ACURITE 75077 Wireless Weather Station with Forecast and Atomic Clock Instruction Manual

ACURITE 75077 Wireless Weather Station with Forecast and Atomic Clock Instruction Manual

Package Contents:

- Main Unit [Al
- Wireless Sensor [Bl
- Hardware Bag
- Instruction Manual

What You Need

- Philips Screwdriver

- [5l AA batteries

A. Main Unit

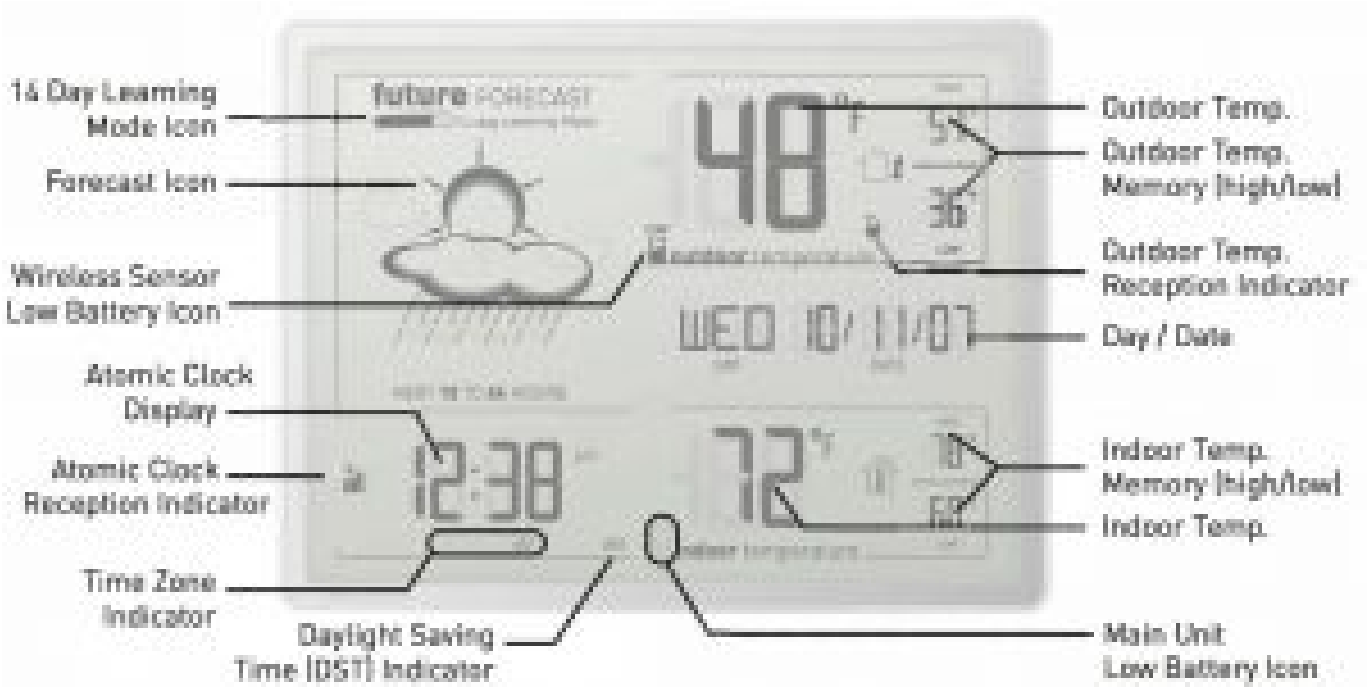
Wireless Sensor

hank You for purchasing this ACURITE® product. This wireless weather station features indoor and outdoor temperature, indoor and outdoor temperature memory (daily high/low), weather forecast, day and date display and an atomic clock. Please read this manual in it's entirety to fully enjoy the benefits and features of this product. Please keep this manual for future reference.

NOTE: A clear film is applied to the LCD at the factory that must be removed prior to using this product. Locate the clear tab and simply peel to remove.

Contents

OVERVIEW OF FEATURES



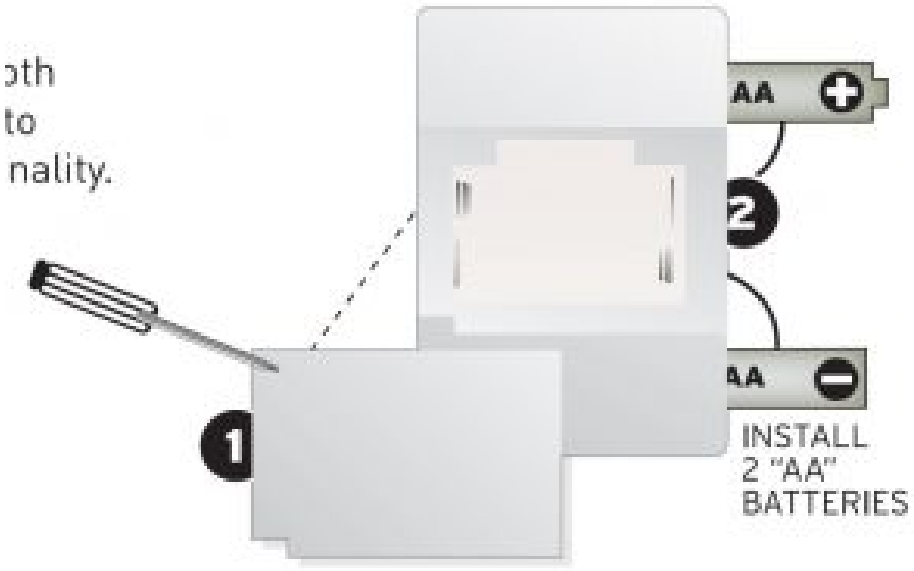
About the Atomic Clock

A clock is considered atomic if it has an accuracy of one second in a million years. Consumer clocks are considered atomic if they attain this accuracy by receiving a signal from an atomic clock. In North America, the National Institute of Standards and Technologies operates an atomic clock in Colorado which transmit the time codes via the the radio station WWVB. The signal is transmitted in a very low frequency [60,000 Hz]. The Acurite® clock you have purchased includes a built-in receiver which picks up the signal from the WWVB station. Due to solar radiation in the atmosphere, the atomic clock signal is weak during the day. Most synchronization with the WWVB atomic clock signal happens at night when there is less interference.

SETUP

Install Batteries

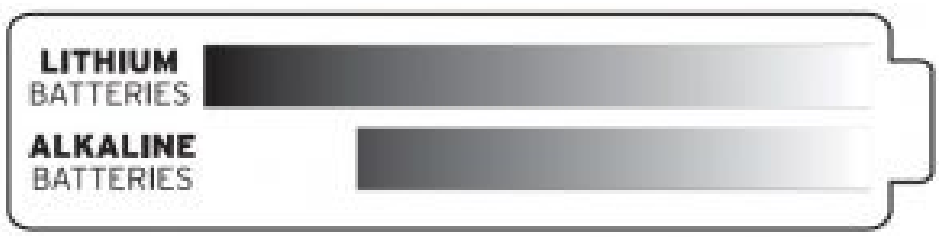
NOTE: Install all batteries in both 0 units within a 6 minute period to ABC ,ensure proper wireless functionality.



1. **WirelessSensor**
    1. Remove the 4 battery compartment screws. ,
    2. Remove the battery compartment cover and install 2 fresh ‘”AA” . BATTERIES (batteries as shown here. **Always install batteries into the wireless unit FIRSTt** o ensure proper wireless synchronization with the main unit.
2. **Main Unit**

    Remove the battery compartment cover andinstall 3 fresh “AA” batteries as shown here.

Operating Range of Batteries



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.

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

BATTERYSAFETY: Follow the polarity(+/·) diagram in the battery compartment. Promptly dead batteries from the device. remove Disposeof used batteries Only batteries or equivalent properly. of the same type as recommended DO NOT are to be used. incinerateused batteries.DO NOT disposeof batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteriesor types of batteries (alkaline/standard).NOT DO use rechargeable DO recharge batteries. NOT non-rechargeablebatteries.DO NOT short-circuitthe supply terminal

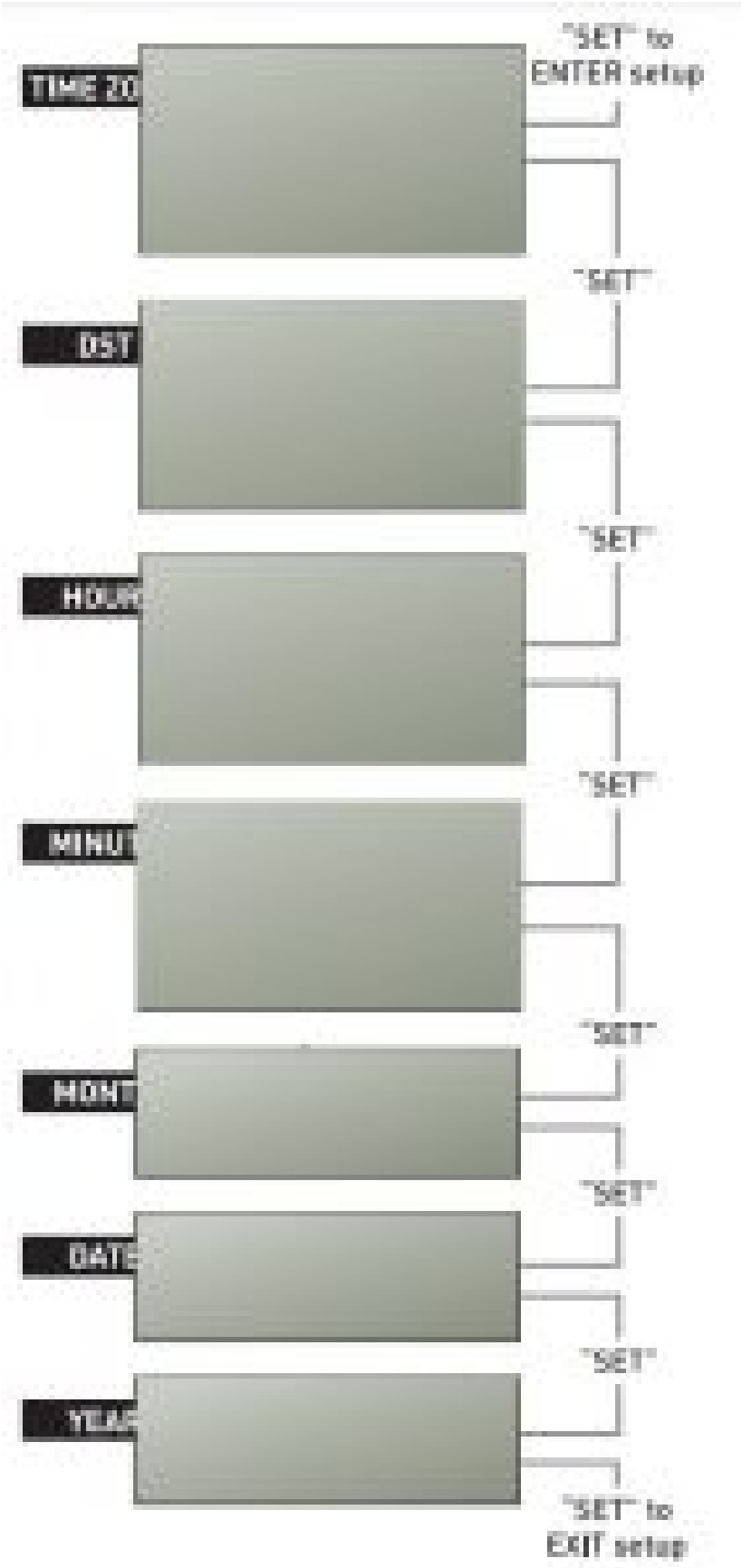
Select Celsius (°C] or Fahrenheit (°F]

To select either °For °C, push the “°F/°C” button located on the back to the desired measurement unit.

select °C or °F temperature display

Main Unit : Basic Setup

After installing batteries, set the timezone, time, and DST [daylight saving time) preferences. After the initial manual time setting, the atomic clock will maintain ifs accuracy and adjust for DST automatically.



The main unit will automatically enter into setup mode for 30 seconds after the batteries are installed. After 30 seconds, you may enter into setup mode by pressing the “SET” button at any time.

When first entering basic setup mode, the time zone will be flashing [default is PST]. Adjust the time zone using the”+” or .”-“buttons on the back of the main unit, then press the “SET” button to confirm your time zone selection and move on.

Now select DST [daylight saving time) “on” or “off’ by pressing the”+” or .._.. buttons on the back of the main unit. Press the “SET” button to confirm your DST selection.

Next, adjust the HOUR by pressing the “+”or . buttons on the back of the main “SET” unit. Press the “SET” button to confirm your HOUR selection and to move on toDAY MINUTE setting. Again, adjust the MINUTE “SET” by pressing the”+” or .._.. buttons.

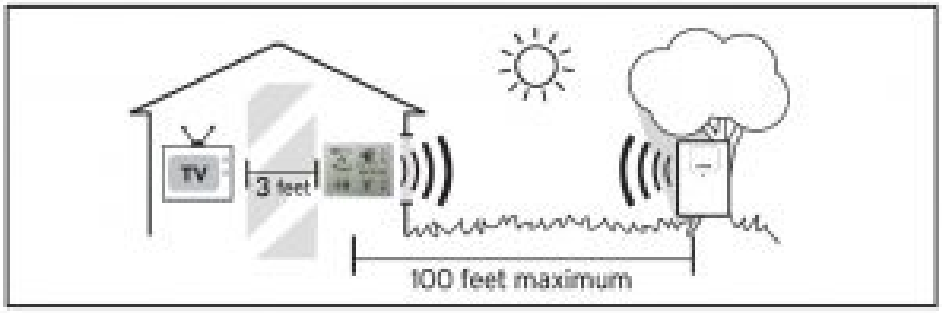
Finally, adjust the DATE using the”+” or .. -” buttons on the back of the main unit. Press the “SET” button to move through setting each DATE number [month/date/ year].

Press the “SET” button one more time to exit basic setup mode. You may enter basic setup mode at any time by pressing the “SET” button.

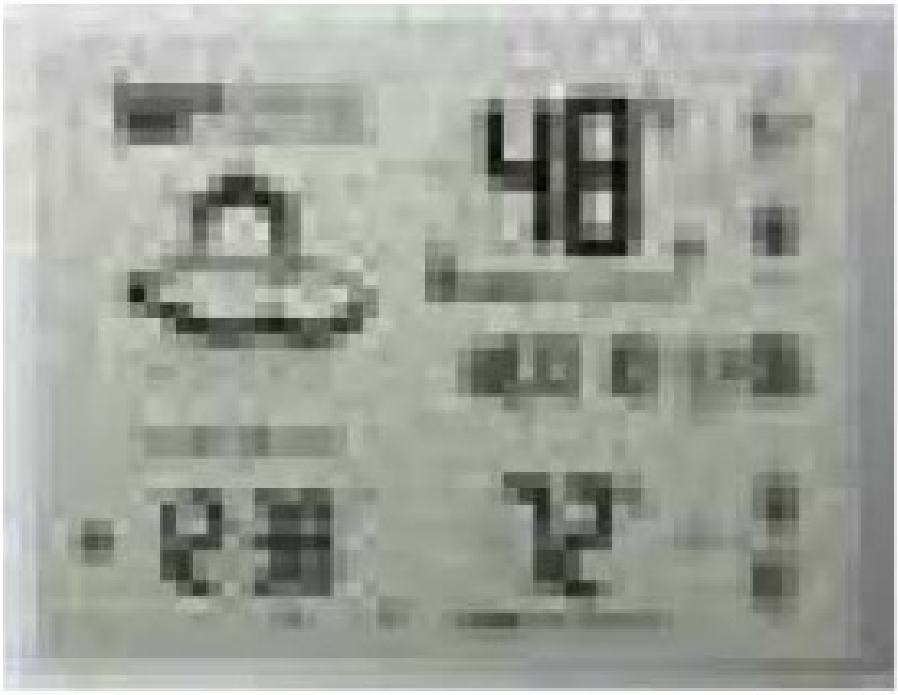
PLACEMENT

Now that setup is complete, you must choose a location to place the wireless sensor and the main unit. The wireless sensor MUST be placed less than 100 feet away from the main unit.

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



Placement of Main Unit



Place the main unit in a dry area free of dirt and dust. To help ensure an accurate indoor temperature measurement, be sure to place the main unit out of direct sunlight, and away from any heat sources or vents in your home.

There are 2 placement options for the the main unit. You may hang the main unit on a wall using the integrated hang hole on the back. Alternatively, you may use the fold out “table stand” to place the main unit on a table top or other flat surface.

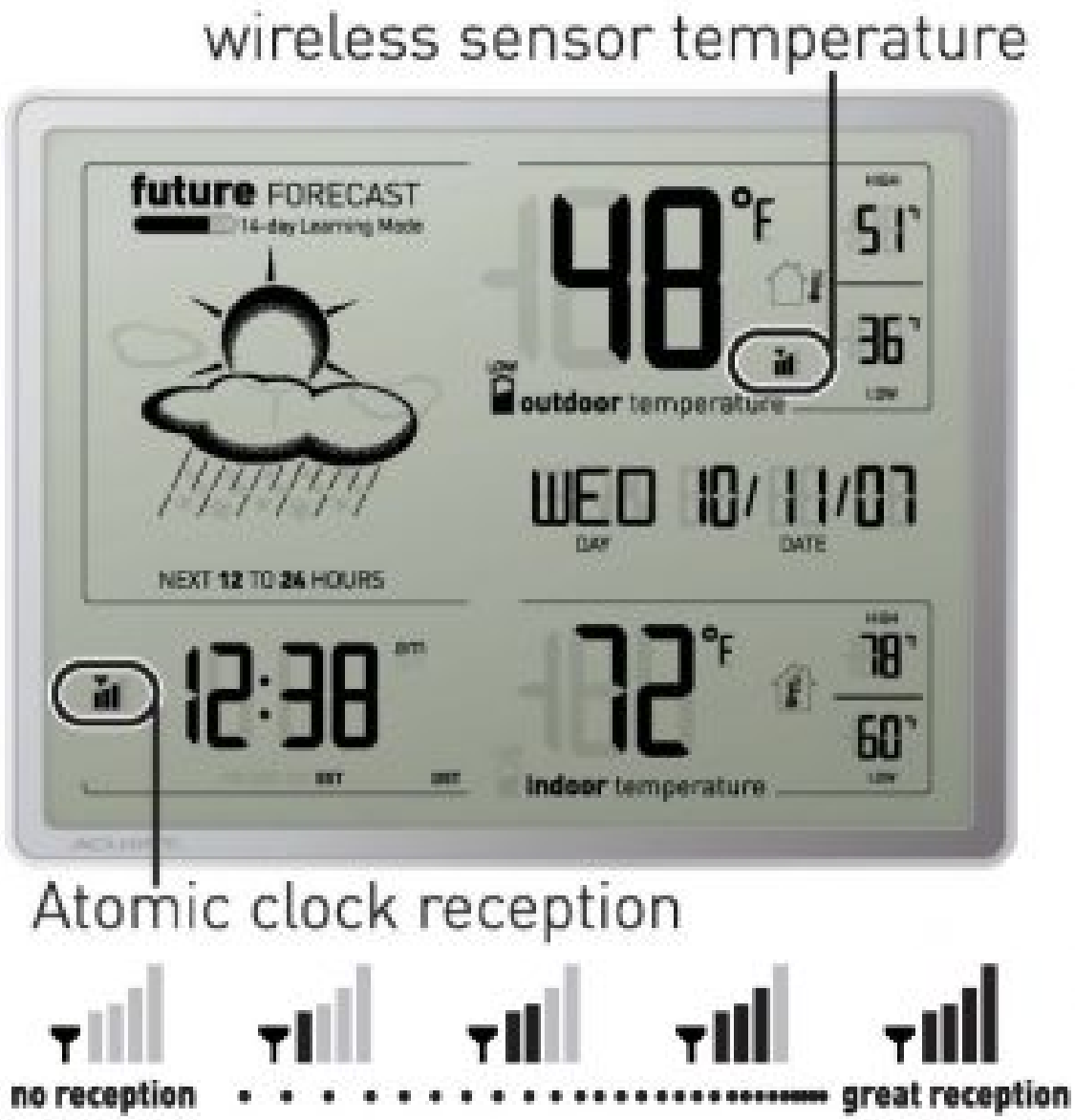
Placement of Sensor

The wireless sensor MUST BE PLACED OUTDOORS to observe outdoor temperatures and relay the outdoor temperature to the main unit display. The wireless sensor must be placed less than 100 feet from the main unit.

The wireless sensor is water resistant and is designed for 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.

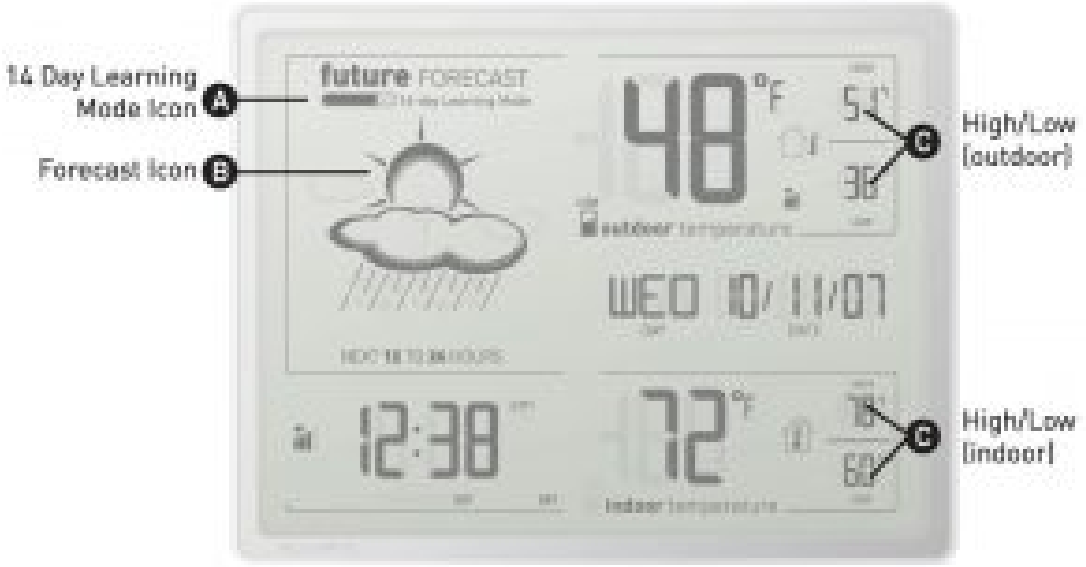
Wireless Reception

The main unit has a wireless signal reception icon in the temperature display area and in the clock display area. If there are a low number of “bars” present, you may experience no temperature display I .. __.. I or clock inaccuracy.
In either case, you may need to relocate one or both of the units. If most or all 4 of the bars are present, wireless reception is good and no action is required.



OPERATION

After the main unit and the wireless sensor are both powered on and wirelessly synchronized, no further input is required. The atomic clock will automatically re-synchronize occasionally to ensure the clock is accurate.



1. **14 Day Learning Mode**

   This weather station has a patent pending fourteen day learning mode calibration process. During this learning mode the weather station will make altitude calculations that may affect the accuracy of the forecast. Once the 14 day learning mode process is complete, the learning mode icon will disappear and the weather forecast should be ready for superior operation.
2. **Forecast Icon**

   This feature gives you the predicted weather forecast for the next 12 to 24 hours based on an advanced algorithm that includes barometric pressure and temperature. This weather station will provide the most accurate forecast that a single station weather instrument can provide.
3. **Daily High/Low**

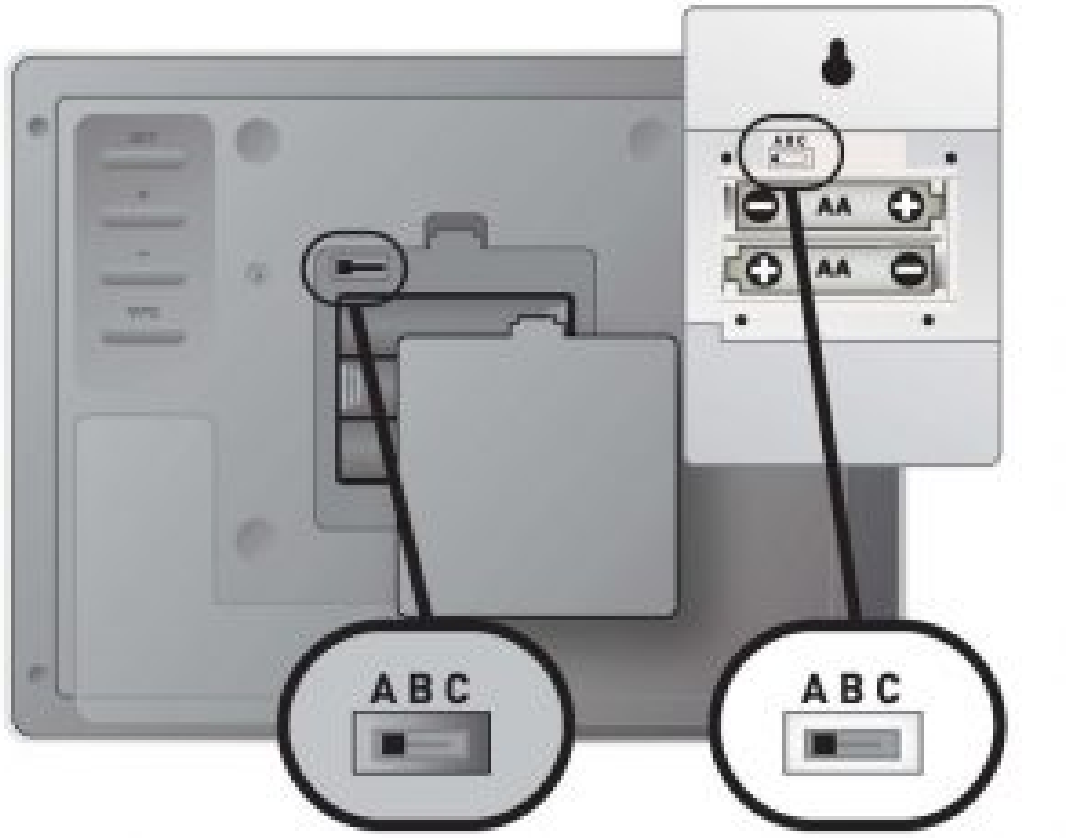
   This feature gives you the recorded highest & lowest temperatures since 12:00 am [midnight] for the indoor temperature and the outdoor temperature.

Troubleshooting

Problem	**Possible Solution**
Bad Temperature Reception 	Relocate the main unit and/or the wireless sensor. Both units must be within 1 00 feet from each other. Make sure both units are placed at least 3 feet from o ther electronic T lll appliances and devices that may interfere no bars with the wireless communication [such as TVs, microwaves, computers etc]. NOTE: It may take up to 20 minutes for the main unit to resynchronize with the sensor when batteries are replaced.
Bad Atomic Clock Reception 	Relocate the main unit. Make sure main unit is placed at least 3 feet from other electronic appliances and devices that may interfere with the wireless c ommunication [such as TVs, microwaves, computers etc]. Large metallic surf aces will also interfere with the atomic clock signal.
No Outdoor Temperature or Hu midity Display (no communicati on]	If wireless reception is bad [no bars]. See “Bad Reception·· section above. Th e wireless ID setting on each unit must match for both units to communicate p roperly. See “Set Wireless 10··on the next page.
Main Unit Display Not Working	Make certain that the batteries are installed correctly. The batteries may need replacing.

Set Wireless ID

This wireless thermometer uses long range 433mhz radio frequency for communication.



both wireless I D's must match

In the event that you have reception problems due to interference, both the main unit and the wireless sensor have a selectable wireless ID. The ID switches are located within the battery compartments of the main unit and the wireless sensor.

You may choose A, B or C; but both the main units' and the wireless sensors' IDs must match for successful synchronization.

PRODUCT SPECIFICATIONS

Measurement Ranges

Temperature
Main Unit: 32°F to 122°F / o0 c to 50°C
Wireless Sensor: -40°F to 158°F / -40°C to 70°C

Specifications

Power Requirements
Main Unit: 3 x ··AA"alkaline or lithium batteries
Wireless Sensor: 2 x "AA""alkaline or lithium batteries

Wireless Communication
Radio Frequency: 433 mhz
Transmission Intervals: every 16 seconds

Atomic Clock

Frequency: WWVB 6oKhz
Synchronizes Daily

Warranty

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 LIBILITY 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.

This device complies with part 15 of the FCC rules. Operation is subect to the following two conditions:
FC 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 dvice, pursuant to Part 15 of the FCC rules. These limits are Outdoor Temp. 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.
- NEXT 12 TO 24 HOURS Increase the separation between the equipment and the receiver.
- Cornect the equipment into an outlet on a circuit different from that to which the receiver 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.

Please DO NOT return product to the retail store.
For technical assistance and product return information, please call Customer **Care: 877-221-1252** Mon. – Fri. 8:00 A.M. to 4:45 P.M. ICSTI
www.chaneyinstrument.com

Documents / Resources

	ACURITE 75077 Wireless Weather Station with Forecast and Atomic Clock [pdf] Instruction Manual 75077, Wireless Weather Station with Forecast and Atomic Clock

References

- AcuRite Weather Monitoring | #1 Weather Station Brand in North America