This device complies with part 15 of the FCC rules and RSS-210 of the IC 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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 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 intallation. 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 unauthorize modifications to this equipment. Such modifications could void the user authority to operate the equipment.

00615HDSBA1 INST 011110

ACU·RITE®
DESIGNED TO WORK FOR YOU™

Weather Center
model 00615A1

Instruction Manual

Contents

Parts List model #615HDSBA1
1. Display console with table top stand
2. Integrated multi-sensor
3. Integrated multi-sensor mounting bracket

Introduction

The Acurite® Weather Center with Integrated Multi-Sensor collects outside weather data and sends the data via wireless signal to the included Display Console via a low-power radio frequency. This weather center has been designed to be easy to install and use, without compromising any of the professional weather tracking features you want.

The Acurite® 3-in-1 Integrated Multi-Sensor is completely wireless and contains sensors to measure temperature, humidity and wind speed. The Integrated Multi-Sensor is battery powered and is ventillated. The ventillation will assist in drawing ambient air through to reduce the heating effects of solar radiation, resulting in a more accurate air temperature measurement.

The sleek display console houses a liquid crystal display (LCD) which will calculate and display all the weather data received from the Integrated Multi-Sensor outside. The Display Console has useful weather features such as high and low records, 12 hour history graph, and an area for displaying a multitude of extra weather information- the Weather Ticker™.

The Weather Ticker™ display area will display extra weather details that are relevant to the current and upcoming conditions. For example, when a new high temperature is recorded, the weather ticker will display "NEW HIGH TEMPERATURE RECORDED: 92°F."

Please read through this manual to learn more about the Acurite® Weather Center. Keep this maunual for future reference.

Integrated Multi-Sensor Features

Model: 3N1TXC

wind speed anemometer

temperature and humidity

housing release lever

battery access
(remove lower housing)

mounting point
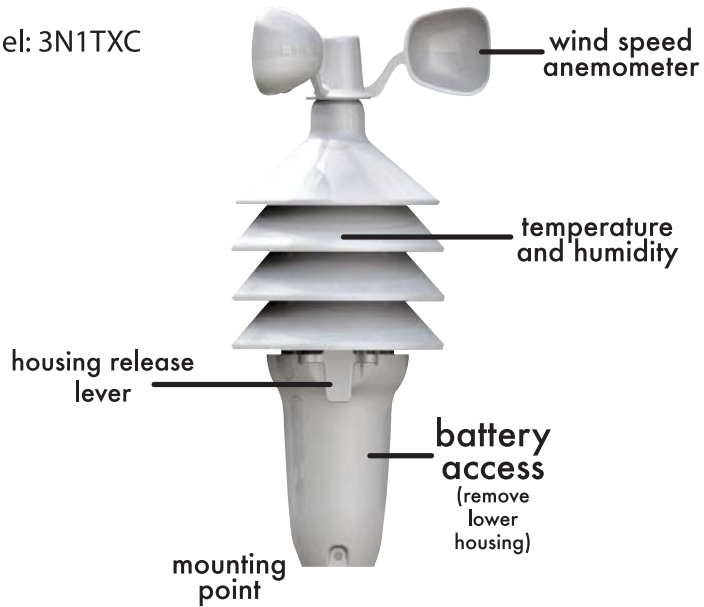
Display Console Features

Display Console Features

current date

current barometric pressure & trend

wind speed peak

wind speed average

future forecast display icon

indoor temperature & humidity display

current wind speed

weather select history graph

current outdoor temperature & trend

weather ticker display area

current outdoor humidity & trend

seasonal

weather ticker buttons

FORECAST: STORMS LIKELY

2

3
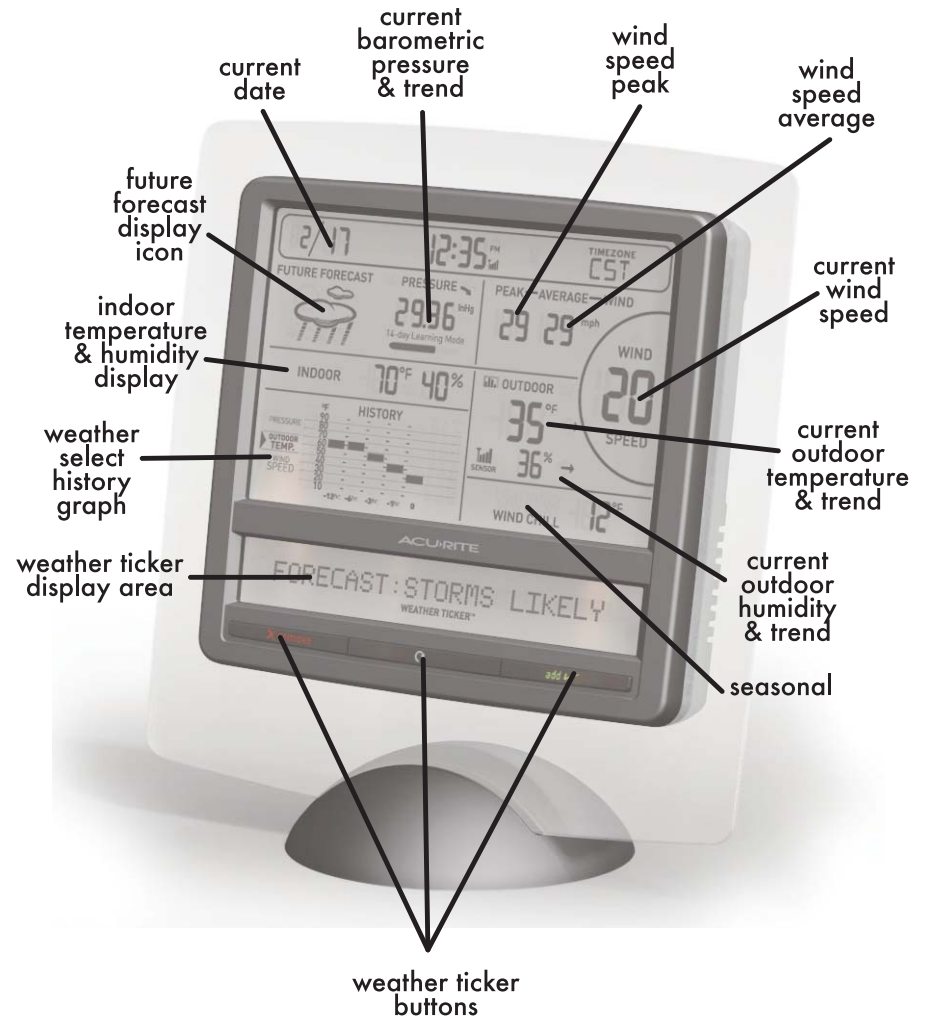
Installing Batteries - Integrated Sensor

A B C

SET "ABC" SWITCH TO MATCH DISPLAY CONSOLE "ABC" SWITCH SELECTION

Remove Battery Compartment Cover

Install 4 "AA" Alkaline* Batteries

housing release lever

*install lithium batteries for use in temperatures below -4°F

BATTERIES MUST BE INSTALLED FOR THE INTEGRATED SENSOR TO OPERATE

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

Installing Batteries - Display Console

A B C

SET "ABC" SWITCH TO MATCH SENSOR "ABC" SWITCH SELECTION

REMOVE BATTERY COMPARTMENT COVER

INSTALL 3 " AA" BATTERIES
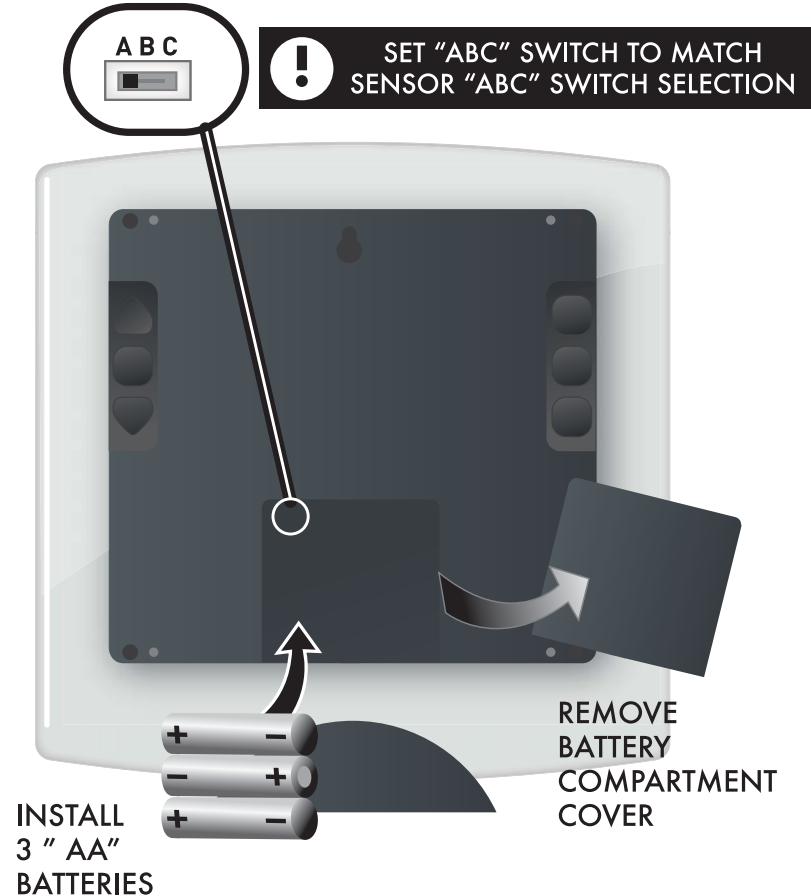
Remove the battery compartment cover on the back of the display console. Install 3 "AA" size alkaline batteries into the display console.

IMPORTANT: set the time and date as soon as possible, weather history data is driven by the time and date and will record incorrect time and date information if the time and date are not set correctly.

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 battteries from equipment which is not to be used for an extended perid 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.

About the Atomic Clock

A clock is considered atomic if it has an accuracy of one second in a million years. Consumer clocks are considered atomic if they attain this accuracy by receiving a signal from an atomic clock. In North America, the National Institute of Standards and Technologies operates an atomic clock in Colorado which transmits the time codes via the radio station WWVB. The Acurite clock you have purchased includes a built-in receiver which picks up the signal from the WWVB station. For the best possible reception, if possible, place the display unit with the back side facing Colorado. NOTE: Due to solar radiation in the atmosphere, the atomic clock signal is weaker during the day. Most synchronization with the WWVB atomic clock signal happens at night when there is less interference.

PRODUCT REGISTRATION

To receive product updates and information,
Log on to
www.chaneyinstrument.com

Setting the Time & Date

After powering on the display console, you must set your local time and date. It is important to do this as soon as possible, as the history functions built into the weather ticker will utilize the clock and calendar to time stamp records and data of interest.

It is recommended that the time and date be manually set initially to ensure that they are accurate until the atomic clock signal is captured.

To enter into SET MODE, press and hold the "SET" button for 3 seconds.

Use the "-" and "+" buttons to adjust the selected preference, press the "SET" button again to confirm the adjustment and move on to the next preference.

The main unit will automatically exit out of SET MODE after a 10 second period of inactivity.

SET MODE in this order:
1. Time zone (Pacific, Mountain, Central, Eastern)
2. Daylight Saving Time (DST on or off)
3. Time (hour first, then minutes)
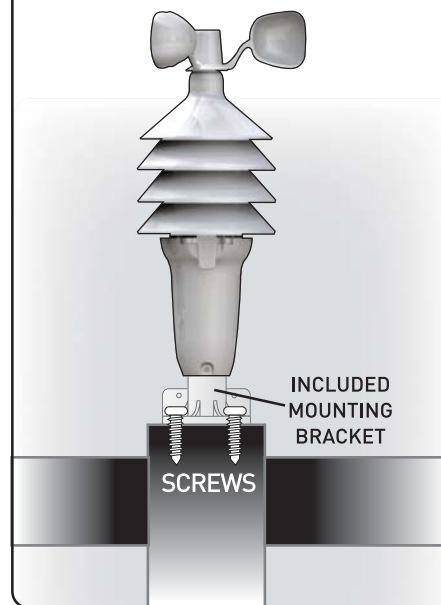4. Year
5. Month
6. Date

Scale Setup
You may choose to display readings in U.S. or Metric scales (example °F or °C). To change the scale preferences, press the "SCALE" button located on the back of the dispay console.
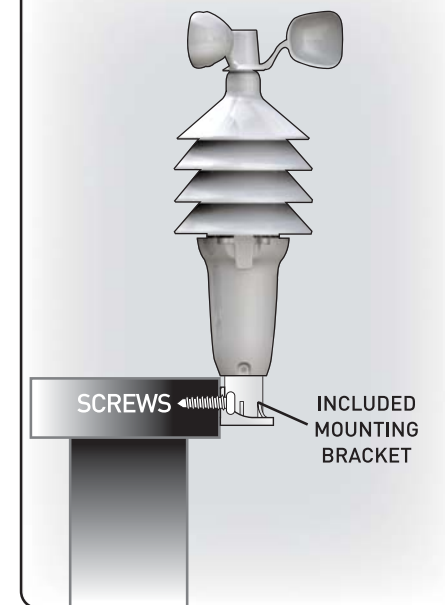
Installing the Wireless Multi-Sensor

After installing batteries into the Wireless Multi-sensor, you must choose a location to install the sensor. To ensure that your weather center performs at its best, follow these guidelines to choose a mounting location for the wireless multi-sensor:

- **INSTALL AWAY FROM HEAT & HUMIDITY SOURCES:**
  DO NOT Place the wireless multi-sensor near localized heat sources like heaters, air conditioners, chimneys and exhaust vents. Install the wireless multi-sensor away from asphalt or concrete as these surfaces radiate heat from the sun. Also avoid installing the sensor near pools, spas, or other bodies of water as these water sources may affect the accuracy of the humidity.

- **INSTALL AWAY FROM SPRINKLER HEADS:**
  DO NOT install the wireless multi-sensor where it will be directly sprayed by a sprinkler system, this may force water into the housing.

- **WIND OBSTRUCTIONS:**
  DO consider a mounting location that has very little structures around the sensor, to ensure proper wind speed measurements.

- **INSTALLATION HEIGHT:**
  DO Mount the wireless multi-sensor at least 5 feet off the ground (higher is better for accurate wind measurements) in an open area NO FURTHER than 300 feet (100 meters) from the display console. A typical installation would involve mounting the bracket to a secured length of 2x4 or 4x4 wood (not included).

- **LEVEL INSTALLATION:**
  DO Install the wireless multi-sensor as level as possible to ensure accurate wind measurements. Use a bubble level (not included) to help ensure a level installation.

"FENCE POST" OR SIMILAR MOUNTING

INCLUDED MOUNTING BRACKET

SCREWS

"RAILING" OR SIMILAR MOUNTING

SCREWS

INCLUDED MOUNTING BRACKET

"POLE" OR SIMILAR MOUNTING

INCLUDED MOUNTING BRACKET NOT USED

(POLE NOT INCLUDED)

Mount the sensor onto a 3/4" schedule 40 PVC (25.8 mm O.D.) pole (not included). PVC plastic pipe is recommended over a metallic pipe due to lower risk of lightening strikes.

Insert the pole completely into the bottom of the wireless sensor. Use the included screw to securely mount the sensor so it will not fall or slide off of the pole in high winds.

Use caution when installing sensor or erecting the pole. Do not install during electrical storms. Do not place pole or sensor near electrical transmission lines or electrical equipment.

Basic Functions

The Professional Wireless Weather Center was designed to give you the most often used information at a glance. The following is an overview of basic functions for everyday use.

### WIND CHILL, DEW POINT, HEAT INDEX
An area of the display is dedicated to showing either wind chill, dew point, or heat index when they are relevant. For example, the display will not show heat index when the outdoor temperature is below 32°F, as wind chill is most relevant in those low temperatures.

WIRELESS SIGNAL RECEPTION ICON:
The display console features a "SENSOR" signal reception icon to the left of the clock display area. If there are a low number of "bars" present, you may experience no temperature display ("–") or inaccuracy. Occasionally, due to intermittent physical obstructions (such as vehicle traffic, etc.) or other environmental interference, the signal may be lost. If the sensor batteries are low the signal will be lost as well. After a signal loss- the display console will automatically begin to search for the wireless multi-sensor and attempt to re-acquire the wireless signal. In the event that the signal is lost completely and cannot be re-acquired, the weather ticker will display "**SENSOR SIGNAL LOST- CHECK BATTERIES AND PLACEMENT**".

In the case that the sensor signal is lost completely, you will need to relocate the display console or the wireless multi-sensor.

signal loss (flashing) signal weak signal OK signal strong
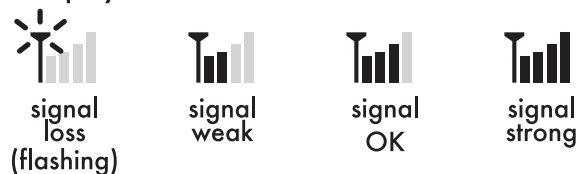
Wind Speed

The display console features WIND SPEED PEAK, AVERAGE, CURRENT WIND SPEED. All of the wind data points are displayed in the right portion of the display.
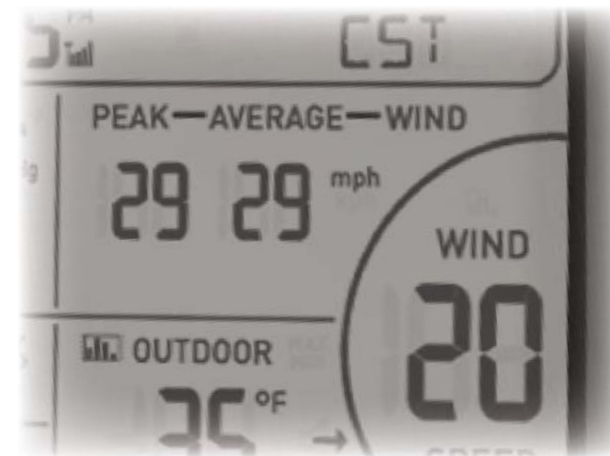
WIND SPEED PEAK:
The WIND SPEED PEAK will display the highest wind speed recorded in the previous 60 minutes.

WIND SPEED AVERAGE:
The WIND SPEED AVERAGE will display the average of all the wind speed numbers recorded in the previous 2 minutes.

CURRENT WIND SPEED:
The CURRENT wind speed will display the currently recorded wind speed and is updated every 18 seconds.

Temperature & Humidity

The display console features OUTDOOR TEMPERATURE & HUMIDITY as well as INDOOR TEMPERATURE & HUMIDITY.

OUTDOOR TEMPERATURE:
The OUTDOOR TEMPERATURE sensor is located within the wireless multi-sensor.

OUTDOOR HUMIDITY:
The OUTDOOR HUMIDITY sensor is located within the wireless multi-sensor.

TREND INDICATORS:
The OUTDOOR TEMPERATURE AND HUMIDITY displays' both feature a trend arrow indicator. One of the three arrow icons will illuminate- indicating if the temperature or humidity is RISING, STEADY, or FALLING.

INDOOR TEMPERATURE & HUMIDITY:
The INDOOR sensors are located within the display console, which is ventilated for accuracy.
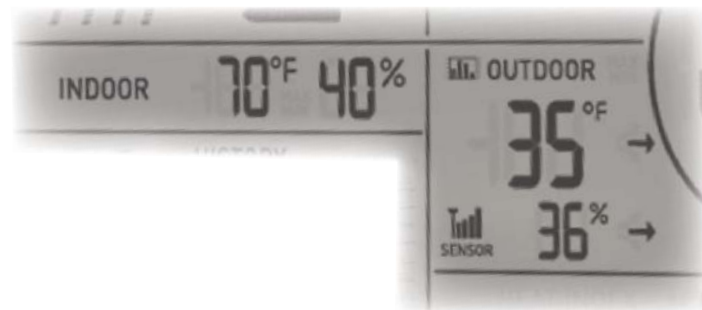
Weather Forecast

FORECAST: 14 day learning mode
This weather station has a patented "fourteen day learning mode" calibration process. During this learning mode the weather station will make altitude calculations that may affect the accuracy of the forecast. Once the 14 day learning mode process is complete, the learning mode icon will disappear and the weather forecast should be ready for superior operation.

learning mode progress indicator

14 DAY LEARNING MODE	14 DAY LEARNING MODE	14 DAY LEARNING MODE
...after 3 days	...half-way completed	...one day to go

FORECAST: future forecast icon
The display console features a weather forecast icon which gives you the predicted weather forecast for the next 12 to 24 hours based on an advanced algorithm that observes the changes in barometric pressure and temperature. The FORECAST icon will then predict the future (next 12 to 24 hours) weather forecast. This weather station will provide the most accurate forecast that a single station weather instrument can provide.

EXAMPLE OF WEATHER FORECAST DISPLAY ICONS	RAIN LIKELY (flashing=stormy)	LIGHT RAIN LIKELY	PARTLY CLOUDY	CLEARING
RAIN/SNOW MIX LIKELY (flashing=stormy)	SNOW LIKELY	LIGHT SNOW LIKELY	CLOUDY	MOSTLY CLOUDY

Atmospheric Pressure

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. Also called barometric pressure.

The weight of the air mass, or atmosphere, that envelopes Earth exerts pressure on all points of the planet's surface. Meteorologists use barometers to measure this atmospheric pressure (also called barometric 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 inches). 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.

PRESSURE:
The display console features a pressure read-out, just to the right of the forecast icon. The pressure readout area will also indicate if the pressure is FALLING, STEADY, or RISING.

Weather Select History Graph

The Weather Select History Graph will chart and display the previous 12 hours of data for the barometric pressure, outdoor temperature, and wind speed (hourly average reading). To change the selected category, press the "HISTORY" button located on the back of the display console.
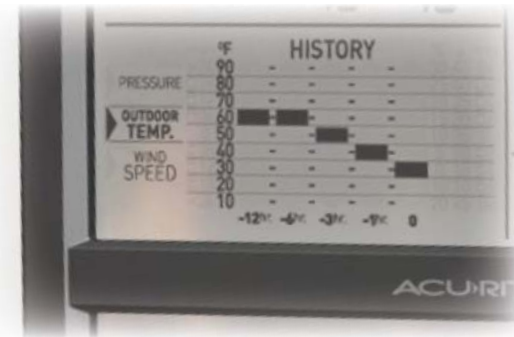
MIN/MAX Memory

This wireless forecaster features a MIN/MAX memory feature which records the MINIMUM and MAXIMUM outdoor temperature and indoor temperature/ humidity readings.

To view the MINIMUM outdoor temperature and indoor temperature/humidity reading, press and release the " - " button. Note the "MIN" icon on the display. To clear the MIN recorded values, press and hold the " - " button while in the MIN view mode. Dashes will display in the display to confirm you have cleared the MIN values for outdoor temperature and indoor temperature/humidity.

To view the MAXIMUM recorded outdoor temperature and indoor temperature/ humidity reading, press and release the " + " button. Note the "MAX" icon on the display. To clear the MAX recorded values, press and hold the " + " button while in the MAX view mode. Dashes will display to confirm you have cleared the MAX values for outdoor temperature and indoor temperature/humidity.

Weather Ticker™

The WEATHER TICKER™ is a scrolling text area at the bottom of the main console display. This area will automatically display an array of relevant messages, like extra weather details and records.

AUTOMATIC DEFAULT WEATHER TICKER DISPLAY:
There are default WEATHER TICKER™ messages that will display on an automatic cycle every day, such as MOON PHASE and FORECAST, as well as others. Below is an overview of the daily default WEATHER TICKER™ messages.

- FORECAST= a text readout of the 12-24 hour future forecast
- MOON PHASE= the current moon phase
- INDOOR COMFORT= dry, OK or humid
- IT FEELS LIKE __ OUTSIDE= this is a calculation based on temperature, humidity and wind speed which will tell you how the temperature actually feels like
- OUTDOOR TEMP THIS WEEK HIGH __= highest temperature recorded this calendar week.
- OUTDOOR TEMP THIS WEEK LOW __= lowest temperature recorded this calendar week.
- OUTDOOR TEMP THIS MONTH HIGH __= highest temperature recorded this calendar month.
- OUTDOOR TEMP THIS MONTH LOW __= lowest temperature recorded this calendar month.

You may also MANUALLY cycle through all the available weather ticker messages by pressing the "↻" button at any time.
These messages can be removed or added back into the automatic weather ticker display whenever you wish. To learn how to remove or add messages to the WEATHER TICKER™ , see "CUSTOMIZING THE WEATHER TICKER™ "

FORECAST:STORMS LIKELY

WEATHER TICKER™

✕ remove   add ↙

↻ CYCLE button
manually cycles
through all currently
available weather messages

Weather Ticker™ Extra Messages

EXTRA WEATHER TICKER MESSAGES:
In addition to the automatic general daily messages, there are extra automatic messages which provide additional interesting details about the current weather conditions. Below is an overview of the extra WEATHER TICKER™ messages.

- NEW HIGH TEMPERATURE RECORD __= will display when there is a new HIGH temperature record recorded (outdoor)

- NEW LOW TEMPERATURE RECORD __= will display when there is a new LOW temperature record recorded (outdoor)

- NEW WIND SPEED RECORD TODAY__= will display when a new high wind speed record is recorded

The WEATHER TICKER™ will also display diagnostic messages as well, such as "SENSOR BATTERIES LOW" and "SENSOR SIGNAL LOST."

Customizing the Weather Ticker™

The WEATHER TICKER™ allows for a certain amount of customizing. This customizing feature allows you to be in control; you may choose which general weather messages will be displayed on the WEATHER TICKER™ display.

To take a quick look of what messages are included or have been removed from the automatic WEATHER TICKER™ cycle, press the "↻" button to go through each available message manually. The area to the left of each message will display the "X" if the message has been removed from the automatic WEATHER TICKER™ cycle, and a "check mark" if it is included in the automatic WEATHER TICKER™.

While manually cycling through the available WEATHER TICKER™ messages using the "↻" button, you may then press the "remove" button to remove the currently selected message from the automatic message cycle, or press the "add" button to add/include the message in the automatic cycle.

Please note that you MUST be manually (using the "↻" button) cycling through the messages to mark them to be removed OR added, pressing the "remove" or "add" button when in normal automatic cycle mode will not remove OR add messages.

```
FORECAST:STORMS LIKELY
```
WEATHER TICKER™

X remove

(B)

EXAMPLE:
press "REMOVE" to
remove FORECAST
from automatic
ticker message cycle

(A)

CYCLE button
manually cycles
through all
standard
messages

add

(B)

EXAMPLE:
press "ADD" to
add/include FORECAST
back into automatic
cycle when viewing
manually

DISPLAY CONSOLE MAINTENANCE:
Clean with a soft damp cloth, do not use caustic cleaners or abrasives as these will damage the finish on the display console. Keep away from dust and dirt and moisture, dust ventilation ports regularly with a gentle puff of air, this will keep the indoor temperature and humidity accurate.

INTEGRATED WIRELESS SENSOR MAINTENANCE:
Clean the housing with a damp cloth, do not use abrasive cleaners or any materials that will mar the polished surfaces, this may result in decreased performance and reliability.

Remove any foreign matter on the outside of the housing to allow for free movement of wind vane and anemometer.

INSECTS: in most cases, insects will not pose a problem. However, in some instances, insects may cause repeated obstructions to weather measurement by nesting or building homes in or on the integrated wireless sensor. In these cases, it may help to spray the outside of the housing with a commercially available home insect guard/repellent product (not included) to limit the problem. Please consult the insect repellent manufacturers instructions and safety information before using.

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.

Problem	Possible Solution
Bad Wireless Sensor Reception 📶 no bars	Relocate the main unit and/or the wireless sensor. Both units must be within 330 feet (100m) from each other. Make sure both units are placed at least 3 feet (.91 m) from other electronic appliances and devices that may interfere with the wireless communication (such as TV's, microwaves, computers etc). NOTE: It may take up to 20 minutes for the main unit to re-synchronize with the sensor when batteries are replaced. Use lithium batteries in sensor when temperature is below -4°F (-20°C).
No Wireless Sensor Data (no communication) no bars and flashing " – " data	If wireless reception is bad (no bars), see "Bad Reception" section above. The wireless ID setting on each unit must match for all units to communicate properly. See "Set Wireless ID" on the next page.
Display Console Screen Not Working	Batteries may need replacing Check that AC adaptor is fully inserted if running off AC power only

Please DO NOT return product to the retail store.
For technical assistance and product return information, please call
Customer Care: **877-221-1252** Mon. - Fri. 8:00 A.M. to 4:45 P.M. (CST)
**www.chaneyinstrument.com**

PRODUCT REGISTRATION
To receive product updates and information,
Log on to
www.chaneyinstrument.com

Set Wireless I.D.

This wireless thermometer uses long range 433mhz radio frequency for communication.

In the event that you have reception problems due to interference, both the main unit and the wireless sensor have a selectable wireless ID. The ID switches are located within the battery compartments of the display console and the integrated wireless sensor.

You may choose A, B or C; but both the main unit and the wireless sensor ID's must match for successful synchronization.

A B C   A B C
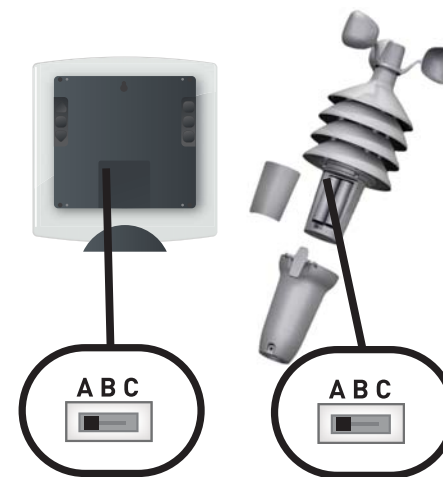
Both wireless ID switches must match

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Unpredictable weather guys

www.acurite**weather**station.com

QR CODE

Product Facts

Batteries: 7 x "AA" (not included)

Lithium Batteries Recommended in **Outdoor Sensor** if temperatures are below -4ºF

Measurement Ranges

Outdoor Temperature: **-40ºF to 158ºF**
-40ºC to 70ºC

Outdoor Humidity: **20% to 95%**

Wind Speed: **0 to 99mph**
0 to 159 kph

Indoor Temperature: **32ºF to 122ºF**
0ºC to 50ºC

Indoor Humidity: **20% to 95%**

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

Depending on home construction materials

MADE IN CHINA
HECHO EN CHINA
Limited One
Year Warranty
Instructions &
Warranty Enclosed
Customer Care:
877-221-1252

www.chaneyinstrument.com

Patent numbers: 5,978,738; 6,076,044; 6,597,990; US 7,637,141 B2
ACURITE® is a registered trademark of the Chaney Instrument Co.
Lake Geneva, WI