

## **Weather Station**

model 01121





### **CONTENTS**

Unpacking Instructions 2	P
Package Contents 2	L
Product Registration 2	P
Features & Benefits: Sensor 2	Т
Features & Benefits: Display 3	
Setup 6	
Sensor Setup 6	S
Display Setup 7	F
Set the Time, Date & Units 8	C
Backlight Settings 8	٧

Placement Guidelines	9
Using the Weather Station.	10
Programmable Alarms	11
Troubleshooting	12
Care & Maintenance	13
Calibration	13
Specifications	14
FCC Information	14
Customer Support	15
Warrantv	15

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

SAVE THIS MANUAL FOR FUTURE REFERENCE.



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 with Tabletop Stand
- 2. Outdoor Sensor
- 3. Instruction Manual
- 4. Power Adapter

## **IMPORTANT**

PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

### **PRODUCT REGISTRATION**

Register online to receive 1 year of warranty protection

www.AcuRite.com

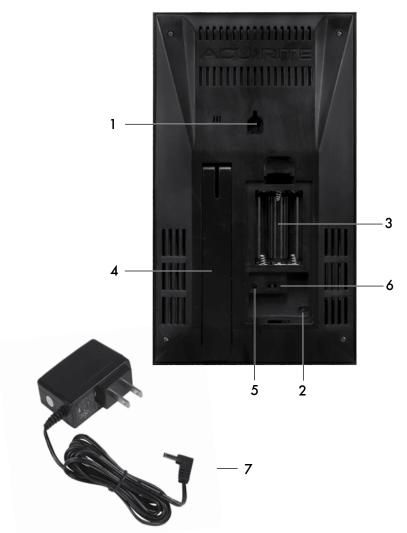
### **Features & Benefits**



### **OUTDOOR SENSOR**

- 1. Integrated Hanger For easy placement.
- 2. Wireless Signal Indicator
  Flashes when data is being sent to the display.
- 3. Battery Compartment
- 4. A-B-C Switch ID code that must match display's A-B-C switch to ensure units synchronize.
- 5. Battery Compartment Cover

### **Features & Benefits**



### **BACK OF DISPLAY**

- 1. Integrated Hang Hole For easy wall mounting.
- 2. Plug-in for Power Adapter
- 3. Backup Battery Compartment
- 4. Fold-out Tabletop Stand
- 5. **RESET Button**For full reset to factory defaults.

### 6. A-B-C Switch

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

- 7. Power Adapter
- 8. Battery Compartment Cover (not shown)

# Features & Benefits Display



# Features & Benefits FRONT OF DISPLAY

#### 1. Date

### 2. Heat Index/Dew Point

Heat Index calculation displays when temperature is 80°F (27°C) or above.

Dew Point calculation displays when temperature is 79°F (26°C) or below.

### 3. Outdoor Sensor Signal Strength

#### 4. Alarm ON Indicator

Indicates alarm is activated to emit an audible alert when conditions exceed your presets (see page 11).

### 5. Current Outdoor Temperature

Arrow icon indicates the direction temperature is trending.

## 6. Outdoor High & Low Temperature Records

Highest and lowest temperature recorded since midnight.

### 7. Current Indoor Temperature

Arrow icon indicates direction temperature is trending.

#### 8. 🖪 Button

For alarm setup.

### 9. $\wedge$ and $\vee$ Buttons

For setup preferences and viewing indoor high & low records.

#### 10. SET Button

For setup preferences.

### 11. 🄆 Button

For momentary backlight and dimmer settings.

### 12. Current Indoor Humidity

Arrow icon indicates direction humidity is trending.

### 13. Humidity Level Indicator

Indicates current humidity conditions (humid, OK, dry).

## 14. Outdoor High and Low Humidity Records

Highest and Lowest humidity recorded since midnight.

### 15. Current Outdoor Humidity

Arrow icon indicates the direction humidity is trending.

### 16. Sensor Low Battery Indicator

### 17. Current Barometric Pressure

Arrow icon indicates the direction pressure is trending.

### 18. 12 to 24 Hour Weather Forecast

Self-calibrating forecasting pulls data from the outdoor sensor to generate your personal forecast.

### 19. Learning Mode Icon

Disappears after weather forecast self-calibration is complete.

## 20. Auto Icon

Indicates display is in auto-dimming brightness mode (see page 8).

### 21. Display Low Battery Indicator

### 22. Atomic Clock

Maintains time with split-second accuracy and automatically updates for daylight saving time.

## **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 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 sensor requires lithium batteries in low-temperature

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

- Slide off the battery compartment cover. Take note of the A-B-C switch setting inside the battery compartment.
- Insert 2 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
- 3. Replace the battery cover.





## **Display Setup**

Set the A-B-C Switch

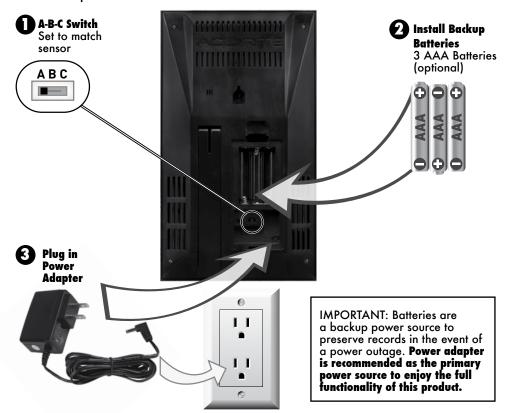
Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B or C. You must select the same letter choices for both the display and the sensor in order for the units to synchronize.

- Install or Replace Backup Batteries (optional)
  - Remove the battery compartment cover.

- Insert 3 x AAA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
- 3. Replace the battery cover.

## **3** Plug in Power Adapter

For the best performance, plug in the power adapter as the main power source for 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 will not 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 short-circuit the supply terminals.

## **Atomic Clock**

AcuRite atomic clocks use a radio-controlled signal (RCC) to synchronize to the correct time broadcast by the National Institute of Standards and Technology (NIST) Radio Station WWVB, located near Fort Collins, Colorado. WWVB broadcasts the current time and date with split-second accuracy.

The atomic clock and calendar will maintain the correct time and date, and automatically update for daylight saving time to provide the most accurate timekeeping standard possible.

Please note: Signal reception is normally better at night and when the weather is clear. The atomic signal generally takes a few hours to synchronize, so it is important to manually set the time and date after powering on the display.

**Set the Time, Date & Units**Press and release 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 "\times" 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:

TIME ZONE (EST, CST, MST, PST, AKT, HAT, NST, AST) AUTO CHANGE for DST? (Daylight Saving Time ON or OFF)\* **CLOCK HOUR** 

**CLOCK MINUTE** CALENDAR MONTH

CALENDAR DATE

CALENDAR YEAR

TEMPERATURE UNITS (°F or °C)

BAROMETRIC PRESSURE UNITS (hPa or inHa) RADIO CONTROLLED CLOCK FUNCTION (ON or OFF)

\*If you live in an area that observes Daylight Saving Time, DST should be set to ON, even if it is not currently Daylight Saving Time.

You will automatically exit SETUP MODE if no buttons are pressed for 10 seconds. Enter setup mode at any time by pressing the "SET" button.

## **Display Backlight Settings**

This weather station's color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (30%) brightness.

When display is powered with the power adapter, backlight remains on at 100% brightness. Press the \$\foatgap\$ button once to dim to 60% brightness; press again to dim to 30%, press a third time to enter AUTO-DIM mode. "" will appear next to the clock.

**NOTE:** Pressing and holding the "" button for 5 seconds will disable the backlight. Once any button is pressed, the backlight will return to your selected setting.

<b>AUTO DIM MODE:</b> Automatically adjusts display brightness based on time of day.	
6:00 a.m 9:00 p.m. = 100% brightness	
9:01 p.m 5:59 a.m.= 30% brightness	

## **Placement for Maximum Accuracy**

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



## **Display Placement**

Place the display in a dry area free of dirt and dust. Display stands upright for tabletop use or is wall-mountable.

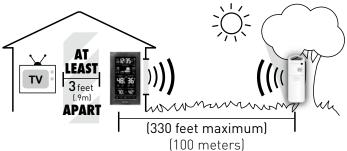
### **Outdoor Sensor Placement**

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 (1 to 2 meters) 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 any heat sources or vents.
- Display and outdoor sensor must be within 330 ft (100 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 (90 cm) away from electronic devices (TV, computer, microwave, radio, etc.).



## **Setup is Complete**

The sensor will now synchronize with the display. 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.

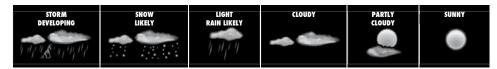
## **Using the Weather Station**

## **Learning Mode**

Self-calibrating forecasting uses 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

### **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**

Today's high and low records are displayed for indoor and outdoor temperature and humidity. Today's records automatically clear at 12:00am midnight every day. View today's indoor high or low records by pressing and releasing the "\nabla" or "\nabla" buttons.

To manually clear all of today's LOW recorded values, press and release the "\" button to view low records, then press and hold the "\" button for 2 seconds. Dashes display to confirm you have cleared the LOW records.

To manually clear all of today's HIGH recorded values, press and release the "\wedge" button to view high records, then press and hold the "\wedge" button for 2 seconds. Dashes display to confirm you have cleared the HIGH records.

## **Programmable Alarms**

This display features programmable alarms that sound an alert to notify you when a value (for temperature or humidity) has been reached or exceeded. When an alarm is triggered, the display emits an audible beep and flashes data in the affected category. You can customize the alarms by turning ON or OFF the alarms you'd like activated or deactivated, and by inputting your own values to trigger the alarm.

## Setup an Alarm

- 1. Press and release the "\" button until the reading for which you wish to set an alarm is shown on the display. "\" will be shown.
- 2. Press and release the "V" or "∧" buttons until "◄")" appears.
- 3. Press and release the "SET" button. The current HIGH alarm value will flash on the display.
- 4. Press and release the "\nabla" or "\nabla" buttons to adjust the alarm's HIGH value.
- 5. Press and release the "SET" button. The current LOW alarm value will flash on the display.
- 6. Press and release the "V" or "∧" buttons to adjust the alarm's LOW value.
- 7. Press and release the "SET" button to end alarm adjustments, OR press and release the "¶" button to adjust the next alarm's values.

### Disable an Alarm

- Press and release the "◀" button until the reading for which you wish to disable an alarm is shown on the display. "◄" will be shown.
- 2. Press and release the"∧" or "∨" buttons until "◀" appears.
- 3. Press and release the "◀" button to cycle to the next reading.
- 4. Repeat steps 1-3, as needed.

**Note:** To disable ALL alarms at once, press and HOLD the "◀" button for 10 seconds.

You will automatically exit alarm SET MODE if no buttons are pressed for 10 seconds. Enter alarm SET MODE at any time by pressing the "◀" button.

## **Troubleshooting**

Problem	Possible Solution
No outdoor sensor reception no bars	<ul> <li>If the wireless signal indicator shows no bars:</li> <li>Relocate the display and/or the outdoor sensor. The units must be within 330 ft (100 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 a few minutes for display and sensor to synchronize after batteries are replaced.</li> </ul>
Outdoor temperature is flashing or showing dashes	Flashing of the outdoor temperature is generally an indication of wireless interference.  1. Bring both the sensor and display indoors and remove batteries from each.  2. Make sure the A-B-C switches on both units match.  3. Reinstall batteries in the outdoor sensor.  4. Reinstall batteries in the display.  5. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.
Inaccurate forecast	<ul> <li>Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions.</li> <li>Has the learning mode icon disappeared from the display? 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 will restart Learning Mode. After 14 days, forecast should be fairly accurate, however, Learning Mode calibrates for a total of 33 days</li> </ul>
Inaccurate temperature or humidity	<ul> <li>Make sure both the display and sensor are placed out o direct sunlight and away from any heat sources or vents (see page 9).</li> <li>Make sure both units are positioned away from moisture sources (see page 9).</li> </ul>
Display screen not working	<ul> <li>Check that the power adapter is plugged into the displa and an electrical outlet.</li> <li>Reset the display by pressing the reset button, located on the back of the display. Date and time will need to be entered after a reset</li> </ul>
Atomic signal or time syncing problems	For additional troubleshooting, please visit: http://www.nist.gov/pml/div688/grp40/radioclocks.cfm

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 and 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.

### **Outdoor Sensor Care**

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

### **Calibration**

The indoor/outdoor temperature and humidity readings, and barometric pressure can be calibrated on the display unit 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 "\(\Lambda\)," "SET," and "\(\nabla\)" buttons simultaneously for at least 5 seconds.
- To adjust the currently selected (flashing) item, press and release the "\nabla"
  or "\nabla" buttons to calibrate the data value higher or lower than the actual
  reading.
- 3. To save your adjustments, press and release the "SET" button to adjust the next preference. The ">C" 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 10 seconds. "manual" will appear under the barometric pressure to indicate that manual mode has been activated. Press and HOLD the "SET" button for 10 seconds to return to AUTO mode.

After 10 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**

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% RH
	Indoor: 1% to 99% RH
WIRELESS RANGE	330 ft/100 m depending on home construction materials
OPERATING FREQUENCY	433 MHz
POWER	Display: 5V, 250mA power adapter 3 x AAA alkaline batteries (optional)
	Sensor: 2 x AA alkaline or lithium batteries
DATA REPORTING	Outdoor: 16 second updates
	Indoor: 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

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

7521-125 (778)



## mos. Acutifus at www to su tisiV

- ► Register your Product
- ► Support User Forum

Submit Feedback & Ideas

- ▶ Instruction Manuals soabi Videos
- Replacement Parts

### TO RECEIVE WARRANTY SERVICE PRODUCT MUST BE REGISTERED

## **TNATAO4MI**

## PRODUCT REGISTRATION

mos.etiNusA.www Register online to receive I year warranty protection

so the above limitation or exclusion may not apply to you. exclusion or limitation of incidental or consequential damages, We expressly disclaim 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 sevalusion or limitation of this warranty.

or liability in connection with the sale of our products. Furthermore, no person, find no corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours. or corporation is authorized to bind us to any other obligation consequences arising from their use or misuse. No person, firm We further disclaim liability from personal injury relating to our products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the any of our products, the purchaser assumes all liability for the

products, your purchase or your use thereot, exceed the In no case shall our liability for any claim relating to our

#### Applicability of Policy

Canada, please consult the policies applicable to the country in which you made your purchase. purchases made in a country other than the United States or This Return, Refund, and Warranty Policy applies only to purchases made in the United States and Canada. For

refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist. Additionally, this Policy applies only to the original purchaser of our products. We cannot and do not offer any return,

#### Governing Law

State of Wisconsin. Wisconsin; and purchaser consents to jurisdiction within the This Return, Refund, and Warranhy Policy is governed by the lows of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the desertal or State courts having jurisdiction in Walworth County, before the courts having jurisdiction in Walworth County.

## Limited 1-Year Warranty

forth herein. For purchases of Chaney products, Chaney provides the benefits and services set forth herein. products, AcuRite provides the benefits and services set Instrument Company. For purchases of AcuRite AcuRite is a wholly owned subsidiary of Chaney

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. We warrant that all products we manufacture under this

Period of the year informer and protectives, is proven to product which, under normal use and service, is proven to breach which, under normal use and service, is proven to be breach the warranhy contained herein within OVIE YEAR 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 worranhy will not be breached, and we wail give no credit for products which have received normal been damaged including by acts of mature), tampered, managed including by acts of mature), tampered, managed including by acts of mature), tampered including by acts of mature), tampered and including by acts of mature). In miproperly installed, or repaired or altered by others abused, improperly installed, or repaired or altered by others in the other productions of the production of t

or replacement is not feasible, we may, at our option, refund the amount of the original purchase price. Remedy for breach of this warranty is limited to repair or repair repair

than our authorized representatives.

PURPOSE, AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY

## ACU>RITE







Temperature and Humidity



Weather Alert Radio



Kitchen Thermometers and Timers



Clocks

## It's more than accurate, it's ACUPRITE.

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

www.AcuRite.com