

### Atomic Dual Alarm Clock models 13022 / 13035



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**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. Alarm clock
2. Outdoor sensor
3. Power adapter
4. Instruction Manual

## IMPORTANT

PRODUCT MUST BE REGISTERED  
TO RECEIVE WARRANTY SERVICE

### PRODUCT REGISTRATION

Register online  
to receive 1 year  
warranty protection

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## Features & Benefits



## OUTDOOR SENSOR

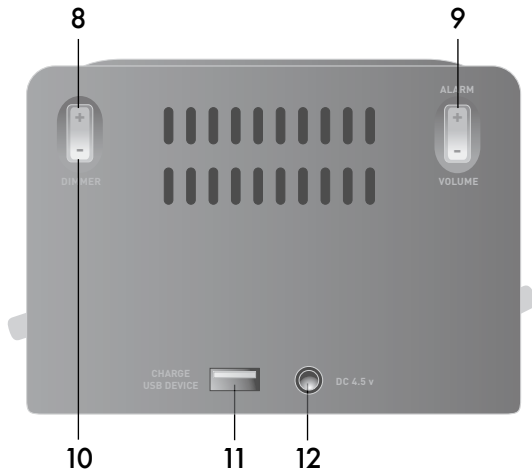
- 1. Integrated Hanger**  
for easy placement.
- 2. Wireless Signal Indicator**  
Flashes when data is being sent to the clock.
- 3. Battery Compartment**
- 4. A-B-C Switch**  
ID code that must match clock's A-B-C switch to ensure units synchronize.
- 5. Battery Compartment Cover**

# Features & Benefits



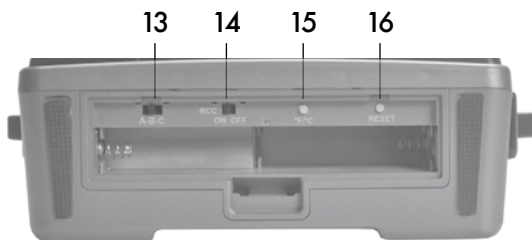
## FRONT OF CLOCK

- 1. Snooze Button/Night Light**
- 2. Alarm #1 ON/OFF Switch**
- 3. Alarm #1 Setup Button**
- 4. DOWN & SET Buttons**  
for setup preferences.
- 5. UP Button**  
Toggles between displaying indoor & outdoor temperature and used for setup preferences.
- 6. Alarm #2 Setup Button**
- 7. Alarm #2 ON/OFF Switch**



## BACK OF CLOCK

- 8. + Brightness Button**  
Increases display brightness.
- 9. +/- Alarm Volume**  
Adjusts alarm volume.
- 10. - Brightness Button**  
Decreases display brightness.
- 11. USB Charging**  
for compatible smartphones.
- 12. DC 5v Power Input**

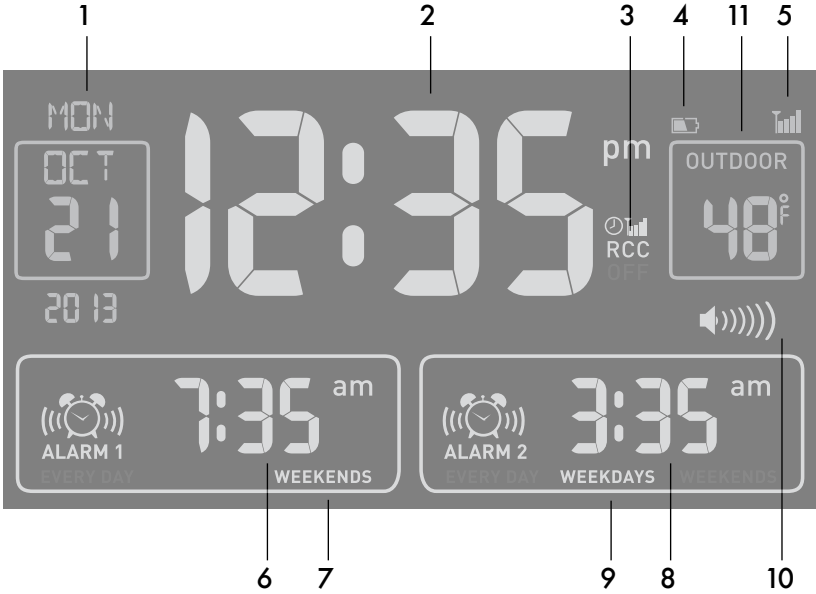


## BOTTOM OF CLOCK

(inside battery compartment)

- 13. A-B-C Switch**  
ID code that must match sensor's A-B-C switch to ensure units synchronize.
- 14. RCC ON/OFF Switch**  
Controls synchronization with the atomic signal.
- 15. °F/°C Temperature Units**
- 16. Reset Button**  
Full reset to factory defaults.

# Features & Benefits



## 1. Date

## 2. Atomic Clock

Sets itself to the correct time and automatically updates for Daylight Saving Time.

## 3. Atomic Signal Strength

## 4. Outdoor Sensor Low Battery Icon

## 5. Outdoor Sensor Signal Strength

## 6. Alarm #1 Time

## 7. Alarm #1 Days Active

Indicates weekday, weekend or every day alarm.

## 8. Alarm #2 Time

## 9. Alarm #2 Days Active

Indicates weekday, weekend or every day alarm.

## 10. Alarm Volume

## 11. Indoor or Outdoor Temperature

## Sensor Setup

### 1 Set the A-B-C Switch

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

### 2 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  $-4^{\circ}\text{F}$  /  $-20^{\circ}\text{C}$ .

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



# Clock Setup

## 1 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 clock and the sensor in order for the units to synchronize.

## 2 Plug in Power Adapter

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

## 3 Install or Replace Backup Batteries

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

### 1 A-B-C Switch set to match sensor



### 2 Plug in Power Adapter (on back of unit)



### 3 Install or Replace Backup Batteries 3 AA alkaline batteries

**IMPORTANT:** Batteries are a backup power source to preserve records in the event of a power outage. **Power adapter recommended as the primary power source to enjoy the full functionality of the 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 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.

## Atomic Clock (RCC)

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.

When the RCC button, located under the battery compartment cover, is set to ON, the clock will automatically search for the atomic clock signal.

To manually search for the atomic signal, make sure the RCC button is set to ON, then press AND HOLD the “^” button.

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 clock.

## Set the Time & Date

Press and hold the “⚙️” button, located on the front of the clock, to enter SET MODE. Once in SET MODE the preference you are currently setting will blink on the clock.

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

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

TIME ZONE (PST MST CST EST AST HAST AKST)  
AUTO DST ON/OFF\*  
CLOCK HOUR  
CLOCK MINUTE  
CALENDAR MONTH  
CALENDAR DATE  
CALENDAR YEAR

You will automatically exit SET MODE if no buttons are pressed for 5 seconds. Enter SET MODE at any time by pressing the “⚙️” button.

\*If you live in an area that observes daylight saving time, DST should be set to ON.

## Placement for Maximum Accuracy

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



### Alarm Clock Placement

Place alarm clock in a dry area free of dirt and dust. To help ensure an accurate indoor temperature measurement, be sure to place the clock away from heat sources or vents.



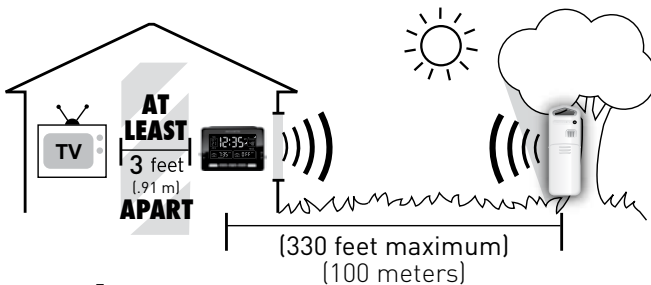
### Outdoor Sensor Placement

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 any heat sources or vents.
- Clock 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 (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.).



## Setup is Complete

The sensor will now synchronize with the clock. It may take a few minutes for synchronization to complete.



## Using the Clock

### Set the Alarm Time

Slide Alarm #1 and/or Alarm #2 switch ON (alarm time cannot be adjusted if the alarm is OFF).

Press and release the “⌘ ⌚1” or the “⌘ ⌚2” button to enter ALARM SET MODE.

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

To save your adjustments, press and release the “⌘ ⌚1” or “⌘ ⌚2” button to adjust the next preference. The preference set order is as follows:

ALARM CLOCK HOUR

ALARM CLOCK MINUTE

ALARM EVERY DAY or WEEKDAY ONLY or WEEKEND ONLY

You will automatically exit ALARM SET MODE if no buttons are pressed for 5 seconds. Enter ALARM SET MODE at any time by pressing the “⌘ ⌚1” or “⌘ ⌚2” button.

### Backlight

During power adapter use, press the Snooze button for momentary backlight at 100% brightness. During battery-powered use, press any button for momentary backlight.

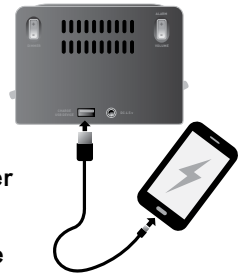
The backlight MAY turn off at 2:00AM and 3:00 AM to acquire the atomic clock (RCC) signal.

### USB Charging


Charge your mobile device by plugging your device's USB power cord (not included) into the USB charging port on the back of the clock.

USB charging is only available during power adapter use; USB charging is not active when operating on battery power only.

Note: Follow the manufacturer's instructions for your mobile device(s) to determine compatibility with the USB charging feature on this product. Some devices may not support USB charging or may require a higher power rating than this product provides. Observe the charging status on your device. Ensure your device is working properly before attempting to charge.



# Troubleshooting

<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 clock 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 up to 20 minutes for clock and sensor to synchronize after batteries are replaced.</li> </ul>
<p><b>Clock is too dark, hard to read or doesn't work</b></p>	<ul style="list-style-type: none"> <li>• The backlight may automatically turn off for 10 minutes at 2:00am and 3:00am to acquire the atomic clock signal.</li> <li>• Verify power adapter is plugged in.</li> <li>• Check that the batteries are installed correctly. Batteries may need to be replaced.</li> <li>• Increase brightness using +/- buttons, located on the back of the clock.</li> <li>• The optimum viewing angle for this product is from slightly above it.</li> <li>• Reset the unit by pressing the reset button, located on the bottom of the clock.</li> </ul>
<p><b>Inaccurate temperature</b></p>	<ul style="list-style-type: none"> <li>• Make sure both the clock and sensor are placed out of direct sunlight and away from any heat sources or vents (see page 8).</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>1. Bring both the sensor and clock indoors, side by side and remove batteries from each.</li> <li>2. Make sure the A-B-C switch on both units match.</li> <li>3. Reinstall batteries in outdoor sensor.</li> <li>4. Reinstall batteries in clock.</li> <li>5. Let the units sit within a couple feet of each other for about 20 minutes to gain a strong connection.</li> </ol>
<p><b>Atomic signal or time syncing problems</b></p>	<p>For additional troubleshooting, please visit:  <a href="http://www.nist.gov/pml/div688/grp40/radioclocks.cfm">http://www.nist.gov/pml/div688/grp40/radioclocks.cfm</a></p>

**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

## Clock 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 99°F; 0°C to 37°C
<b>WIRELESS RANGE</b>	330 ft / 100 m depending on home construction materials
<b>OPERATING FREQUENCY</b>	433 MHz
<b>POWER</b>	Clock: 5v power adapter 3 x AA alkaline batteries (for backup only)
	Sensor: 2 x AA alkaline or lithium batteries
<b>DATA REPORTING</b>	Outdoor data: 16 second updates
	Indoor data: 60 second updates

## FCC Information

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

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

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

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

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and the receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

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

## Customer Support

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



(877) 221-1252



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

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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](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



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