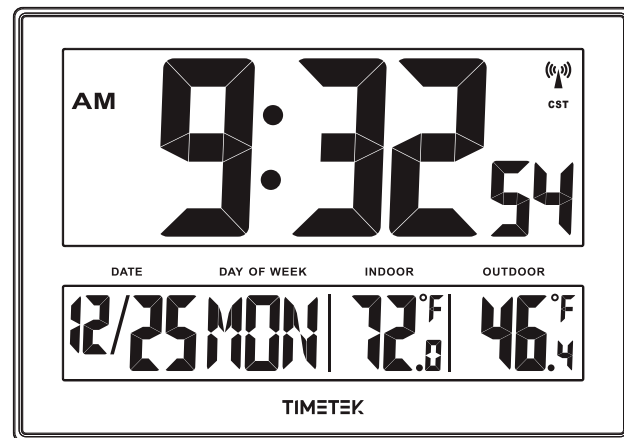
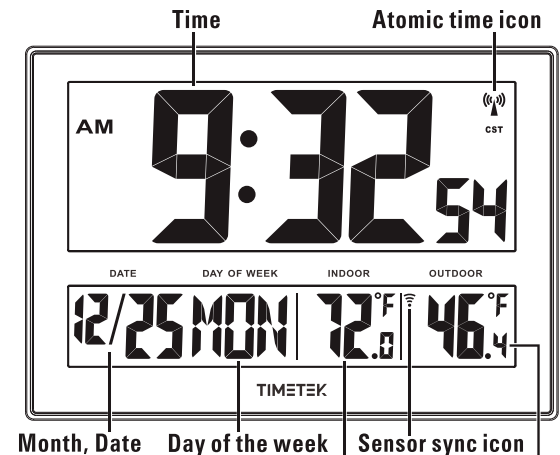


# TIMETEK

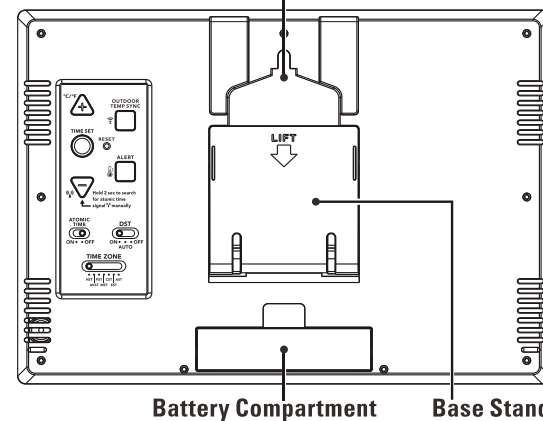
## Atomic Wall Clock with Calendar Indoor and Outdoor Temperature Instruction Manual



DM 9407RF

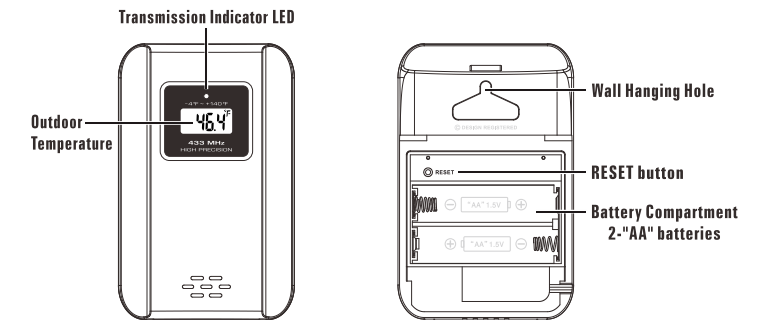


Month, Date Day of the week Sensor sync icon  
Indoor Temperature Outdoor Temperature  
Wall Hanging Hole



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### Outdoor Remote Sensor



### Getting Started

- Clock Setup:** Insert 3-AA 1.5V batteries into the Clock, matching the polarity (+/-) markings inside. Once powered on, the clock will automatically search for the outdoor sensor's signal for 5 minutes. The sensor sync icon  appears during the search and disappears when finished.
- Sensor Setup:** Insert 2-AA 1.5V batteries into the Outdoor Sensor, matching the polarity (+/-) inside. After a few seconds, the sensor will begin transmitting. The red LED on the front will flash to indicate a signal is being sent.
- Once the outdoor temperature appears on the clock display, the sensor is successfully synced. Place the sensor outside in a shaded location.
- The clock will begin searching for the atomic time signal (refer to "Atomic Time Reception" section). It can be placed on a flat surface by using the built-in stand, or mounted on a wall using the wall hanging hole. Position near a window or in an area with the best atomic time reception.

### Atomic Time Reception

- Initial 24Hr Search:** Following the initial sensor search, the clock will automatically search for the atomic time signal every hour for the first 24 hours. This frequent searching gives the clock more chances to find the signal as signal strength and interference change throughout the day.
- Nightly Search:** After the first 24 hours, the clock will automatically search for the atomic time signal every night at 3:00AM and 4:00AM. The atomic time signal is strongest during these late-night hours when there is less electronic interference.
- Search Duration:** Each search can last up to 10 minutes.
- Reception Icon:** The atomic time icon  will flash while searching and stay solid once the signal is received successfully. The atomic time icon  will disappear when the clock is not searching or if the signal cannot be found.
- Manual Search:** You can trigger a manual search by holding the **ATOMIC SEARCH** button for 2 seconds until you hear a beep and the icon  flashes. **Note:** If the clock is already searching, the button will not beep or trigger a new search.
- Disable Search:** If the **ATOMIC TIME** switch is set to OFF, the clock will not search for atomic time signal.

2

342 mm

114 mm

145 mm

**NOTE:** It may take overnight for the clock to receive its first successful sync because the atomic time signal is strongest after midnight when there is less interference.  
For more information about WWVB atomic time, visit: [www.nist.gov/pml/div688/grp40/wwvb.cfm](http://www.nist.gov/pml/div688/grp40/wwvb.cfm)

**Manual Settings & Immediate Use (Time, Date, and Language)**

Alternatively, you do not have to wait for the atomic time signal to be received before using your clock. You may set the time and date manually to use the clock immediately. (This manual setup will not stop the subsequent **Initial 24Hr Search** and **Nightly Search** for atomic time signal; once a signal is successfully received, the clock will automatically update the time and date to ensure accuracy.)

1. Hold the **TIME SET** button for 2 seconds to enter settings mode. The 12/24 Hr digits will flash.
2. Press the  $\Delta$  or  $\nabla$  buttons to adjust the flashing values.
3. Press the **TIME SET** button once to confirm and move to the next setting.

**Settings Order:**

12/24 Hour Format  $\rightarrow$  Hour  $\rightarrow$  Minutes  $\rightarrow$  Seconds  $\rightarrow$  Weekday Language (ENGLISH, SPANISH, FRENCH)  $\rightarrow$  Year  $\rightarrow$  Month  $\rightarrow$  Date

**NOTE:** Settings will auto-save and exit if no buttons are pressed for 15 seconds.

**Troubleshooting Atomic Time Reception**

If your clock does not receive a time signal after the first 24 hours, follow these steps to improve reception:

- **Check Placement:** Move the clock to a different location, preferably near a window or an area with fewer electronic devices.
- **Restart the 24Hr Search:** Once the clock is in its new location, hold the **ATOMIC SEARCH** button for 2 seconds until you hear a beep and the icon  flashes. This will restart the **Initial 24Hr Search** mode, where the clock will search for the signal every hour for the next 24 hours and then return to **Nightly Search** thereafter.
- **Manual Operation:** In areas with very weak signal or extreme interference where a signal is not possible to be reached, set the **ATOMIC TIME** switch to **OFF**. This stops the clock from attempting failed 10-minute search, which preserves battery life. You can treat the device as a high-precision quartz clock and use the **DST** switch (**ON** or **OFF**) to manually control Daylight Saving Time.

**Daylight Saving Time (DST)**

- **DST switch set to ON:** The DST icon remains displayed, and the clock is locked to Daylight Saving Time year-round.
- **DST switch set to OFF:** The DST icon is hidden, and the clock remains in Standard Time year-round.
- **DST switch set to AUTO:** The clock automatically toggles between DST and Standard Time based on the atomic time signal.

**Time Zone**

- Slide the **TIME ZONE** switch to select your local region. This clock supports seven North American time zones.

|              |              |              |              |
|--------------|--------------|--------------|--------------|
| HAWAII = HST | ALASKA =AKST | PACIFIC=PST  | MOUNTAIN=MST |
| CENTRAL=CST  | EASTERN=EST  | ATLANTIC=AST |              |

**NOTE:** When the **ATOMIC TIME** switch is set to OFF, the **TIME ZONE** switch is inactive and its icon will not be displayed.

**Fahrenheit/Celsius**

Press the  $^{\circ}\text{C}/^{\circ}\text{F}$  button to toggle the temperature display between Fahrenheit and Celsius.

**Troubleshooting Syncing with Outdoor Remote Sensor**

The sensor transmits updates every minute. If the clock does not receive a signal for 30 minutes, the OUTDOOR section will show dashes (--). Follow these steps to restore the signal:

1. **Quick Search:** Hold the **OUTDOOR TEMP SYNC** button for 2 seconds until you hear a beep and the sensor sync icon  appears. (**Note:** If the clock is already searching, the button will not beep or trigger a new search). Wait 5 minutes to see if the temperature returns.
2. **Sensor Reset:** If the dashes persist, remove the batteries from the sensor and wait 5 minutes to allow the internal power to drain. Hold the **OUTDOOR TEMP SYNC** button for 2 seconds to start a new search, then insert a fresh set of 2-AA 1.5V batteries into the sensor. This forces a fresh "handshake" between the two devices.
3. **Full System Restart:** If the outdoor temperature is still not showing after 5 minutes, remove all the batteries from clock and sensor, then follow the "Getting Started" section for a clean setup from scratch.

**Outdoor Temperature Alert**

- **Turn Alerts ON/OFF:** Press the **ALERT** button once to cycle through and the alert modes: High Alert ON  > Both High & Low Alert ON  > Low Alert ON  > Both High & Low Alert OFF (Note: The corresponding alert value will flash briefly when it is turned ON)
- **Set Alert Values:**
  1. Hold the **ALERT** button for 2 seconds to enter the High Alert setting.
  2. Press the  $\Delta$  or  $\nabla$  buttons to select the high alert value.
  3. Press the **ALERT** button to confirm and move to the Low Alert setting.
  4. Press the  $\Delta$  or  $\nabla$  buttons to select the low alert value.
  5. Press the **ALERT** button again to save and exit.
- **Alert Behavior:** If the temperature exceeds the set limit, the alarm will beep for 5 seconds and repeat every 60 seconds (up to 7 cycles). The alert icon and temperature value will flash on the display. Press any button to silence the beeping. The display will continue to flash until the temperature returns to the normal range or the alert is turned **OFF**.

**Low battery indicator**

When the low battery icon "" appears in the outdoor temperature section, replace the batteries in the outdoor sensor immediately.

**Troubleshooting & Reset**

If the display is frozen or the buttons are unresponsive:

- Use a pin or paper clip to press the **RESET** button once. This restores the clock to its factory default settings.
- If the issue persists, remove the batteries, wait for 5 minutes, and reinsert the batteries to restart the clock.

**Specifications**

Indoor Temperature Range: 14°F to 140°F (-10°C to +60°C)

Temperature Resolution: 0.1 °C/°F

Measurement Interval: About every minute

**Outdoor Sensor:**

Measurement Range: -40°F to 158°F (-40°C to +70°C)

Operating Temperature: -4°F to 140°F (-20°C to +60°C)

Radio Frequency: 433MHz

Transmission Range: 328 ft (100 meters) open area

Measurement Interval: About every minute

**Power Supply:**

Main Unit: 3 x AA 1.5V batteries

Outdoor Sensor: 2 x AA 1.5V batteries

**Dimensions:**

Main Unit: 10.70 x 0.79 x 7.52 in (27.2 x 2.0 x 19.1 cm)

Outdoor Sensor: 2.60 x 0.87 x 4.06 in (6.6 x 2.2 x 10.3cm)

**Care and Maintenance**

- Main unit operating temperature range: 14°F to 122°F (-10°C to +50°C)
  - Outdoor sensor operating temperature range: -4°F to 140°F (-20°C to +60°C)
- Do not expose the clock to extreme temperatures as this may damage the electronic components and plastic housing.
- Do not tamper with the internal components of the clock. This may cause damage to the components.
- Low Battery: If the display appears dim or faint, replace all batteries promptly.
- Storage: Remove the batteries if the unit will not be used or is being stored for an extended period.
- Do not mix old and new batteries.
- Do not mix alkaline, carbon-zinc, or rechargeable batteries.

**Recycling & Disposal**

Please dispose of this device and its batteries responsibly. Do not discard electronic products or batteries with your regular household trash. To find a recycling center near you, please contact your local waste management services.

**FCC STATEMENT**

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 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.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

**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.

**Caution!**

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.