

Display for 5-in-1 Weather Sensor model 06057



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.**

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.

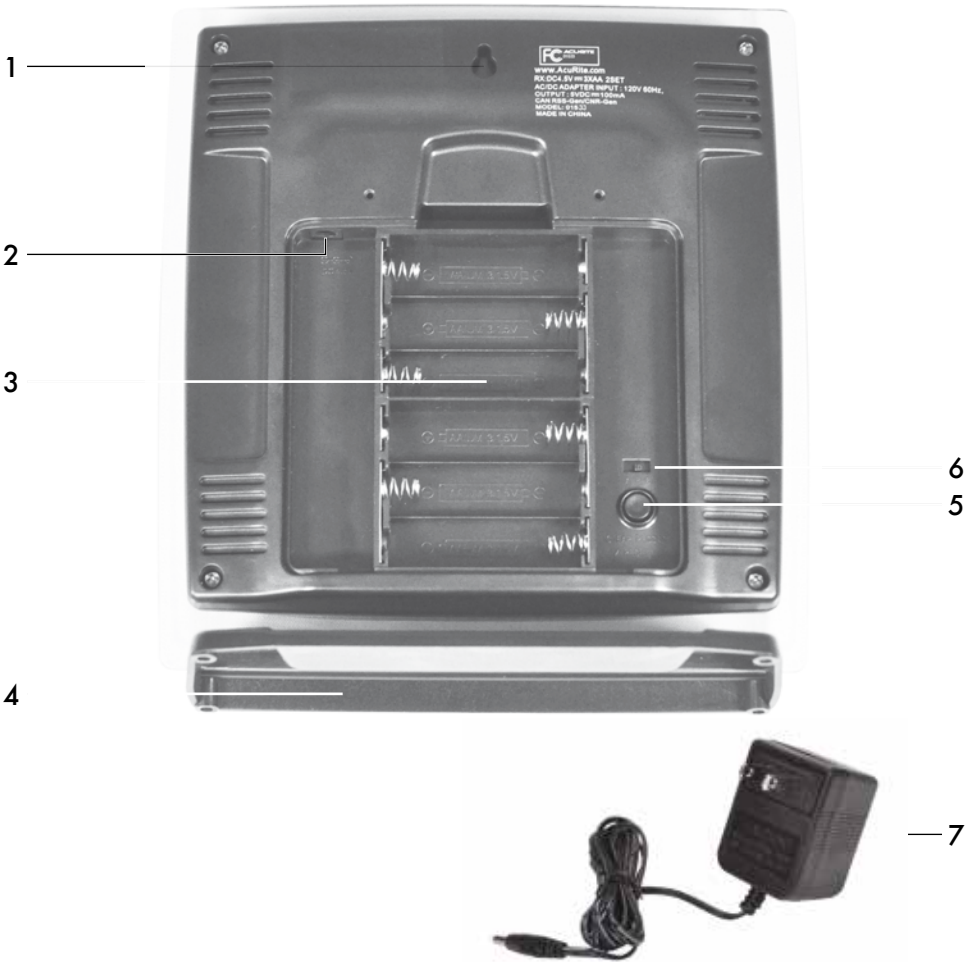
Features & Benefits

Display



- 1. Current Outdoor Temperature**
Arrow icon indicates direction temperature is trending.
- 2. Outdoor Sensor Signal Strength**
- 3. Sensor Low Battery Indicator**
- 4. Current Outdoor Humidity**
Arrow icon indicates direction humidity is trending.
- 5. Date**
- 6. WEATHER SELECT**
Displays heat index, dew point, wind chill, feels like, days with rain this month, and days since last recorded rainfall.
- 7. Learning Mode Icon**
Disappears after weather forecast self-calibration is complete.
- 8. 12 to 24 Hour Weather Forecast**
Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.
- 9. 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).
- 10. Auto or Manual Pressure Mode**
Indicates pressure mode preference.
AUTO Pressure Mode
Pressure will self-calibrate over a 14 day Learning Mode.
MANUAL Pressure Mode
Indicates raw pressure value, no adjustment for sea level (can be calibrated).
- 11. Current Barometric Pressure**
Arrow icon indicates direction pressure is trending.
- 12. SELECT Button**
Press to change the Weather Select category data being display.
- 13. √, SET, ^ Buttons**
For setup preferences and access to historical records.
- 14. RAINFALL Button**
Press to change the RAINFALL data being displayed (Month, Year, All-Time).
- 15. Date Stamp for Previous Rainfall Data (#16)**
- 16. Previous Rainfall Data**
- 17. Storm Alert Indicator**
Activates when barometric pressure drops.
- 18. Current Rainfall Total**
Rainfall recorded since 12:00am.
- 19. AUTO DIM**
Indicates display is in auto-dimming brightness mode (see page 6).
- 20. Rainfall Alert Indicator**
Indicates rainfall of more than 1" (25 mm) of rain in 2 hours or less.
- 21. Clock**
- 22. Current Indoor Humidity**
Arrow icon indicates direction humidity is trending.
- 23. Display Low Battery Indicator**
- 24. Current Indoor Temperature**
Arrow icon indicates direction temperature is trending.
- 25. Peak Wind Speed**
Highest speed from past 60 minutes.
- 26. Wind Speed Alert Indicator**
Activates when wind speed is over 50 mph.
- 27. Current Wind Speed**
- 28. Backlight Button**
for momentary backlight and dimmer settings.
- 29. Current Wind Direction**
- 30. Previous 2 Wind Directions**
- 31. Average Wind Speed**
Average of all speeds over the past 2 minutes.
- 32. HIGH/LOW Icons**
HIGH indicates a high record is shown on the display. LOW indicates a low record is shown.

Back of Display



BACK OF DISPLAY

- 1. Integrated Hang Hole**
For easy wall mounting.
- 2. Plug-in for Power Adapter**
- 3. Battery Compartment**
- 4. Removable Tabletop Stand**
- 5. CLEAR RECORD / RESET Button**
Press to clear record currently being viewed. Press AND HOLD for full reset to factory defaults.

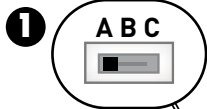
- 6. A-B-C Switch**
ID code that must match 5-in-1 sensor's A-B-C switch to ensure units synchronize.
- 7. Power Adapter**
- 8. Battery Compartment Cover (not shown)**

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

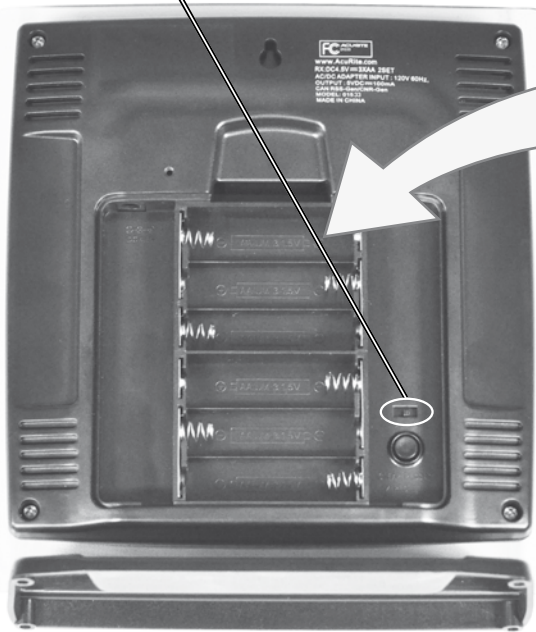
The A-B-C switch is located inside the battery compartment. It can be set to A, B or C. However, you must select the same letter choices for both the sensor and the display in order for the units to synchronize.



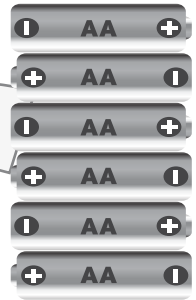
2 Plug Power Adapter into Electrical Outlet

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.



3 Install Backup Batteries (optional) 6 AA Batteries



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 that 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 "v" 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:

CLOCK HOUR
CLOCK MINUTE
CALENDAR MONTH
CALENDAR DATE
CALENDAR YEAR
TEMPERATURE UNITS (°F or °C)
WIND UNITS (MPH, KPH, or Knots)
RAIN UNITS (inches or mm)
PRESSURE UNITS (inHg or hPa)

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

Display Backlight Settings

This weather station's 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" appears below time.

AUTO DIM MODE: Automatically adjusts display brightness based on time of day & year.	
MARCH 11- NOVEMBER 4	6:00 a.m. - 9:00 p.m. = 100% brightness
	9:01 p.m. - 5:59 a.m.= 30% brightness
NOVEMBER 5 - MARCH 10	7:30 a.m. - 7:00 p.m.= 100% brightness
	7:01 p.m. - 7:29 a.m. = 30% brightness

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of the display is 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 unit away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.

PREVENT WIRELESS INTERFERENCE

Place unit at least 3 feet (.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.

<p>STORMY & WINDY</p>  <p>(flashing=stormy)</p>	<p>SNOW LIKELY</p> 	<p>SNOW / RAIN MIX LIKELY</p> 	<p>RAIN LIKELY</p> 	<p>MOSTLY CLOUDY</p> 
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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 station displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).

High & Low Records


Press the "∧" button once to display today's high records or the "∨" button once to display today's low records for indoor and outdoor temperature and humidity. Today's records automatically clear at 12:00am midnight every day

Press the "∧" or "∨" button a second time to review the all-time high or low records (shown one at a time) for: outdoor temperature, indoor temperature, outdoor humidity, indoor humidity. You will automatically exit the records if no buttons are pressed for 5 seconds.

To manually clear a record from memory, press the "CLEAR RECORD/RESET" button, located in the battery compartment of the display, while viewing the record you want to clear (rainfall OR temperature/humidity).

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

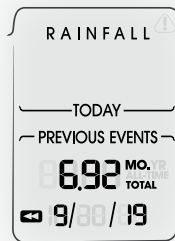
CURRENT YEAR TOTAL RAINFALL

PREVIOUS YEAR TOTAL RAINFALL

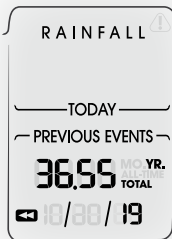
ALL-TIME TOTAL RAINFALL (date shown is start date of the all-time total;
the date the display was powered on)



TOTAL RAINFALL
FOR DATE SHOWN



TOTAL RAINFALL
FOR MONTH SHOWN



CURRENT YEAR
TOTAL RAINFALL




PREVIOUS YEAR
TOTAL RAINFALL



ALL-TIME
TOTAL RAINFALL

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

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 12).
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 power adapter is plugged into the display and an electrical outlet.• Check that the batteries are installed correctly. Batteries may need to be replaced.• Reset the display by pressing and holding the CLEAR RECORD / RESET button, 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 “^” and “v” buttons simultaneously for at least 5 seconds.
2. To adjust the currently selected (flashing) item, press and release the “^” or “v” 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 20 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 RANGE	32°F to 122°F; 0°C to 50°C
DISPLAY'S BUILT-IN HUMIDITY 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 power 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

FCC Information

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

- 1- This device may NOT cause harmful interference, and
- 2- This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Such modifications could void the user authority to operate the equipment.
This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Customer Support

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



(877) 221-1252

Visit us at www.Acurite.com

- ▶ Installation Videos
- ▶ 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. Remedy for breach of this warranty is limited to repair or replacement (if not feasible, we may, at our option, refund the amount of the original purchase price. 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 ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

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