

Atomic Clock

model 75440L

ACURITE®



IMPORTANT

PRODUCT MUST BE REGISTERED
TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

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SAVE THIS MANUAL FOR FUTURE REFERENCE.

Introduction

An Atomic clock is a timepiece that maintains accuracy up to one second per million years using the most precise method of time synchronization, radio signals.

In North America, the National Institute of Standards and Technologies (NIST) operates an Atomic clock in Fort Collins, Colorado, that transmits the time codes via the radio station WWVB.

This quality AcuRite clock includes a built-in receiver that picks up this Atomic radio signal from WWVB. To maintain the best possible reception, place the unit so that the backside faces in the general direction of the state of Colorado.

IMPORTANT

Due to solar radiation present in the atmosphere during the day, the Atomic Clock Signal (RCC Signal) has more success being acquired at night. We recommend manually setting the clock initially to ensure you can begin using it right away. After initially setting the clock the clock will automatically attempt to acquire the RCC signal every night to maintain accuracy AND to automatically change the time twice a year for Daylight Saving Time (DST)*

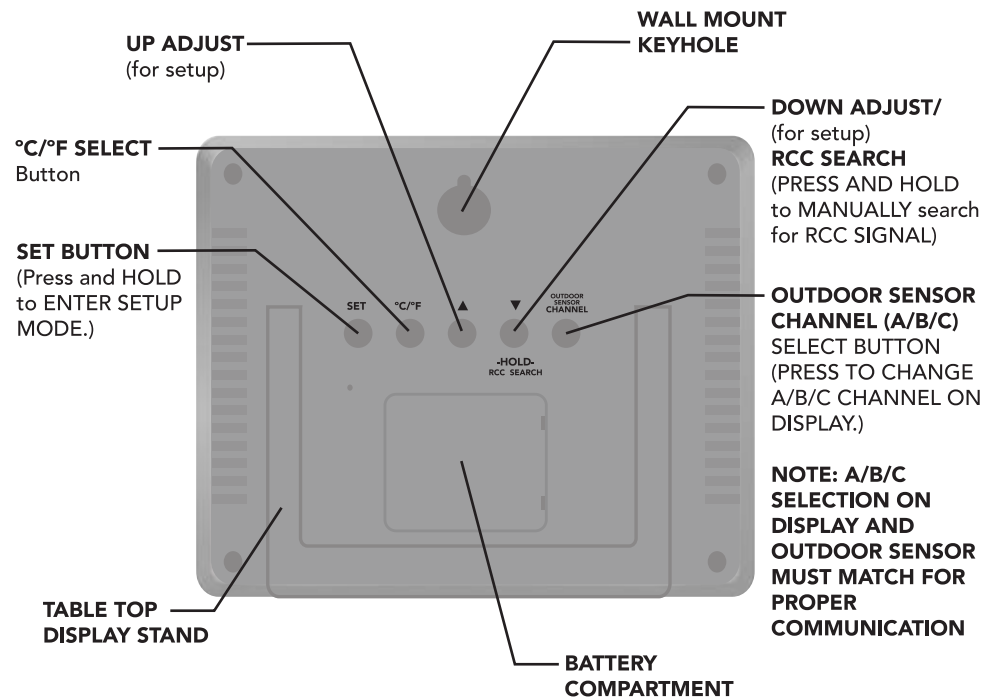
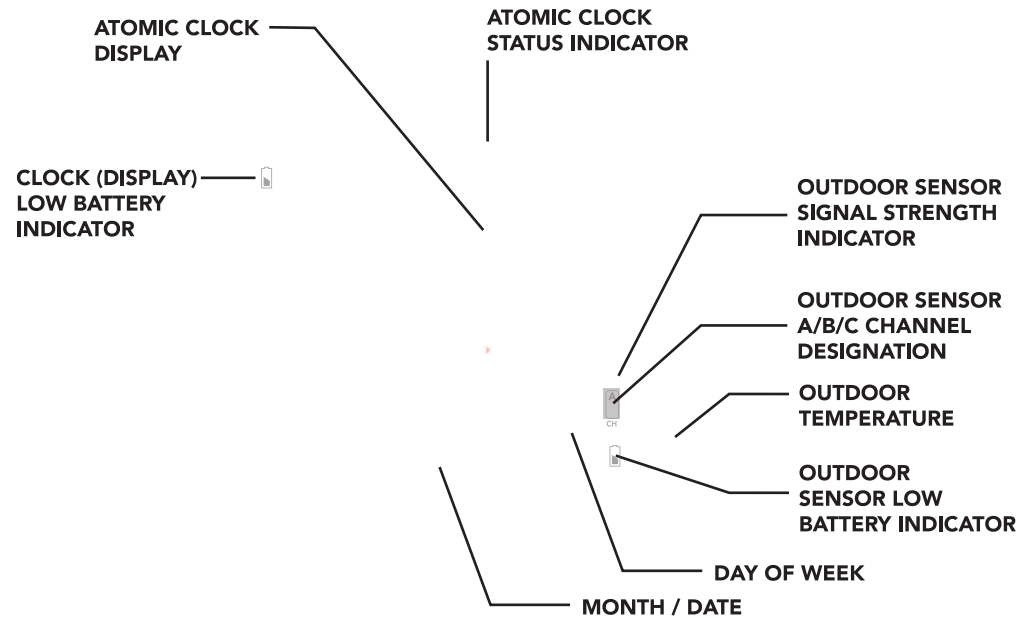
Parts List

1. Display console
2. Wireless outdoor sensor

What You Need

- 5 x AA Batteries (not included)
- 3 x AA Batteries for the clock
 - 2 x AA Batteries for the outdoor sensor

Display Features



Battery Choice & Temperature Range

Extended periods of cold temperatures (below -4°F / -20°C) can cause alkaline batteries to function improperly. This will cause the outdoor wireless sensor to stop transmitting temperature readings. Use lithium batteries in these low temperature conditions to ensure continued operation for wireless sensors placed outdoors.

LITHIUM BATTERIES **-40°F** (-40°C) (70°C) **158°F**

ALKALINE BATTERIES **-4°F** (-20°C) (70°C) **158°F**

A/B/C Wireless Channel Selection

To allow for more than one weather station and wireless sensor network to be used in close proximity, the wireless sensor has a small switch labeled "A/B/C" within the battery compartment. The display has a "CH: A/B/C" selection indicator on the display. Both selections **MUST** be set in matching positions (either A, B, or C) for wireless communication to take place successfully.

Installing Batteries - Wireless Sensor

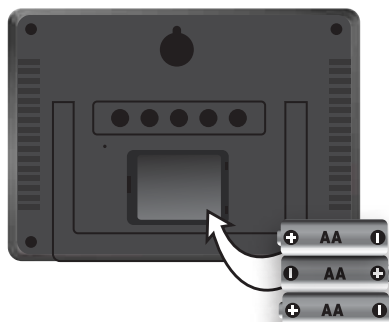
Remove the battery compartment cover. Install 2 fresh "AA" batteries as shown here.

IMPORTANT: NOTE the position of the A/B/C CHANNEL SWITCH located in the battery compartment.



Installing Batteries - Display Console

Remove the battery compartment cover. Install 3 fresh "AA" batteries as shown here.



About the Atomic Clock

Due to solar radiation present in the atmosphere during the day, the Atomic Clock Signal (RCC Signal) has more success being acquired at night. We recommend manually setting the clock initially to ensure you can begin using it right away. After initially setting the clock it will automatically attempt to acquire the RCC signal every night to maintain accuracy AND to automatically change the time twice a year for Daylight Saving Time (DST)*

Display Console : Basic Setup

Press and hold the "SET" button to enter into set mode.

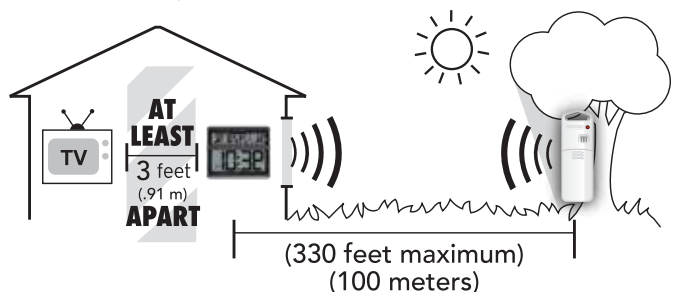
To adjust the currently selected (flashing) preference item, press and release the "▲" or "▼" buttons. To save your adjustments, press and release the "SET" button again to move on to adjusting the next preference. The preference set order is as follows:

- RCC CLOCK FUNCTION (ON or OFF)
- TIME ZONE (PST MST CST EST NST AST HST AKT)
- AUTO CHANGE FOR DST/Daylight Saving Time (YES or NO)
- CALENDAR YEAR
- CALENDAR MONTH
- CALENDAR DATE
- CLOCK 12/24 HOUR
- CLOCK HOUR
- CLOCK MINUTE

You will automatically exit SET MODE if no entries are changed for 10 seconds. You may enter basic setup mode again at any time by pressing and releasing the "SET" button.

Now that setup is complete, you must choose a location to place the wireless sensor and the display console. The wireless sensor **MUST** be placed less than 330 feet (100 meters) away from the display console.

This wireless clock uses radio frequency for communication, which is susceptible to interference from other electronic devices and large metallic items or thick walls. Always place both units at least 3 feet (.91 m) away from appliances (TV, microwave, radios, etc.) or objects that may interfere with the wireless communication (large metal surfaces, thick stone walls, etc.).




Placement of Display Console

Place the display console in a dry area free of dirt and dust. To help ensure an accurate indoor temperature measurement, be sure to place the display console out of direct sunlight, and away from any heat sources or vents in your home. There are 2 placement options for the display console. You may hang the main unit on a wall using the integrated hang hole. Alternatively, you may place the main unit on a table top or other flat surface using the integrated fold-out table top display stand.

Placement of Sensor

The wireless sensor **MUST BE PLACED OUTDOORS** to observe outdoor temperatures. The wireless sensor must be placed less than 330 feet (100 meters) from the display console. The wireless sensor is water resistant and is designed for general outdoor use. However, to extend the life of the product, place the wireless sensor in an area protected from direct weather elements. To ensure an accurate outdoor temperature measurement, be sure the wireless sensor is placed out of direct sunlight and away from any heat sources.

There are 2 placement options for the wireless sensor. You may hang it using one of the two integrated hang holes, or use string (not included) to hang it from a suitable location like a well covered tree branch.

Problem	Possible Solution
<p>Bad Wireless Sensor Reception</p> 	<p>Relocate the main unit and/or the wireless sensor. Both units must be within 330 feet (100 meters) from each other. Make sure both units are placed at least 3 feet (.91 m) from other electronic appliances and devices that may interfere with the wireless communication (such as TV's, microwaves, computers etc). NOTE: It may take up to 20 minutes for the main unit to re-synchronize with the sensor when batteries are replaced. Use lithium batteries in sensor when temperature is below -4°F (-20°C).</p>
<p>Display Console Screen Not Working</p>	<p>Batteries may need replacing Check that batteries are correctly installed</p>

NOTICE: If the display fails to start properly, press the reset button located on the back of the display unit. Please note that the date and time information will need to be entered after a reset.

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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.

LIMITED ONE YEAR WARRANTY

Chaney Instrument Company warrants that all products it manufactures to be of good material and workmanship and to be free of defects if properly installed and operated for a period of one year from date of purchase. REMEDY FOR BREACH OF THIS WARRANTY IS EXPRESSLY LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE ITEMS. 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. In all cases, 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 shall have received normal wear and tear, been damaged, 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 EQUIPMENT OR 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 repair, please contact:
Customer Care Department
Chaney Instrument Company
965 Wells Street
Lake Geneva, WI 53147

This device complies with part 15 of the 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.

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.

Patent numbers: 5,978,738; 6,076,044; 6,597,990; US 7,637,141 B2

SPECIFICATIONS

Product Facts

Batteries: 5 x "AA" (not included)
Lithium Batteries Recommended below -4°F

Measurement Ranges

Outdoor Temperature: -40°F to 158°F
-40°C to 70°C

Indoor Temperature: 32°F to 122°F
0°C to 50°C

Wireless Range: 330 ft / 100m MAX

Depending on home construction materials

For best accuracy & performance, place the wireless sensor in a location protected from direct sunlight and precipitation.

MADE IN CHINA HECHO EN CHINA