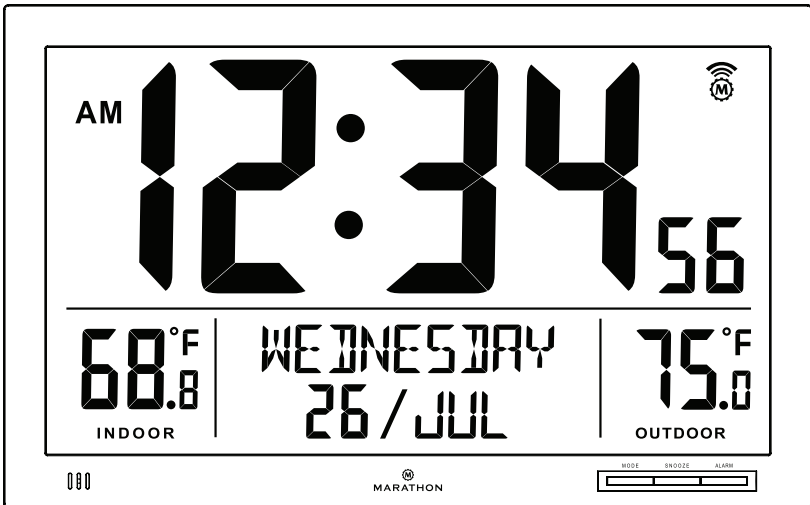




# MARATHON

**ATOMIC FULL CALENDAR CLOCK WITH EXTRA  
LARGE DIGITS AND INDOOR/OUTDOOR TEMPERATURE**



## USER MANUAL

MODEL CL030066 SERIES

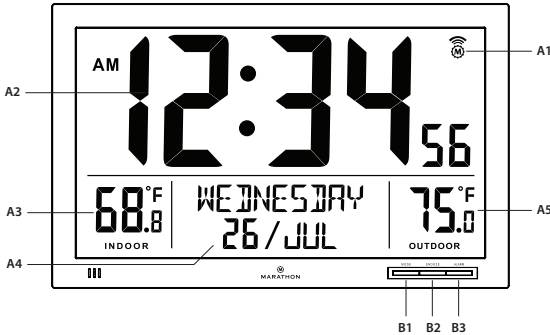


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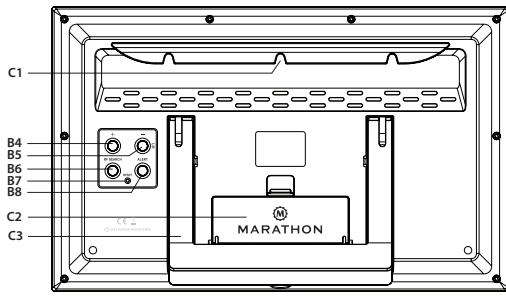
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## UNIT APPEARANCE

### Main Unit



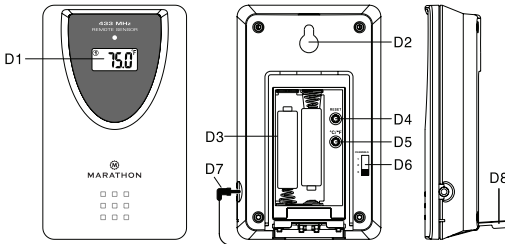
- A1: Radio-control icon
- A2: Time display
- A3: Indoor temperature
- A4: Date and day of the week
- A5: Outdoor temperature



- B1: MODE button
- B2: SNOOZE button
- B3: ALARM button
- B4: +/12/24 button
- B5: +/- button
- B6: RF search button
- B7: RESET button
- B8: ALERT button

- C1: Wall mount hole
- C2: Battery compartment
- C3: Stand

### Outdoor Remote Sensor



- D1: Temperature display
- D2: Wall mount hole
- D3: Battery compartment
- D4: RESET button
- D5: °C/°F button
- D6: Channel select switch
- D7: Temperature probe connection
- D8: Stand

## **WHAT IS A RADIO-CONTROLLED CLOCK?**

A radio-controlled clock synchronizes with radio signals from an atomic clock, giving the most accurate timekeeping available. Time signals transmitted by the National Institute of Standards and Technology (NIST) are regulated by three atomic clocks and deviate less than one second over 3,000 years. The NIST broadcasts the time signals (WWVB, 60 kHz) continuously from Fort Collins, Colorado. The signals can reach a distance of 3,220 km (2,000 miles) from the transmission point. Your radio-controlled clock will receive the signal in any place that an AM signal can be received. However, the signal cannot be picked up in metal or concrete structures unless the clock is positioned near a window. In addition, some environmental conditions (see below) may affect the reception.

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

## **ENVIRONMENTAL EFFECT ON RECEPTION**

Like all wireless devices, the receiving ability may be affected by, but not limited to, the following conditions:

- Long transmitting distance.
- Close proximity of mountains and valleys.
- Close proximity of tall buildings.
- Close proximity of railways, high voltage cables, etc.
- Close proximity of freeways, airports, etc.
- Close proximity of construction sites.
- Being inside concrete buildings.
- Close proximity of electrical appliances.
- Bad weather.
- Being inside moving vehicles.
- Close proximity of metal structures.

## **FEATURES**

### **Clock:**

- Radio-controlled time (RC-WWVB)
- 12/24-hour time display selectable
- Seven time zones
- Daily Alarm/Snooze functions
- Day of week and month in three languages user selectable (English, French and Spanish)
- Measures °C/°F user selectable

### **Outdoor Remote Sensor**

- 433 MHz RF receiving frequency
- Transmission range: 70 meters/230 feet (open area)
- Low-battery indicator for outdoor remote sensor
- Wall mount or table stand
- Temperature probe

## GETTING STARTED

Thank you for selecting a Marathon clock. To ensure the proper functioning of the unit, please follow the instructions contained in this manual.



### BEFORE SET-UP, PLEASE DO THE FOLLOWING:

1. Let the clock reach room temperature.
2. Remove the protective film from the clock.
3. Insert batteries and wait 10 minutes.

## BATTERY INSTALLATION

### Main Unit

1. Open the main unit battery compartment cover (C2).
2. Insert 4 x AA size batteries observing polarity (+ and – marks).
3. Replace the main unit battery compartment cover (C2).

### Outdoor Remote Sensor

1. Remove screw from the battery compartment (D3) cover located at back of outdoor remote sensor.
2. Open battery compartment cover and insert 2 x AAA batteries observing polarity (+ and—marks).
3. Replace battery compartment cover and screw.



Do not mix old and new batteries.

Do not mix alkaline, standard (carbon-zinc) and rechargeable (nickel-cadmium) batteries.


Replace only with the same or equivalent type of batteries.

Please refer to the battery marks inside the compartment for the correct polarity (+ and -).

Danger of explosion is possible if batteries are incorrectly replaced.

**Do not touch any buttons or settings on the main unit once you have installed the batteries. The remote temperature and time signal will be received automatically after the batteries are inserted.**

### Low Battery Indication

The low battery icon  will appear on the display (above the date) to indicate a low battery status. The batteries should be replaced.

*Note: The clock loses its time information when the batteries are removed.*

## INSTALLATION

### Main Unit

The main unit can be placed on a flat surface using the built-in stand (C3) or mounted on a wall using the wall mount hole (C1) located at the back of the unit. To mount the unit on a wall, drive a screw that extends about 1/8 inch from the wall and slide the wall mount hole over this screw to secure it in place. This clock receives a radio wave signal much like a TV or radio. Be sure to place it near a window or in another location with good reception.


### Outdoor Remote Sensor

The outdoor remote sensor should be securely mounted to a surface using the wall mount hole (D2) located at the back. It is recommended to place the outdoor remote sensor in a shaded, dry area to protect it.

## Probe

The wire probe that is included can be used optionally and may be connected to the outdoor remote sensor and placed in the desired location. For example, the sensor may be placed indoors and the attached probe outdoors. This is particularly useful when the temperature is outside the operating range of the outdoor remote sensor, either below -20 °C (-4 °F) or above 50 °C (122 °F), or when you want to measure the temperature in a refrigerator or a wine cellar. Place the end of the probe inside the area you wish to measure and leave the sensor outside to read the temperature. Please note that when the probe is connected to the outdoor remote sensor, the main unit will display the reading from the probe only.


## Radio Frequency (RF) Transmission




The main unit automatically starts to receive the transmission of the outdoor temperature from the outdoor remote sensor after batteries are inserted. The RF icon  will flash on the display. If main unit failed to receive the transmission from outdoor remote sensor in first three minutes after the batteries are inserted, -- will be displayed. Hold the RF SEARCH button for three seconds to receive the transmission manually.

**Note: Buttons will not be operational while scanning for the outdoor remote sensor's signal until the signal is received or the process is stopped manually.**




## TIME AND ALARM SETTING



### Radio-Controlled Clock

After the batteries are inserted, the clock automatically starts to scan for the WWVB time signal. The radio-control icon  will flash on the display. As long as the batteries are supplying power to the main unit, it will receive the time signal and adjust the time automatically. No manual adjustment is required after the unit is turned on. It is recommended to leave the clock near a window overnight to search for the time signal as better transmission of the time signal takes place at night.

The main unit automatically scans for the time signal every day at 2 am and makes any required adjustment to the time setting. The flashing radio-control icon  indicates that the signal is being received. If the time signal is received successfully, the  icon will stop flashing and the display will be solid. If the reception fails, the scanning will stop and the icon  will disappear from the display.


*Important: Do not use any buttons while a signal receiving operation is in progress.*

-  flashes, indicating receiving signal.
-  appears, indicating signal received successfully.
-  disappears, indicating signal reception failed.

The clock can be set to scan the time signal manually by holding the  button (B5) for three seconds. Each reception takes about five minutes. To stop scanning, press and hold the  button (B5) for three seconds.

### Time Zones and Daylight Saving Time Settings


The time zone must be selected by the user. Set the RCC function to ON in

setting mode, then hold the + button (B4) to select the time zone you are in. There are seven time zones available: Atlantic (AT), Eastern (E), Central (C), Mountain (M), Pacific (P), Alaska (AK), and Hawaii (H). The  icon will be visible on the display to indicate Daylight Saving Time Mode.



## Manual Setting

1. In time display mode, press and hold the MODE button (B1) for three seconds to enter the Clock/Calendar setting mode.
2. Press the + or - button (B4 or B5) to adjust the setting and press the MODE button (B1) to confirm each setting. (By pressing and holding the + or - button, the process could be accelerated and the desired value reached faster.)
3. The setting sequence is as follows: 12/24-hour, RCC on/off, Time zone, Weekday language, Hour, Minute, Second, Year, Month, Date, DST ON/OFF, Temperature Unit, Alarm sound duration.
4. For day of week and month, there are three languages available for selection: English, French and Spanish.

*Note: All setting modes will automatically exit after 15 seconds if no buttons are pressed. Alarm sound duration: two options are available, "1 minute" and "2 minutes". Seconds can only be adjusted to 0.*

If the area can receive the RC-WWVB signal, when both the RCC function and the DST function are ON,  will be visible on the display to indicate daylight saving time mode.

## Alarm and Snooze Functions

1. Press the MODE button (B1) to view the alarm time; ALARM TIME flashes on the display.
2. When viewing the alarm time, hold the MODE button (B1) for three seconds to enter the alarm time setting mode.
3. Press the + or - button (B4 or B5) to adjust the alarm time.
4. Press the MODE button (B1) to confirm the setting.
5. Press the ALARM button (B3) to activate or deactivate the alarm. If the alarm is on, the alarm icon  appears on the display.
6. Press the SNOOZE button (B2) when the alarm sounds. The alarm will pause for approximately five minutes, then it sound again. The icon  flashes on the display during the snooze time. This process can be repeated seven times.
7. Press any button, except the SNOOZE button (B2), to stop the snooze function. Otherwise, depending on the setting of the alarm sound duration, the alarm will be heard for 2 minutes or 1 minute, then it will stop automatically.

## TEMPERATURE

Once powered up, the outdoor remote sensor immediately sends the temperature RF signal to the main unit. The main unit attempts to search for the RF temperature signal for five minutes after power up (or after pressing the RESET button). If the RF signal is received within the first five minutes, the temperature will appear on the remote temperature display; otherwise it will be blank (—.-).



After the main unit successfully displays the temperature from the outdoor remote sensor, the synchronization of the main unit and the outdoor remote sensor has been established. If the RF temperature signal is not received within the first five minutes, press the RF search button (B6) on the main unit to search for the remote temperature for another six minutes.

If the temperature is out of the measurable range, LL.L (beyond the minimum temperature) or HH.H (beyond the maximum temperature) will be shown on the display.

Press and hold the MODE button (B1) on the main unit to select the temperature unit, either Celsius or Fahrenheit. Press the °C/°F button (D5) on the outdoor remote sensor to select the temperature unit to be displayed, either Celsius or Fahrenheit.

### **Losing Synchronization of the Outdoor Remote Sensor**


If the main unit received the remote temperature successfully, but now displays a blank value (—.), the synchronization between the outdoor remote sensor and the main unit may have been lost. If this occurs, press the RF search button (B6) on the main unit. The main unit will attempt to receive the outdoor temperature for six minutes and reinitiate synchronization with the remote unit. If the remote temperature cannot be received, check:

1. If the distance between the main unit and the outdoor remote sensor is at least 0.9 m to 1.2 m (3 to 4 feet) away from any interfering sources, such as computer monitors or TV sets.
2. If the main unit is in the immediate proximity of metal window frames.
3. If other electrical devices, such as headphones or speaker, operating on the same signal frequency (433 MHz) are preventing the correct signal transmission and reception.
4. If neighbours are using electrical devices operating on the 433 MHz signal frequency that are causing interference.

Note: When the 433 MHz signal is received correctly, do not open the battery cover of either the outdoor remote sensor or the main unit, as the batteries may spring free from the contacts and force a false reset. Should the batteries come out, reset both units otherwise transmission problems may occur.

The maximum transmission range is 70 meters (230 feet) from the outdoor remote sensor to the main unit (in open space). However, this depends on the surrounding environment and interference levels. The temperature signal travels in a straight line from the outdoor remote sensor to the main unit. The signal will not curve around blocking objects. If no reception is possible despite the observation of these factors, all units have to be reset.

### **Temperature Alert function**

1. Press the ALERT button (B8) to activate or deactivate the outdoor temperature alert function.
2. Press the ALERT button (B8) to:
  - a. Activate the outdoor upper temperature alert, the icon  beside the outdoor temperature digits will be displayed.

- b. Activate the outdoor lower temperature alert, the icon  $\nabla$  beside the outdoor temperature digits will be displayed
  - c. Activate both outdoor upper and lower temperature alerts, the icon  $\triangle\triangledown$  besides the outdoor temperature digits will be displayed.
  - d. Deactivate the outdoor temperature alert, the alert icon will disappear.
3. Hold the ALERT button (B8) for three seconds to enter the outdoor temperature alert setting. The icon  $\triangle$  or  $\nabla$  beside the temperature digits will flash. Press the + or - button to adjust the setting value, then press the ALERT button (B8) to confirm the setting. The setting sequence is as follows: upper limit of temperature, lower limit of temperature.
  4. When the alert is on, the corresponding icon  $\triangle$  or  $\nabla$  and the temperature digits will flash on the display. Press any buttons to stop the alert sound.

## Interference

Signals from other household devices, such as entry controls, door bells and home security systems, may temporarily interfere with the units and cause 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 has stopped.

## TROUBLESHOOTING

1. Use a pin to press the RESET button (B7) if the unit does not work properly.
2. Press the RESET button (B7) when the main unit is displaying the incorrect time, even when the radio-control icon is visible on the display. This may happen when the external noise is strong enough to interfere with the time signal.
3. Press the RESET button (D4) on the outdoor remote sensor if the readout is incorrect or does not respond.

**Setting sequence: 12/24-hour, RCC on/off, Time zone, Weekday, Language, Hour, Minute, Second, Year, Month, Date, DST ON/OFF, Temperature Unit, Alarm sound duration.**

## HOW TO CARE FOR YOUR CLOCK

1. Avoid placing the clock near interference sources/metal frames, such as computer or TV sets.
2. Do not expose the clock to direct sunlight, heavy heat, cold, high humidity or wet areas.
3. Avoid exposing your clock to extreme temperatures, water or severe shock.
4. The outdoor remote sensor must not be set up and installed under water. Set it up away from direct sunlight and rain.
5. Never clean the device using abrasive or corrosive materials or products. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuits.
6. Avoid contact with any corrosive materials, such as perfume, alcohol or cleaning agents.
7. Do not subject the clock to excessive force, shock, dust, temperature or humidity as this will damage it.
8. Do not tamper with any of the internal components of this clock. This will void the warranty and may cause damage to the components.

## SPECIFICATIONS

### Temperature Operation Range

Main Unit:	0 °C to 40 °C 32 °F to 104 °F	Outdoor Remote Sensor:	-20 °C to 50 °C -4 °F to 122 °F
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### Temperature Measurable Range

Indoor:	-10 °C to 50 °C / 14°F to 122 °F
Outdoor:	-20 °C to 50 °C / -4°F to 122 °F
Probe:	-50 °C to 70 °C / -58°F to 158 °F

### Temperature Checking Interval

Main Unit:	Every 32 seconds	Outdoor Remote Sensor:	Every 16 seconds
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### Power Source (alkaline batteries recommended)

Main Unit:	4 x AA batteries, 1.5 V batteries
Outdoor Remote Sensor:	2 x AA batteries, 1.5 V batteries
Battery life:	Approximately 12 months

### Dimensions (Height x Width x Depth)

Main Unit:	0.81 in H x 0.98 in W x 0.1 in D (205 mm H x 247 mm W x 25 mm D)
Outdoor Remote Sensor:	0.39 in H x 0.24 in W x 0.08 in D (100 mm H x 62 mm W x 20 mm D)

## 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:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and main unit.
- Connect the equipment into an outlet on a circuit different from that to which the main unit is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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

## **ISED STATEMENT**

This device complies with Innovation, Science and Economic Development Canada (ISED) 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, including interference that may cause undesired operation of the device.

## **DISPOSAL OF PRODUCT AND USED BATTERIES**

Please refer to your local regulations for proper disposal procedures.

## **WARRANTY**

Marathon Watch Company warrants this item to be free from defects in material and workmanship under normal use in accordance with care and usage instructions for two years from the date of purchase from an authorized retailer. This warranty excludes damage from misuse, abuse or any irregular application. Return the item to us in its original packaging accompanied with the original bill of sale. Please contact Customer Service at 1-800-822-4329 to obtain the shipping address. If we confirm a defect, we will replace it with the same item or one of similar value and return it to you at no charge.

**Marathon Watch Company Ltd.**  
**[www.MarathonWatch.com](http://www.MarathonWatch.com)**  
**Customer Service: 1-800-822-4329**



**Designed in Canada**  
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