

### Weather Forecaster model 00827



#### CONTENTS

Unpacking Instructions .....	2	Set Time & Date .....	5
Package Contents .....	2	Placement Guidelines .....	6
Product Registration .....	2	Using the Forecaster.....	7
Features & Benefits: Sensor.....	2	Troubleshooting .....	9
Features & Benefits: Display....	3	Care & Maintenance.....	10
Setup .....	4	Specifications.....	10
Install or Replace Batteries.....	4	FCC Information .....	10
Temperature Units.....	5	Customer Support .....	11
		Warranty.....	11

**Questions?** Contact Customer Support at (877) 221-1252 or visit [www.AcuRite.com](http://www.AcuRite.com).

**SAVE THIS MANUAL FOR FUTURE REFERENCE.**

# ACURITE®

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.

## Package Contents

1. Display unit
2. Outdoor sensor
3. Instruction Manual

# IMPORTANT

PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

## PRODUCT REGISTRATION

Register online to receive 1 year warranty protection  
[www.AcuRite.com](http://www.AcuRite.com)

## SUPPORT

- Support Forum
- Archived Products
- ▶ Register a Product

## Features & Benefits

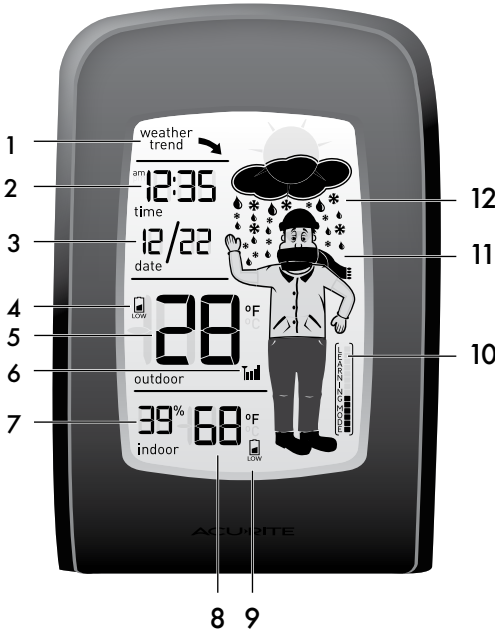


## OUTDOOR SENSOR

- 1. Integrated Hanger**  
For easy placement.
- 2. Wireless Signal Indicator**  
Flashes when data is being sent to the display unit.
- 3. Battery Compartment Cover**

# Features & Benefits

## Front of Display Unit



## Back of Display Unit



## DISPLAY UNIT

- 1. Weather Trend Indicator**  
Arrow icon indicates the direction the pressure is trending.
- 2. Clock**
- 3. Date**
- 4. Sensor Low Battery Indicator**
- 5. Current Outdoor Temperature**
- 6. Outdoor Sensor Signal Strength**
- 7. Current Indoor Humidity**
- 8. Current Indoor Temperature**
- 9. Display Unit Low Battery Indicator**
- 10. Learning Mode Icon**  
Disappears after weather forecast self-calibration is complete.

## 11. How-to-Dress Character

Includes 20 different clothing recommendations based on the weather forecast.

## 12. 12 to 24 Hour Weather Forecast

Self-Calibrating Forecasting pulls data from the outdoor sensor to generate your personal forecast.

## BACK OF DISPLAY UNIT

### 13. Integrated Hang Hole

For easy wall mounting.

### 14. + Button

For setup preferences.

### 15. SET Button

For setup preferences.

### 16. - Button

For setup preferences.

## Install or Replace Batteries

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

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



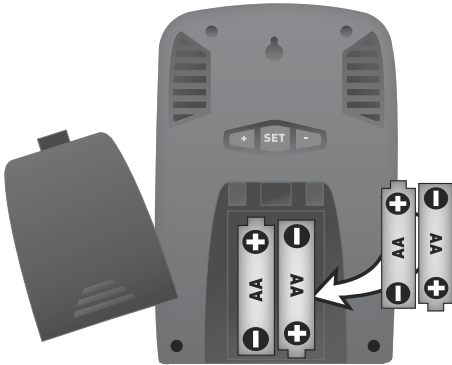
### Outdoor Sensor

1. Slide off the battery compartment cover.
2. Insert 2 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
3. Replace the battery cover.

**LITHIUM BATTERIES** 4 F 4 C (70°C) **158°F**

**ALKALINE BATTERIES** 4 F 2 C (70°C) **158°F**

## Display Unit



1. Slide off the battery compartment cover.
2. Insert 2 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
3. Replace the battery cover.



**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.

## Select Temperature Units

To select between degrees Fahrenheit (°F) or Celsius (°C) temperature units, press the “°C/°F” button located on the back of the display unit inside the battery compartment area.

## Set Time & Date

Press and hold the “SET” button, located on the back of the display unit, to enter SET MODE. Once in set mode, the preference you are currently setting will blink on the display.

To adjust the currently selected (flashing) item, press and release the “+” or “-” buttons (press and HOLD to fast adjust).

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

CLOCK HOUR  
CLOCK MINUTE  
CALENDAR YEAR  
CALENDAR MONTH  
CALENDAR DATE

You will automatically exit SET MODE if no buttons are pressed for 30 seconds. Enter setup mode at any time by pressing and holding the “SET” button.

## Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display unit and outdoor 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. Display unit stands upright for tabletop use or is wall-mountable.

### Outdoor Sensor Placement

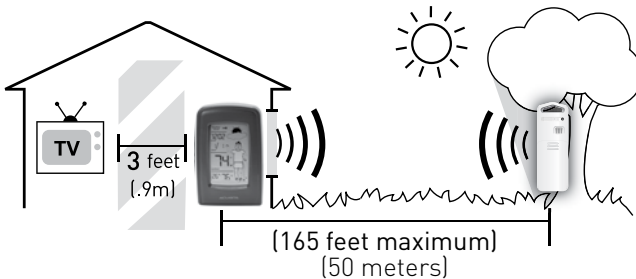
Sensor must be placed outside to observe outdoor conditions. Sensor is water resistant and is designed for general outdoor use, however, to extend its life place the sensor in an area protected from direct weather elements.

Hang the sensor using the integrated hang holes or hanger, or by using string (not included) to hang it from a suitable location, like a well covered tree branch. The best location is 4 to 8 feet above the ground with permanent shade and plenty of fresh air to circulate around the sensor.



## Important Placement Guidelines

- To ensure accurate temperature measurement, place units out of direct sunlight and away from heat sources or vents.
- Display unit and outdoor sensor must be within 165 ft (50 m) of each other.
- To maximize wireless range, place units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.
- To prevent wireless interference, place both units at least 3 ft (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.)



## Setup is Complete

The sensor will now synchronize with the display unit. It may take a few minutes for synchronization to complete. Please refer to the troubleshooting section of this manual if anything appears to be functioning improperly.





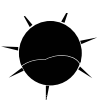
## Using the How-to-Dress Weather Forecaster

### 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><b>HEAVY STORM</b></p>  <p>(flashing=severe)</p>	<p><b>STORMY</b></p> 	<p><b>MOSTLY CLOUDY</b></p> 	<p><b>PARTLY CLOUDY</b></p> 	<p><b>MOSTLY SUNNY</b></p> 
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View the complete list of icons at [www.AcuRite.com/acurite-icons](http://www.AcuRite.com/acurite-icons)

### Weather Trend

Subtle variations in barometric pressure greatly impact the weather. This weather forecaster displays an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).

### How-to-Dress Character

Includes 20 different clothing recommendations based on the weather forecast:

COLDER		MILD		WARMER
 <p>hat scarf gloves heavy coat long pants boots</p>	 <p>hat light jacket long pants boots</p>	 <p>sweatshirt long pants shoes</p>	 <p>t-shirt long pants shoes</p>	 <p>sunglasses t-shirt shorts shoes</p>

## High/Low Records

Today's high and low records are displayed for indoor/outdoor temperature and indoor humidity. Today's records automatically clear at 12:00am midnight every day.

To view the HIGH temperature and humidity records, press and release the "+" button, located on the back of the display. The "MAX" icon appears on the display.


To view the LOW temperature and humidity records, press and release the "-" button, located on the back of the display. The "MIN" icon appears on the display.

To manually reset the HIGH records, press and HOLD the "+" button while viewing the records you wish to clear. Dashes display to confirm you have cleared the records.

To manually reset the LOW records, press and HOLD the "-" button while viewing the records you wish to clear. Dashes display to confirm you have cleared the records.



# Troubleshooting

Problem	Possible Solution
<p><b>No outdoor sensor reception</b></p> 	<p>If the wireless signal indicator shows no bars:</p> <ul style="list-style-type: none"> <li>Relocate the display unit and/or the outdoor sensor. The units must be within 165 ft (50 m) of each other.</li> <li>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).</li> <li>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.</li> </ul>
<p><b>Outdoor temperature is flashing or showing dashes</b></p>	<p>Flashing of the outdoor temperature is generally an indication of wireless interference.</p> <ol style="list-style-type: none"> <li>Bring both the sensor and display unit indoors and remove at least one battery from each.</li> <li>Reinstall the battery in the outdoor sensor.</li> <li>Reinstall the battery in the display unit.</li> <li>Let the units sit within a couple feet of each other for about 20 minutes to gain a strong connection.</li> </ol>
<p><b>Inaccurate temperature or humidity</b></p>	<ul style="list-style-type: none"> <li>Make sure both the display unit and sensor are placed out of direct sunlight and away from any heat sources or vents (see page 6).</li> <li>Make sure both units are positioned away from moisture sources (see page 6).</li> </ul>
<p><b>Inaccurate forecast</b></p>	<ul style="list-style-type: none"> <li>The Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions.</li> <li>Has Learning Mode icon disappeared from the display unit? Learning Mode must complete before forecast and pressure will be accurate.</li> <li>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.</li> </ul>
<p><b>Display screen not working</b></p>	<ul style="list-style-type: none"> <li>Check that the batteries are installed correctly. Batteries may need to be replaced.</li> </ul>

**If your AcuRite product does not operate properly after trying the troubleshooting steps, visit [www.AcuRite.com](http://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.

## Outdoor Sensor Care

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

## Specifications

<b>TEMPERATURE RANGE</b>	Outdoor: -40°F to 158°F; -40°C to 70°C
	Indoor: 32°F to 122°F; 0°C to 50°C
<b>INDOOR HUMIDITY</b>	16% to 98%
<b>WIRELESS RANGE</b>	165 ft / 50 m depending on home construction materials
<b>WIRELESS FREQUENCY</b>	433 MHz
<b>POWER</b>	4 x AA alkaline or lithium batteries (not included)
<b>DATA REPORTING</b>	30 seconds

## 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



info@chaney-inst.com

24/7 support at [www.AcuRite.com](http://www.AcuRite.com)

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

## IMPORTANT

PRODUCT MUST BE REGISTERED  
TO RECEIVE WARRANTY SERVICE

### PRODUCT REGISTRATION

Register online  
to receive 1 year  
warranty protection

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

▶ NOW

SUPPORT

Support Forum

Archived Products

▶ Register a Product

## 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](http://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.

The above-described warranty is expressly in lieu of all other warranties, express or implied, and 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. Chaney expressly disclaims all liability for special, consequential or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Chaney further disclaims all liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of Chaney's products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to assume for Chaney any other liability in connection with the sale of its products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this paragraph, and the preceding paragraph, unless done in writing and signed by a duly authorized agent of Chaney. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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

# ACU RITE®



Weather  
Stations



Temperature  
& Humidity



Weather  
Alert Radio



Kitchen  
Thermometers  
& Timers



Clocks

*It's more than accurate, it's ACU RITE.*

AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence™.

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