ACU▸RITE®

Weather Station
model 02099 / 264515

CONTENTS

Questions? Contact Customer Support at
info@chaney-inst.com.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

ACU▸RITE®

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. Power Adapter
4. Instruction Manual

Features and Benefits

OUTDOOR SENSOR

1. **Integrated Hanger**
   For easy placement.

2. **Wireless Signal Indicator**
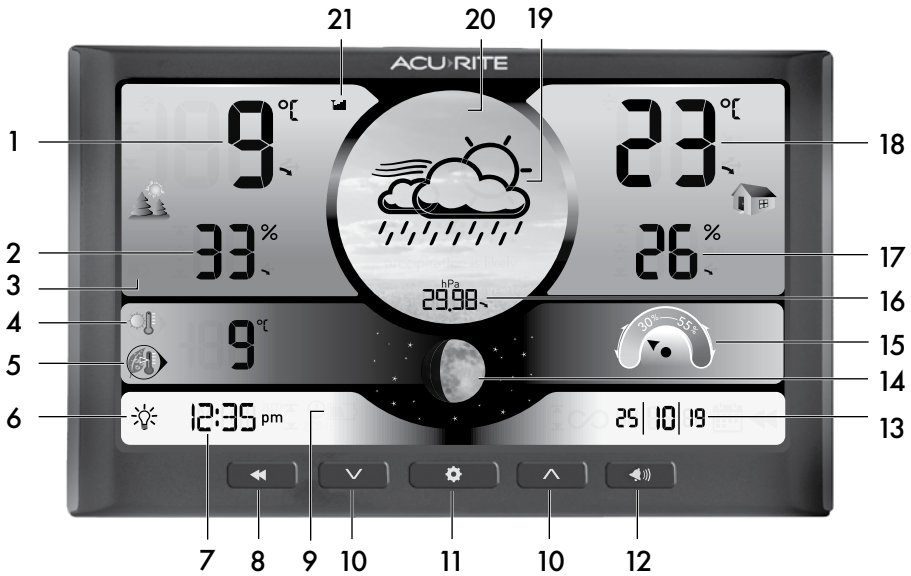   Flashes when data is being sent to the display.

3. **Battery Compartment**

4. **A-B-C Switch**
   ID code that must match display's A-B-C switch to ensure units synchronize.
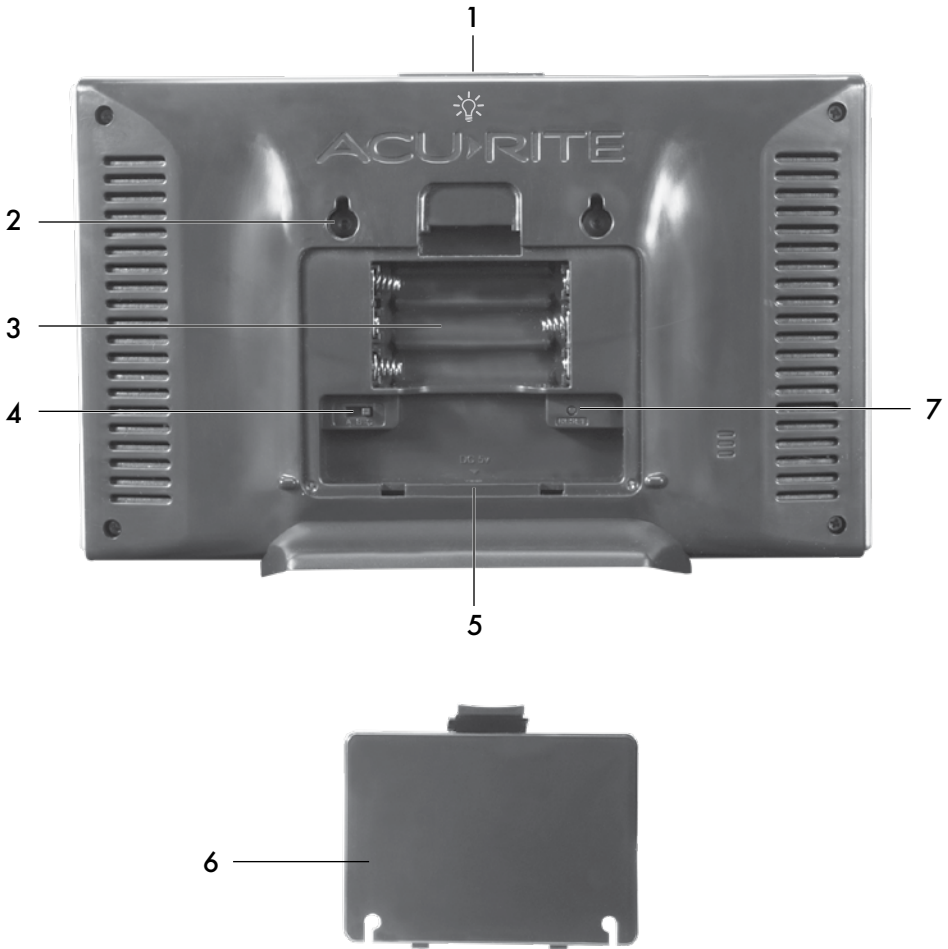
5. **Battery Compartment Cover**

Features and Benefits

DISPLAY FRONT

1. **Current Outdoor Temperature**
   Arrow icon indicates direction temperature is trending.

2. **Current Outdoor Humidity**
   Arrow icon indicates direction humidity is trending.

3. **Sensor Low Battery Indicator**

4. **Heat Index**
   Displays heat index calculation when temperature is 27 °C (80 °F) or higher.

5. **Dew Point**
   Displays dew point calculation when temperature is 26 °C (79 °F) or lower.

6. **Icon**
   Indicates display is in auto-dimming brightness mode (see page 7).

7. **Clock**

8. **◀◀ Button**
   For viewing high and low records.

9. **Display Low Battery Indicator**

10. **∧ and ∨ Buttons**
    For setup preferences.

11. **⚙ Button**
    For setup preferences.

12. **◀)) Button**
    For alarm setup.

13. **Date**

14. **Moon Phase**

15. **Humidity Level Indicator**
    Indicates a high, low or ideal humidity comfort level.

16. **Barometric Pressure**
    Arrow icon indicates the direction pressure is trending.

17. **Current Indoor Humidity**
    Arrow icon indicates direction humidity is trending.

18. **Current Indoor Temperature**
    Arrow icon indicates direction temperature is trending.

19. **12 to 24 Hour Weather Forecaster**
    Self-Calibrating Forecasting pulls data from the outdoor sensor to generate your personal forecast.

20. **Icon**
    Disappears after weather forecast self-calibration is complete (see page 9).

21. **Sensor Signal Strength**

Features and Benefits

DISPLAY BACK

1. Backlight Button
For momentary backlight and dimmer settings.

2. Integrated Hang Holes
For easy wall mounting.

3. Backup Battery Compartment

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

5. Plug-in for Power Adapter

6. Battery Compartment Cover

7. RESET Button
Full reset to factory defaults.

8. Power Adapter
(not shown)

Sensor Setup

❶ 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.

❷ Install or Replace Batteries

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

1. Slide off the battery compartment cover. Take note of the A-B-C switch setting inside the battery compartment for display setup.

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.

❶ **A-B-C Switch**
Set to match display

A B C

❷ **Install Batteries**
2 AA batteries

Display Setup

❶ 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.

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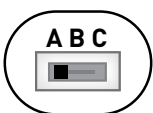
1. Remove the battery compartment cover.

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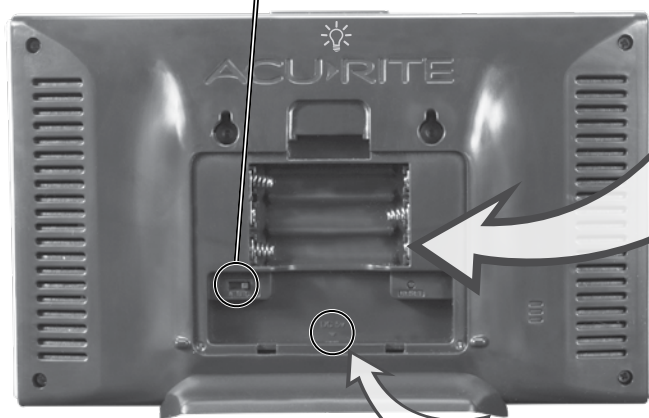
3. Replace the battery cover.

❸ Plug in Power Adapter

For the best performance, plug in the power adapter as the main power source for this product.

❶ **A-B-C Switch**
Set to match sensor

A B C

❷ **Install Batteries**
3 AAA Batteries (optional)

🔋 AAA 🔋
🔋 AAA 🔋
🔋 AAA 🔋

❸ **Plug in Power Adapter**

IMPORTANT: Batteries are a backup power source to preserve records in the event of a power outage. **Power adapter is recommended as the 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 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 recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.

Set the Time, Date and Units

Press and release the "⚙" 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 "∨" buttons (press and HOLD to fast adjust).

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

Auto DST (Daylight Saving Time ⏱ ON of OFF)*
CLOCK HOUR
CLOCK MINUTE
CALENDAR MONTH
CALENDAR DATE
CALENDAR YEAR
TEMPERATURE UNITS (°C or °F)
BAROMETRIC PRESSURE UNITS (hPa or inHg)

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

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

Display Backlight Settings

This weather station's colour display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (15%) brightness.

Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the Backlight button.

When display is powered with the power adapter, backlight remains on at 100% brightness. Press Backlight button once to dim to 60% brightness; press again to dim to 15%, press a 3rd time to enter AUTO DIM mode.

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.

AUTO DIM MODE: Automatically adjusts display brightness based on time of day.
7:00 a.m. - 9:00 p.m. = 100% brightness
9:01 p.m. - 6:59 a.m.= 15% brightness

Placement for Maximum Accuracy

AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and 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 and 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 hole 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 1 to 2 metres (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 any heat sources or vents.

• Display and outdoor sensor must be within 100 m (330 ft) 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 90 cm (3 ft) away from electronic devices (TV, computer, microwave, radio, etc.).

TV

90 cm
(3 feet)

(100 metres maximum)
(330 feet)
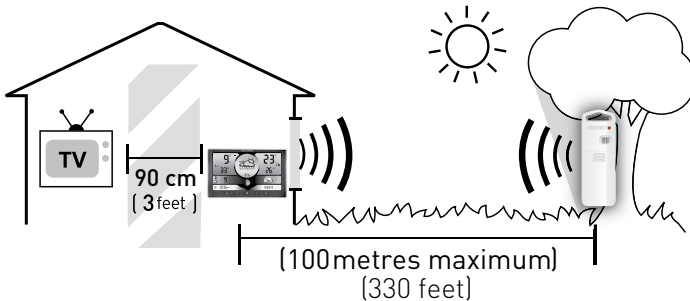
Setup is Complete

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 (✷) 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.

STORMY & WINDY	SNOW LIKELY	SNOW / RAIN MIX LIKELY	CHANCE OF RAIN	CLOUDY
(flashing=stormy)				

Moon Phase

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

NEW	WAXING CRESCENT	1ST QUARTER	FULL	3RD QUARTER	WANING CRESCENT
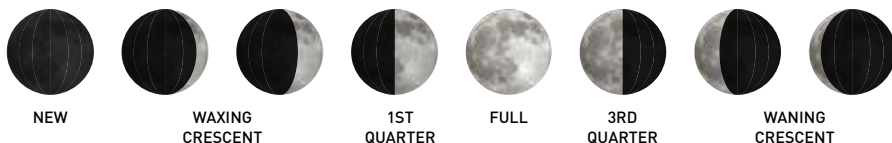
Barometric Pressure

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 and Low Records

High and low records for today and all-time are displayed for indoor and outdoor temperature and humidity. Today's records automatically clear at 12:00am midnight every day.

Press the ◄◄ button to cycle through high and low recorded values for outdoor and indoor temperature and humidity. While viewing all-time records, a date and timestamp are shown for when each value was recorded. You will automatically exit records if no buttons are pressed for 8 seconds.

To manually clear a HIGH or LOW record, press and HOLD both the "∧" and "∨" buttons simultaneously for 3 seconds while viewing the record(s) you wish to clear. Dashes display to confirm you have cleared the record(s).

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 "∨" or "∧" buttons until "◀))" appears.
3. Press and release the "⚙" button. The current HIGH alarm value will be shown.
3. Press and release the "∧" or "∨" buttons to adjust the alarm's HIGH value.
4. Press and release the "⚙" button. The current LOW alarm value will be shown.
5. Press and release the "∨" or "∧" buttons to adjust the alarm's LOW value.
6. Press and release the "⚙" button to end alarm adjustments, OR press and release the "◀))" button to cycle to the next reading.

Disable an Alarm

1. 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

No outdoor sensor reception 📶 no bars	If the wireless signal indicator shows no bars: • Relocate the display and/or the outdoor sensor. The units must be within 100 m (330 ft) of each other. • Make sure both units are placed at least 90 cm (3 feet) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc). • Use standard alkaline batteries. 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.
Display screen not working	• Check that the power adapter is plugged into the display and an electrical outlet.
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 at least one battery from each. 2. Make sure the A-B-C switch on both units match. 3. Reinstall the batteries in the outdoor sensor. 4. Reinstall the 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 temperature or humidity	• Make sure both the display and sensor are placed out of direct sunlight and away from any heat sources or vents (see page 8). • Make sure both units are positioned away from moisture sources (see page 8).

If your AcuRite product does not operate properly after trying the troubleshooting steps, email info@chaney-inst.com 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 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 "∨" buttons simultaneously for at least 5 seconds.

2. To adjust the currently selected (flashing) item, press and release the "∧" or "∨" buttons to calibrate the data value higher or lower from the actual reading.

3. To save your adjustments, press and release the "⚙" 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 "⚙" button for 10 seconds. The "⌐ᶜ" icon will appear next to the barometric pressure to indicate that MANUAL mode has been activated. Press and HOLD the "⚙" button for 10 seconds to return to AUTO mode.

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

TEMPERATURE RANGE	Outdoor: -40ºC to 70ºC; -40ºF to 158ºF
	Indoor: 0ºC to 50ºC; 32ºF to 122ºF
HUMIDITY RANGE	Outdoor: 1% to 99%
	Indoor: 1% to 99%
WIRELESS RANGE	100 m/330 ft 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
DATA REPORTING	Outdoor Data: 16 second updates
	Indoor Data: 60 second updates

FCC Information

Hereby, AcuRite, declares that this Weather Station is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC

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.

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 way:

✉ info@chaney-inst.com

WARRANTY POLICY

AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products from one of our official retailers, AcuRite provides the benefits and services set forth herein. For purchases of Chaney products from one of our official retailers, Chaney provides the benefits and services set forth herein. The benefits given by this warranty policy are in addition to your statutory rights in relation to your product(s) and those rights are not affected by this policy. For further information about your statutory rights contact your local authority Trading Standards Department of Citizens' Advice Bureau.

Important Information

Our products are sold by our official retailers and subject to your legal rights. This policy is in addition to, and not instead of, those legal rights. You are entitled to a replacement or refund for a major failure and may be entitled to compensation for any other reasonably foreseeable loss or damage. Loss is foreseeable where it could be contemplated by you and us at the time the goods are supplied. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This does not affect your statutory rights. For further information about your statutory rights contact your local authority Trading Standards Department of Citizens' Advice Bureau.

We expressly disclaim all liability for any loss or damage, whether arising in tort/delict or by contract from any breach of this warranty which is an indirect loss which happens as a side effect of the main loss or damage and which is not foreseeable by you or us; for any loss or damage not caused by us; and

for any loss or damage to business or non-consumers. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their misuse. No person, firm or corporation (other than our duly authorized agent) is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm or corporation (other than our duly authorized agent) is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

Applicability of Policy

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

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

If any term is held to be unenforceable, it shall be excluded from the warranty and the legality and enforceability of the remaining terms shall not be affected.

Governing Law

This Return, Refund, and Warranty Policy is governed by the laws of the laws of England unless you live in Scotland in which case the laws of Scotland will apply. Any dispute relating to this Policy shall be brought in the relevant court of the part of the United Kingdom which has jurisdiction, for example – where you reside.

ACU▸RITE®

Weather Stations	Temperature and Humidity	Weather Alert Radio	Kitchen Thermometers and 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™.