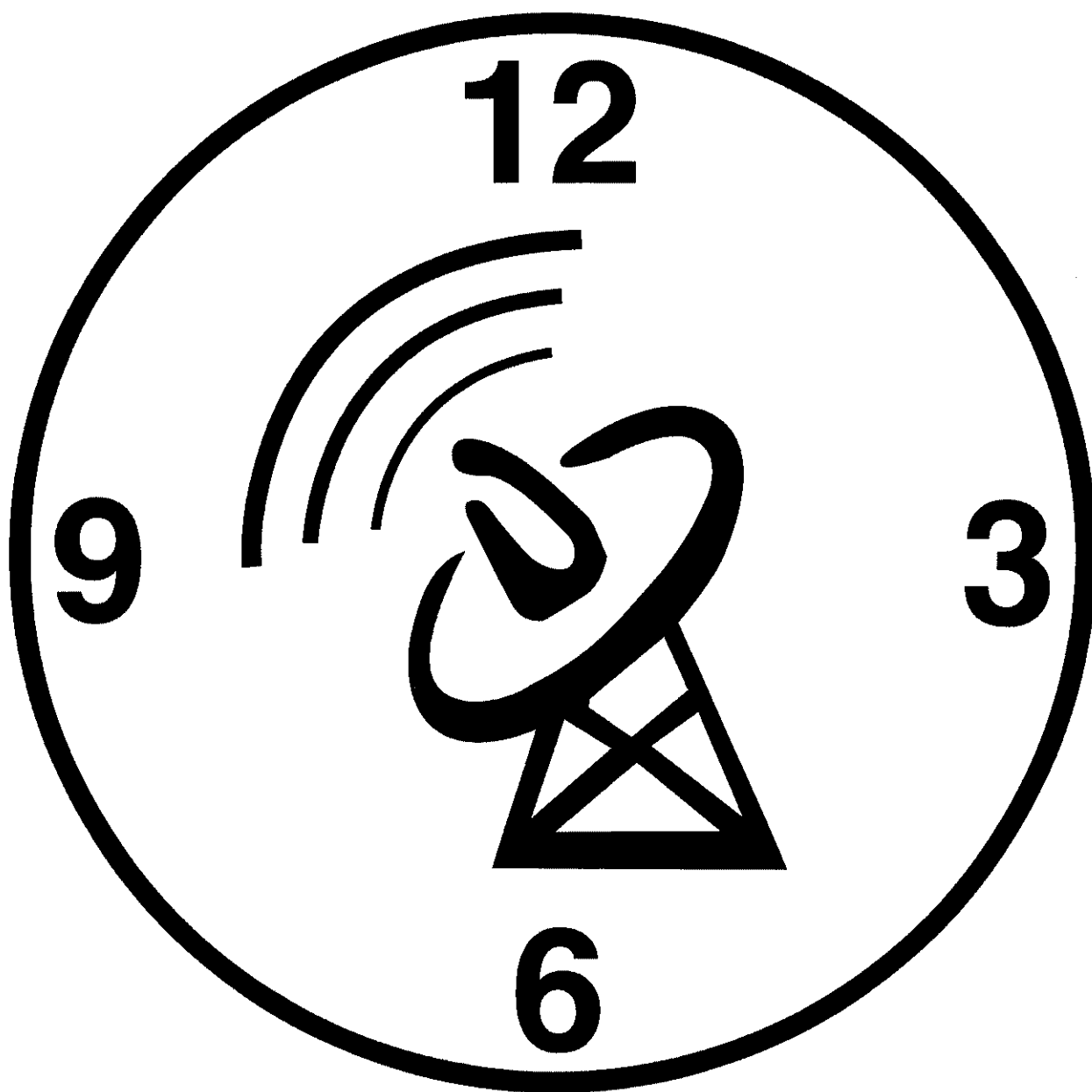


# Atomic Clock



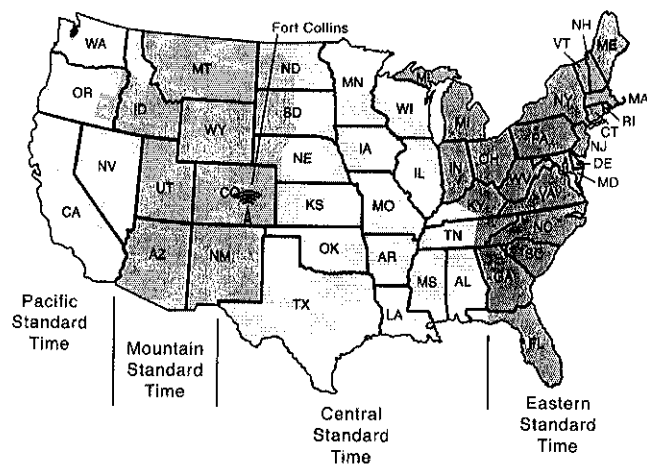
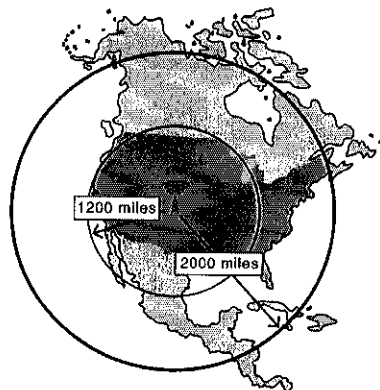
With Calendar and Wireless Thermometer

Instruction Manual

continent. It can receive the time signal transmitted by the National Institute of Standards and Technology (NIST), which is regulated by 3 atomic clocks and deviates less than 1 second within 3,000 years. The NIST broadcasts the time signal (WWVB, 60kHz) continuously from Fort Collins, Colorado. This signal can be received anywhere in the continental USA that long wave (AM) radio reception is possible with a portable radio. It is expected that the signal can cover a distance of over 2,000 miles from the transmitter.

Therefore, your clock will receive the signal within the broadcast range anywhere an AM signal can be received; generally the signal cannot be picked up in massive metal and concrete structures unless near a window. In addition, some environmental effects (see next page) may affect the transmitting distance.

For more information, please study the WWVB WEB page of NIST at:  
<http://www.boulder.nist.gov/timefreq/>



circumstances:

- Long transmitting distance.
- Nearby mountains and valleys.
- Among tall buildings.
- Near railway, high voltage cable. etc.
- Near freeway, airport, etc.
- Near construction site.
- Inside concrete buildings.
- Near electrical appliances.
- Near computers and televisions.
- Bad weather locally or electrical storms between you and Colorado.
- inside moving vehicles.
- Nearby metallic structures.

### Location Precautions

This clock receives a radio wave much like a TV or radio. Be sure to locate it near a window or some other locations where reception is good. Avoid the following location, which can interfere with proper reception.



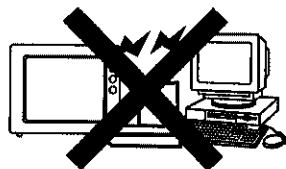
Inside or near concrete/ steel buildings or structures, unless the clock is close/ next to a window (with curtain open).



Next or close to power station.



Inside moving vehicles (automobile, train, airplanes etc) which radio transmission or electronics will interfere the reception of atomic clock.



Too close to household appliances (Computer, TV, video/audios, fax machines, speakers).



Near construction sites, traffic lights, roadside, neon lights etc.



Close to or on top of metal surfaces / plates.

Synchronization signal reception can be received in Continental USA only. In other areas, you can still use this clock by making time settings manually.

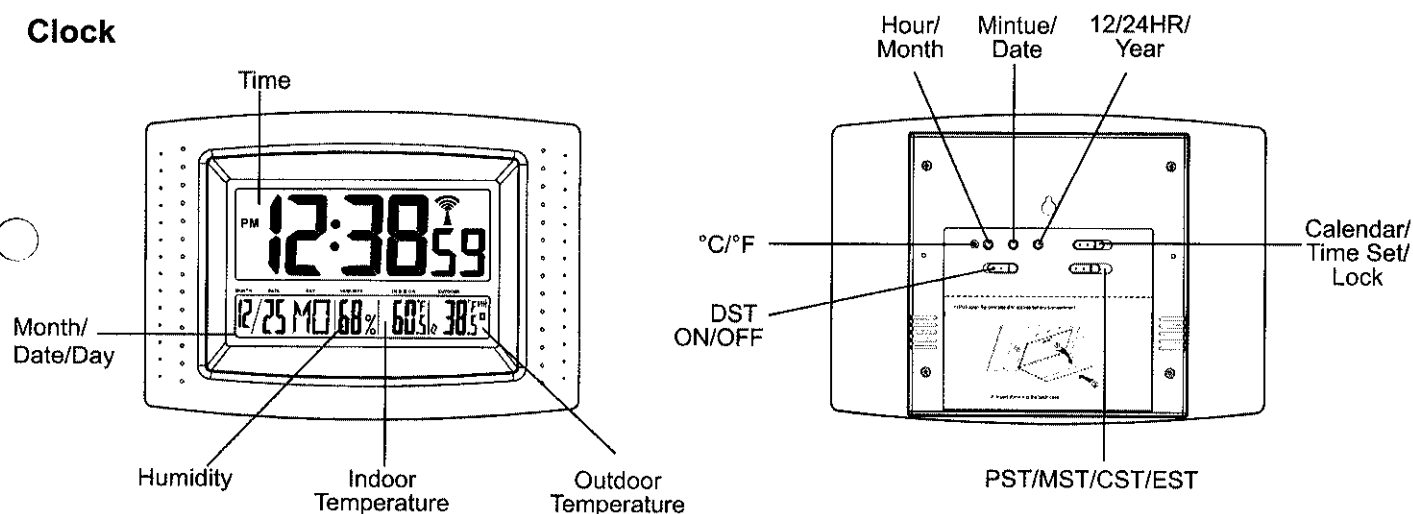
- Calendar with day of the week display from January 1, 2000 to December 31, 2097.
- Hour, minute and second display.
- 12 or 24-hour format.
- Time accuracy (U.S. Atomic clock): better than 1 second in 3,000 years.
- Time accuracy (free run): +/- 30 seconds per month.
- Indoor temperature and remote temperature.
- Centigrade or Fahrenheit readout.
- Battery life : approximate 1 year ( with alkaline batteries).
- Operating temperature from 0°C to 50°C (32°F to 122°F)
- Indoor, Outdoor Temperature measuring range from -10°C to 60°C (-4°F to 140°F)\*
- Temperature resolution 0.1°C.
- Humidity Range from 1% to 99%. Resolution 1%.

\*If using the remote unit with temperatures below 32°F or above 122°F, users are recommended to use Lithium battery to enhance battery life.

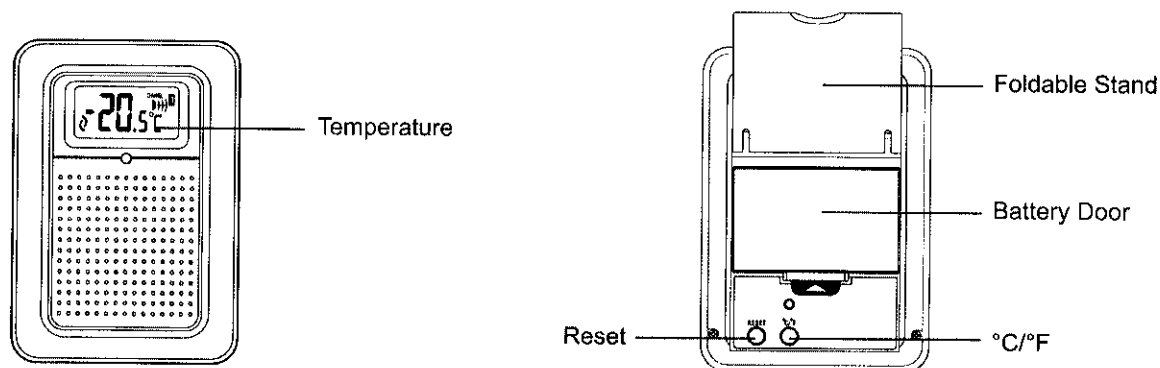
Also, the LCD readout of Remote Unit will be blurred when operation takes place with extreme temperature conditions.

## Location of Controls:

### Clock



### Wireless Transmitter



- Insert 2pcs of AA size batteries in proper polarity (+) and (-) as indicated.
- Close the battery cover

### **Batteries installation of wireless transmitter**

- Open the battery compartment door.
- Insert 2 purchase of AA size batteries in proper polarity (+) and (-) as indicated.
- Close the battery door.

Notes: Do not use old batteries or different batteries together.

### **Getting Started**

○ The SkyScan Atomic Clock with wireless outdoor temperature consists of the SkyScan Clock and a wireless temperature transmitter.

To ensure proper functioning of your SkyScan Atomic clock with outdoor temperature, please follow this power up procedure:

1. Insert new batteries into the main unit.
2. Insert batteries into the remote temperature transmitter.
3. Slide the time zone switch on the back of the SkyScan clock to your time zone:

PST = Pacific Standard Time

MST = Mountain Standard Time

CST = Central Standard Time

EST = Eastern Standard Time




- 4. Slide the daylight savings time switch (DST) to ON. This setting allows your clock to automatically change from standard time to daylight savings time and back each spring and fall. If you live in an area that does not recognize daylight savings time (Arizona and parts of Indiana) slide the DST switch to off.

**Do not touch any other buttons or settings on you SkyScan clock. It will automatically receive the remote temperature and set your clock to the exact time, day, date and indoor temperature and humidity.**

### **Outdoor Temperature**

Upon power up (or pressing the reset button) the temperature RF signal is immediately sent to the clock. The clock attempts to receive the RF temperature signal for 5 minutes. The clock refreshes the RF temperature every 3 minutes.

Try relocating the clock or the transmitter if the clock does not display the outdoor temperature after 5 minutes.

|   |                             |
|---|-----------------------------|
|  | <b>NO SIGNAL DETECTION</b>  |
|  | <b>SIGNAL DETECTION</b>     |
|  | <b>SUCCESSFUL RECEPTION</b> |

### Atomic Clock Reception

Your SkyScan Atomic Clock receives a signal from the US Atomic clock in Ft. Collins, Colorado. If the clock fails to receive the "WAVE" signal in the first reception sequence after power up, it will repeat a 10-minute reception sequence every 30 minutes. This operation stops once the WAVE is received. The automatically clock refreshes the WAVE each night.

You can start reception of the time signal anytime by pressing the TIME WAVE button.

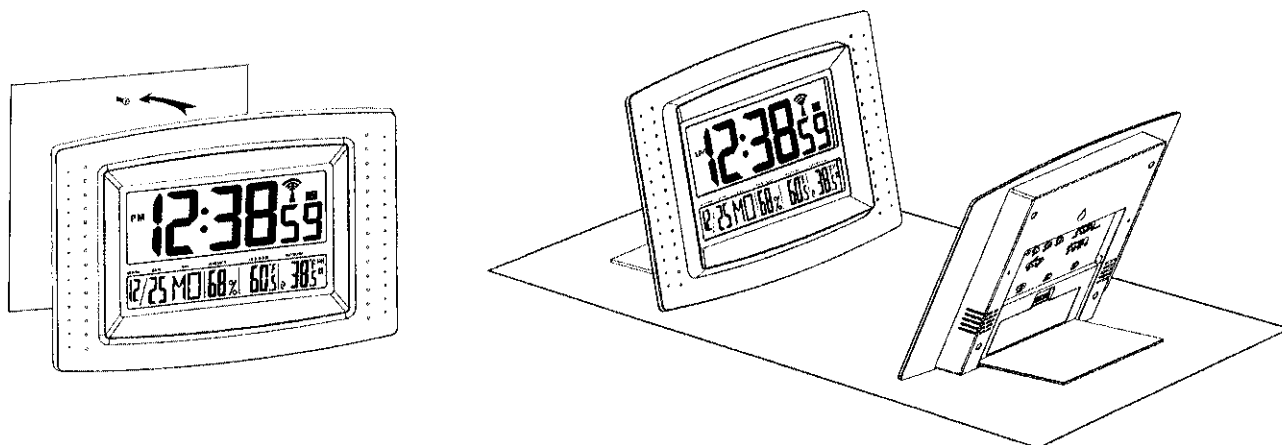
Note: Frequent use of this feature may affect battery life.

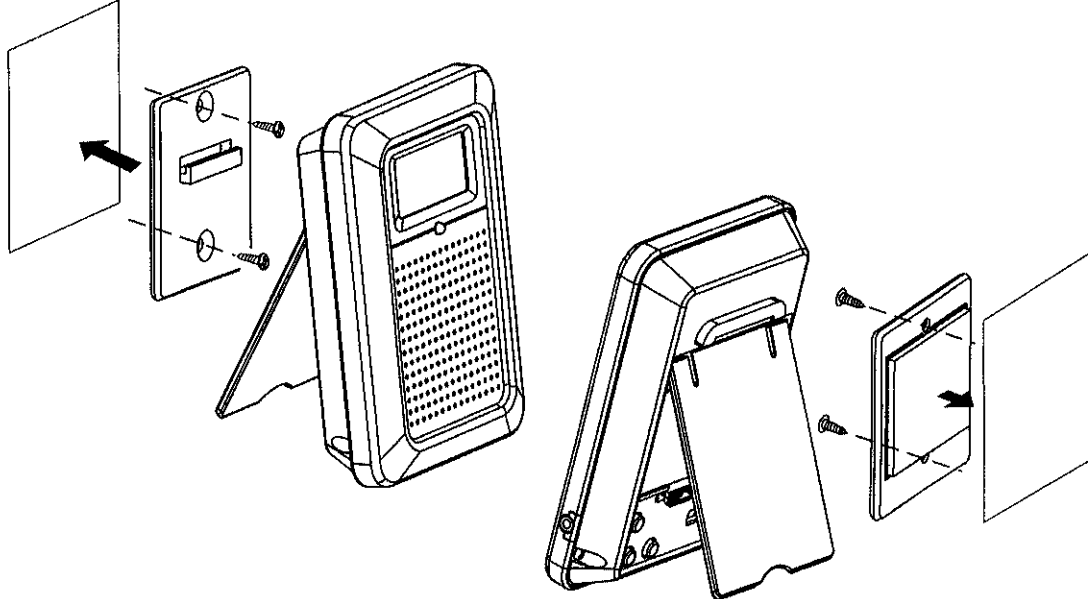
### Interference

Signals from other household devices, such as entry controls, door bells and home security systems, may interfere the RF Thermo Clock to cause temporarily reception failure. This is normal and does not affect the general performance of the product. The transmission and reception of temperature reading will resume once the interference stopped.

### Wall Mounting or Using the Stand

The main unit has a built in stand which can flipped open, it can support the main unit on a flat surface. Or you can close the flip and mount the unit on wall. Drive the screw into the wall until the head extends about 1/8 inch from the wall, then locate the keyhole slot over the screw head and slide the Atomic Clock down to make it secure.





### Manual clock setting

If 20 minutes after power up your clock has not successfully received the time signal, you may set the clock manually or the clock will continue an automatic search each 30 minutes until the signal is received. Best reception of the WAVE is during the nighttime when the atmosphere allows a stronger signal to travel farther from the Colorado transmitter. **It is strongly recommended that you allow the SkyScan Atomic clock one or two evenings to automatically catch the WAVE and set itself.**

If you decide to manually set the clock make sure the time zone and DST switches are properly set (see **getting started**). Then follow these easy steps:

1. Slide the switch to TIME SET and the time will flash on the display. Press the HR and MIN buttons until you reach the desired time.
2. Slide the switch to calendar and the year and date will flash on the display. Press the YEAR, MONTH and DATE buttons until you reach the desired calendar setting.
3. Slide the Switch to the LOCK Position.
4. Press the 12HR/24HR button to choose the desired display format. "AM" and "PM" display only in the 12HR format.
5. Press the C/F button to choose the Centigrade or Fahrenheit scale. Both the indoor and outdoor temperature will display in the chosen scale. Note: the display on the remote unit can also show Centigrade or Fahrenheit independent of the temperature scale chosen for the clock display.

### Losing Synchronization of the wireless thermometer and the clock:

If the clock displayed a proper outdoor temperature in the past but now displays blank "--", the wireless transmitter and clock may have lost synchronization. If this occurs, press the TEMP FINDER button behind the flip over stand of the clock. The clock will attempt outdoor temperature reception for another 6 minutes and reinitiate synchronization with the wireless transmitter. If the remote temperature cannot be received, check:

The remote unit is still in place.

The batteries of both units and replace if necessary.


The transmission is within range and possible interference accounted for.

Shorten the distance if necessary.

#### Care of your clock

- Avoid exposing your clock to extreme temperatures, water or severe shock.
- Avoid contact with any corrosive materials such as perfume, alcohol or cleaning agents
- Do not subject the clock to excessive force, shock, dust, temperature or humidity. Any of these conditions may shorten the life of the clock.
- Do not tamper with any of the internal components of this clock. This will invalidate the warranty and may cause damage.

#### Correct usage of the batteries

- Use 2 new "AA" alkaline batteries (not included)
- Do not mix standard or rechargeable batteries
- Do not mix new and old batteries
- When the low battery mark "  " appears on the display, replace both batteries with new ones.

#### Warranty

- This product is warranted to be free of defects in manufacturing for 90 days after purchase. Defective clocks should be returned to the place of retail purchase.

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 of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

#### FOR CUSTOMER INQUIRIES:

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