ACU>RITE.

Weather Center

model 00639W



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

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Congratulations on your new AcuRite product. To ensure the best possible product performance, please read this manual in its entirety and retain it for future reference.

Unpacking Instructions

Remove the protective film that is applied to the LCD screen prior to using this product. Locate the tab and peel off to remove.

PRODUCT MUST BE REGISTERED

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TO RECEIVE WARRANTY SERVICE

SUPPORT

Package Contents

- 1. Display unit with tabletop stand
- 2. 3-in-1 sensor
- 3. Sensor mounting bracket
- 4. Mounting hardware
- 5. Instruction Manual

IMPORTANT

PRODUCT REGISTRATION

Register online to receive 1 year warranty protection

www.AcuRite.com

Features & Benefits





3-in-1 SENSOR

- 1. Temperature & Humidity Sensors (internal)
- 2. Release Lever for Battery Access
- 3. Mounting Point
- 4. Wind Speed Anemometer

Mounting Hardware 5.

Includes anchors and screws.

Qty Diameter Length 1″ 4 #4 1 #6 or #8 1/4" or 3/8

6. Mounting Bracket

7. A-B-C Switch (not shown) ID code that must match display's A-B-C switch to ensure units synchronize.

Features & Benefits

Display Unit



DISPLAY UNIT

1. History Chart Icon

Indicates data is currently displayed on the History Chart (#4).

- 2. Current Wind Speed
- 3. Peak Wind Speed

4. Multi-Variable History Chart

Displays the past 12 hours of data for temperature, humidity, wind speed, wind peak, wind average or pressure.

5. 12 to 24 Hour Weather Forecast Self-Calibrating Forecasting pulls data from the outdoor sensor to generate your personal forecast.

6. Learning Mode Icon

Disappears after weather forecast self-calibration is complete.

7. Seasonal Display

Heat index displays when temperature is 80°F (27°C) or higher. Dew Point displays when temperature is between 41°F - 79°F (5°C - 26°C). Wind Chill displays when temperature is 40°F (4°C) or lower.

8. Outdoor Sensor Signal Strength

9. Alarm On/Off Indicator For Selectable Category (#14)

10. Programmable Alarm Settings

11. Alarm On/Off Button

Activate alarm; press and hold to adjust alarm values.

12. 🔻 Button

Press to select Category (shown in #14) and change settings.

13. SET Button

For setup preferences.

14. Selectable Category

15. 🛦 Button

Press to select Category (shown in #14) and change settings.

16. Records Button

Press for all-time low and date recorded for current category selected on display (#14). Press twice for all-time high and date recorded.

17. Display Stand

18. Record Lows

Shown for current category selected on the display (#14).

19. Clear Button

Deletes record low (#18) shown.

20. Record Highs

Shown for current category selected on the display (#14).

21. Clear Button

Deletes record high (#20) shown.

22. Date

23. Clock

24. Current Indoor Humidity

Arrow icon indicates direction humidity is trending.

25. Current Indoor Temperature Arrow icon indicates direction

temperature is trending.

26. Moon Phase

27. Barometric Pressure

Arrow icon indicates the direction the pressure is trending.

28. Current Outdoor Humidity

Arrow icon indicates the direction the humidity is trending.

29. Current Outdoor Temperature Arrow icon indicates direction the

Arrow icon indicates direction the temperature is trending.

30. Alarm On Indicator

Indicates alarm activated for category selected (#14).

31. Average Wind Speed

Based on all wind speed readings from the past 2 minutes.

Back of Display Unit



BACK OF DISPLAY UNIT

1. CLEAR TODAY Button Clears data recorded since 12:00am.

2. **RESET Button**

Full reset to factory defaults.

3. A-B-C Switch

ID code that must match 3-in-1 sensor's A-B-C switch to ensure units synchronize.

4. **RESET REC Button**

Resets all readings except time & date.

- 5. Battery Compartment
- 6. Battery Compartment Cover

3-in-1 Sensor Setup

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 unit in order for the units to synchronize.

Install or Replace Batteries

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

The 3-in-1 sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the 3-in-1 sensor for temperatures below -4°F / -20°C.

- 1. Press the release lever and pull off the lower housing of the sensor.
- 2. Remove the battery compartment cover.
- Insert 4 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
- 4. Replace the battery cover and lower housing of the sensor.



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Display Unit Setup

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

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 choices for both the display unit and the sensor in order for the units to synchronize.

Install or Replace Batteries

- 1. Remove the battery compartment cover.
- Insert 3 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
- <complex-block>



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AA

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

The clock and calendar are utilized to time stamp history records and other data, so it is important to set the time and date soon after you power on the display unit.



even after setup.







Set the Time

- Press the "▲" or "▼" buttons until "SET CLOCK?" is displayed on the Selectable Category part of the display unit.
- 2. Press the "SET" button to set the clock.
- Press the "▲" or "▼" buttons to adjust the hour. Note the "AM" and "PM" indicators.
- Press the "SET" button to confirm hour selection.
- Press the "▲" or "▼" buttons to adjust minutes.
- 6. Press the "SET" button to confirm minute selection.

The clock is now set.

Set the Date

- Press the "▲" or "▼" buttons until "SET DATE?" is displayed on the Selectable Category part of the display unit.
- 2. Press the "SET" button to set the date.
- Press the "▲" or "▼" buttons to adjust the month.
- 4. Press the "SET" button to confirm month selection.
- Press the "▲" or "▼" buttons to adjust the day.
- 6. Press the "SET" button to confirm day selection.
- 7. Press the "▲" or "▼" buttons to adjust the year.
- Press the "SET" button to confirm year selection.

The date is now set.

Select Measurement Units

To select between standard units (mph, °F, etc.) or metric units (kph, °C, etc.):

- Press the "▲" or "▼" buttons until "SET UNITS?" is displayed on the Selectable Category part of the display unit.
- 2. Press the "SET" button to set the unit preference.
- Press the "▲" or "▼" buttons to select "STAND" for standard or "METRIC" for metric units.
- 12:38 № SÊT LINIŢS? ▼ SET ▲
- 4. Press the "SET" button to confirm your selection.

Units are now set.

Placement for Maximum Accuracy

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



Display Unit Placement

Place the display unit 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 unit stands upright for tabletop use or is wall-mountable.



3-in-1 Sensor Placement

The 3-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

Display unit 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.).

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 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/3in1**



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3-in-1 Sensor Installation Guidelines

INSTALLATION HEIGHT Mount the sensor at a minimum height of 5 feet (1.5 meters) off the ground, in an open area. Higher is better for wind measurements. The National Weather Service recommends 33 feet high!

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

LEVEL INSTALLATION Use a bubble level (not included) to ensure level installation for accurate wind measurement.

Top or Side Mount

- Insert the mounting base into the hole on the bottom of the sensor.
- 2. Use one of the screws included in the hardware bag to fasten the lower sensor housing to the mounting base.
- 3. Make sure the sensor is level using a bubble level.
- 4. Fasten mounting base to a post or railing using 2 screws.

Pipe Mount

- Insert pipe (we recommend 3/4" schedule 40 PVC / 25.8 mm O.D., not included) or similar item all the way into the hole on the bottom of the sensor. Note: Mounting base is not used.
- 2. Use one of the screws included in the hardware bag to fasten the lower sensor housing securely to the pipe.
- 3. Make sure the sensor is level using a bubble level.

The 3-in-1 sensor is now ready to use.

Basic Setup is Complete

The 3-in-1 sensor will now synchronize with the display unit. It may take a few minutes for synchronization to complete. If both or one of the units appear to be functioning improperly, please refer to the troubleshooting section.





Using The Weather Center Learning Mode

Self-Calibrating Forecasting use a unique algorithm to analyze changes in pressure over a time period (called Learning Mode) to determine your altitude. After 14 days, the Learning Mode icon disappears from the display screen. At this point, the self-calibrated pressure is tuned in to your location and the unit is ready for superior weather prediction.

Weather Forecast

AcuRite's patented Self-Calibrating Forecasting provides your personal forecast of weather conditions for the next 12 to 24 hours by collecting data from the sensor in your backyard. It generates a forecast with pinpoint accuracy personalized for your exact location.



View the complete list of icons at www.AcuRite.com/acurite-icons

Multi-Variable History Chart

The multi-variable history chart lets you monitor the change in conditions over the last 12 hour time period (-12, -6, -3, -2, -1, 0). Toggle between outdoor temperature and humidity, wind speed, peak and average wind speeds, and barometric pressure readings

Wind Speed

The Wind Speed area of the display features the CURRENT speed, as well as the AVERAGE and PEAK wind speeds. AVERAGE wind speeds are based on all wind speed readings from the last 2 minutes. PEAK wind speed is the highest speed recorded from the past 60 minutes.

Barometric Pressure

Subtle variations in barometric pressure greatly impact 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). The multivariable history chart lets you monitor the change in pressure over time.

Moon Phase

Track the phases of the moon, conveyed through simple lunar phase icons:











FULL







NEW

WAXING CRESCENT

1ST QUARTER

3RD QUARTER

WANING

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Programmable Weather Alarms

Each Selectable Weather Category features an alarm option. When an alarm sounds, the display unit emits an audible beep and flashes the affected category, its alarm settings, and any other relevant data.

Some alarms can be customized to alert you when your programmed value is reached. Alarms may be set for:

• Wind speed

• Wind chill

• Dew point

- Oncoming stormOutdoor temperature
- Heat indexIndoor temperature
- Outdoor humidity
- Indoor humidity

Set a Weather Alarm

- Choose the weather category for which you wish to set an alarm by pressing the "▲" or "▼" buttons until the category is displayed on the Selectable Category part of the display unit.
- 2. To program a value (only applies to alarms that require a value), press AND HOLD the "ALARM ON/OFF" button until the "SET" indicator appears in the area of the display labeled "ALARM" (left of the selected weather category) and the alarm setting flashes.
- 3. Adjust the alarm value by pressing the "▲" or "▼" buttons.
- 4. Press the "SET" button to confirm a value.
- 5. The alarm ON indicator will highlight on the display.

Alarm is now programmed and turned on.



Silence a Sounding Alarm

The alarm sounds initially for a few minutes, then silences itself. The alarm then sounds every few minutes afterwards until one of the following happens:

- 1. "SNOOZE" Press any button. Alarm silences, but sounds again if the alarm condition reoccurs.
- 2. Turn the alarm "OFF" Deactivates the alarm.

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Troubleshooting

| Problem | Possible Solution |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No outdoor sensor reception T | Relocate the display unit and/or the 3-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 (.9 m) 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 up to 20 minutes for display unit and sensor to synchronize after batteries are replaced. Synchronize the units: Bring both the sensor and display unit indoors and remove batteries from each. Make sure the A-B-C switch on both units match. Reinstall batteries in the display unit. Let the units sit within a couple feet of each other for about 20 minutes to gain a strong connection. |
| Outdoor temperature is flashing or showing dashes | Flashing of the outdoor temperature may be an indication of wireless interference. Make sure the A-B-C switch in the battery compartments of both the display unit and sensor are switched to the same letter. You may choose A, B or C; but both units must match to sync up. |
| Inaccurate wind readings | What is wind reading being compared to? Proweather stations are typically mounted at 30 ft high or more. Make sure to compare data using a sensor positioned at the same mounting height. Check location of the sensor. Ensure it's mounted a minimum of 5 ft in the air with no obstructions around it (within several feet). Ensure wind cups are spinning freely. If they hesitate or stop try lubricating with graphite powder or spray lubricant. |
| Display screen not working | Check that the batteries are installed correctly. Batteries may need to be replaced. Reset the display by pressing the "RESET" button, located in the battery compartment of the display unit. |

| Problem | Possible Solution |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inaccurate forecast | Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. Has Learning Mode icon disappeared from the display unit? 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 unit will restart Learning Mode. After 14 days, forecast should be fairly accurate, however Learning Mode calibrates for a total of 33 days. |
| Inaccurate temperature or humidity | Make sure both the display unit and 3-in-1 sensor are placed out of direct sunlight and away from any heat sources or vents (see p.11). Make sure both units are positioned away from moisture sources (see p.11). Make sure 3-in-1 sensor is mounted at least 5 ft off of the ground. |

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 Unit 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.

3-in-1 Sensor Care

Clean the Sensor

Clean with a soft damp cloth. Do not use caustic cleaners or abrasives.

Insect Prevention

Insects may cause obstructions and interrupt data by nesting in or on the 3-in-1 sensor. To limit this problem, spray the outside of the sensor with a household insect repellent. Consult the insect repellent instructions prior to use.

Snow & Freezing Weather

The 3-in-1 sensor will not be damaged by freezing conditions.

Clean the Wind Anemometer

Remove foreign matter from the outside of the sensor for free movement of the wind vane and anemometer. If needed, use a small amount of spray lubricant, clear silicone or graphite powder on the anemometer for improved movement.

Specifications

| TEMPERATURE RANGE | Outdoor: -40°F to 158°F; -40°C to 70°C |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| | Indoor: 32°F to 122°F; 0°C to 50°C |
| HUMIDITY RANGE | Outdoor: 1% to 99% |
| | Indoor: 16% to 98% |
| WIND SPEED | 0 to 99 mph; 0 to 159 kph |
| WIRELESS RANGE | 330ft / 100m depending on home construction materials |
| OPERATING FREQUENCY | 433 MHz |
| POWER | Display: 3 x AA alkaline batteries |
| | Sensor: 4 x AA alkaline or lithium batteries |
| DATA REPORTING | Wind Speed: 18 second updates Outdoor temperature & humidity: 18 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:

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-inclass service. For assistance, please have the model number of this product available and contact us in any of the following ways:





24/7 support at www.AcuRite.com

- Installation Videos
- Instruction Manuals
- Replacement Parts

(•]:

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Limited One Year Warranty

At AcuRite, we proudly uphold our commitment to quality technology. Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase.

We recommend that you visit us at www.AcuRite.com for the fastest way to register your product. However, product registration does not eliminate the need to retain your original proof of purchase in order to obtain warranty benefits.

Chaney Instrument Co. warrants that all products it manufactures to be of good material and workmanship, and to be free of defects when properly installed and operated for a period of one year from the date of purchase. Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). 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 Chaney, and at its sole option, be repaired or replaced by Chaney. Transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This

warranty will not be breached, and Chaney will give no credit for products it manufactures which have received normal wear and tear, been damaged (including by acts of nature), tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

Register a Product

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For in-warranty claims: Chaney Instrument Co. 965 Wells St., Lake Geneva, WI 53147

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