can drastically affect the accuracy of the forecast. See "FORECAST CALIBRATION" to learn how you may fine tune and improve the accuracy of the forecasting feature.</p>

## Forecast Calibration Mode

This weather station's forecasting feature can be calibrated. If you feel that your personal forecast could be fine-tuned to be more accurate you can calibrate the forecast to be less or more "wet." Essentially, calibrating the forecast will either reduce or increase how much moisture is present within the forecast software algorithm.

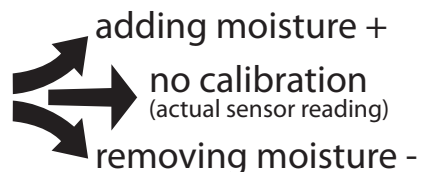
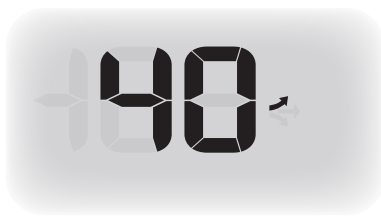
For example, if you feel the forecast is showing rain too often, you can remove 10% of the moisture from the forecast equation. To calibrate the forecast, you must enter into calibration mode.

To access the forecast calibration mode, press AND HOLD the "▼" and "▲" buttons together for at least 5 seconds. NOTE: After 20 seconds of inactivity, the display will save your adjustments and automatically exit calibration mode and return to normal operation.

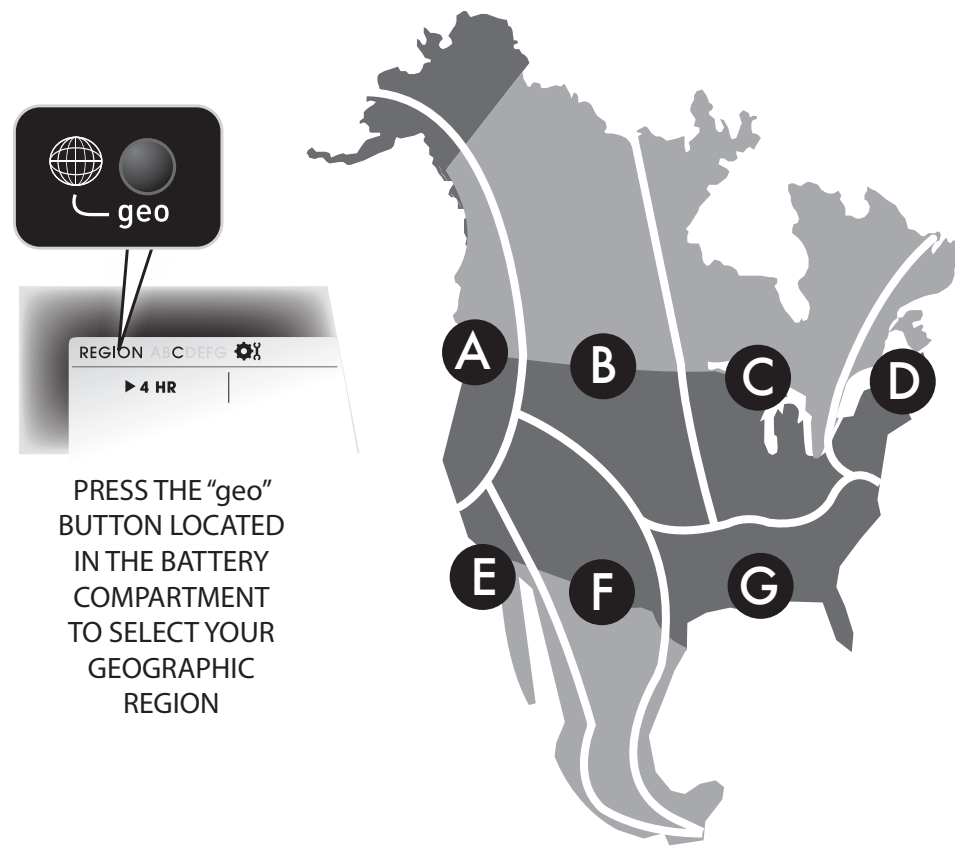
Press the "▼" button to remove moisture from the forecast. Press the "▲" button to add moisture to the forecast. Note that the forecast graphics will change accordingly. Calibrating the forecast may take some trial and error.

Press the "SET" button to confirm your calibration changes and exit.

Calibration changes will be lost if you reset the display unit or remove the batteries.



## Precision Forecast Geographic Regions



PRESS THE "geo" BUTTON LOCATED IN THE BATTERY COMPARTMENT TO SELECT YOUR GEOGRAPHIC REGION

TIP: if you are on the border of two geographic regions, choose the region that most fits your geographic region and weather type. You may want to try both regions (try for a minimum time frame of a few days for each region selection) to see which region selection provides the best forecast for you.

Learn more about Precision Forecasting at: <http://www.acurite.com/precision-forecasting>





## Product Facts

**Batteries:** 5 x "AA" (included)  
Lithium Batteries Recommended in  
Outdoor Sensor if temperatures are  
below -4°F

### Measurement Ranges

Outdoor Temperature : -40°F to 158°F

Outdoor Humidity : 1% to 99%

Indoor Temperature : 32°F to 122°F

Indoor Humidity: 1% to 99%

**Wireless Range :** 330 ft / 100 m MAX

Limited One Year Warranty

**MADE IN CHINA**



[www.AcuRite.com](http://www.AcuRite.com)



(877) 221-1252

# IMPORTANT NOTICE

YOUR PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

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