USER MANUAL

1. Features

1.1 Time
- Radio Controlled Time (RC-WWVB)
- 12/24 hour time display selectable
- Daily Snooze Alarm function
- Day of week in 3 languages user selectable

1.2 Temperature
- Indoor measurable range: -10°C ~+ 50°C
- Measures °C / °F user selectable
- Outdoor measurable range: -20 ~ 50°C

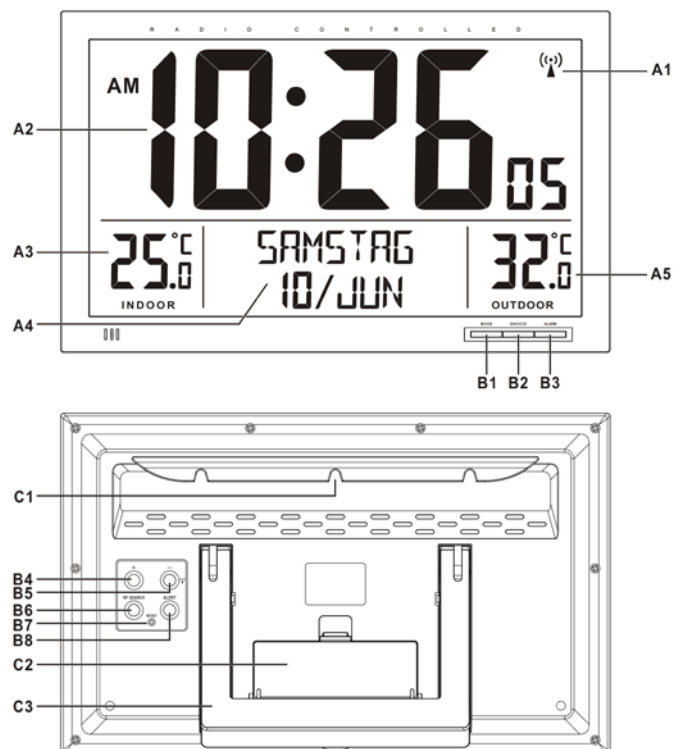**1.3 Wireless Outdoor Sensor**
- 433.92 MHz RF receiving frequency
- Transmission range: 70 meters (open area)
- Low-battery indicator for Outdoor Thermo Sensor
- Wall Mount or Table Stand

2. Unit Appearance

Part A:

A1: Radio Controlled Icon   A3: Indoor Temperature

A2: Time Display   A4: Date, Day of Week

A5: Outdoor Temperature

Part B:

B1: "MODE" Button

B2: "SNOOZE" Button

B3: "ALARM" Button

B4: "+/12/24" Button

B5:"- /📡" Button

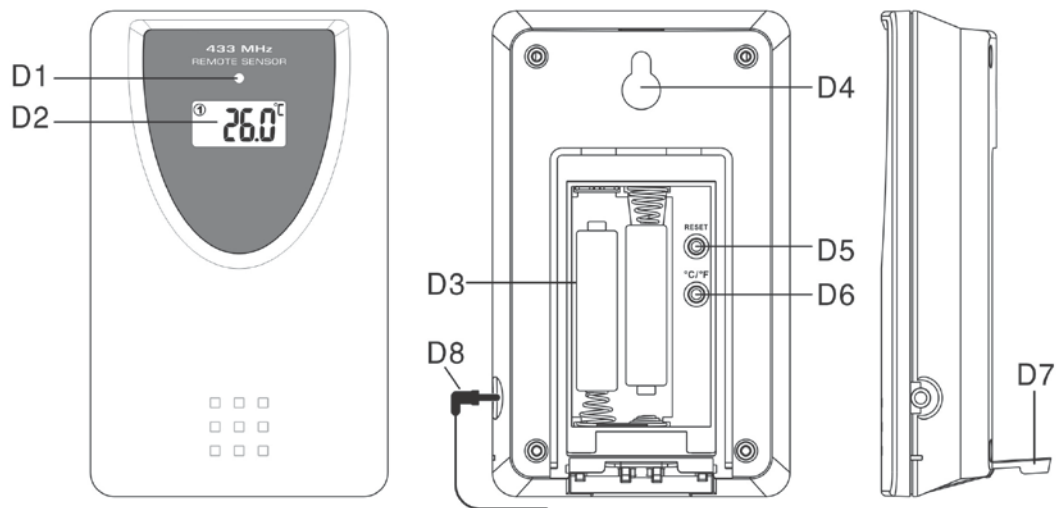B6: "RF SEARCH" Button

B7: "RESET" Button

B8: "ALERT" Button

Part C:

C1: Wall Mount Hole

C2: Battery Compartment

C3: Stand

Outdoor Thermo Sensor(Model Name: CL030027A，CL030066A)

D1: Transmission Indication LED

D2: Temperature Display

D3: Battery Compartment

D4: Wall Mount Hole

D5: "RESET" button

D6: "C/F" button

D7: Stand

D8: Cable probe

4. Getting Started:

4.1 Main Unit:

● Open main unit battery compartment cover [C2]

● Insert 4 x AA size batteries observing polarity ["+" and" –" marks]

● Replace main unit battery compartment cover [C2]

4.2 Outdoor Thermo Sensor

- Battery compartment (D3) of thermo sensor is locating behind the back cover, unscrews the batteries cover to open.
- Insert 2 x AAA batteries observing polarity ["+" and "−" marks]

5. Installation

5.1 Main Unit

The main unit can be placed onto any flat surface (C3), or wall mounted by the hanging hole (C1) at the back of the unit.

5.2 Outdoor Thermo sensor

The remote sensor should be securely mounted onto a horizontal surface.
Note: Transmissions between receiver and transmitter can reach up to 70m in open area.   Open Area: there are no interfering obstacles such as buildings, trees, vehicles, high voltage lines, etc.

6. RF Transmission

- The main unit automatically starts receiving transmission from outdoor thermo sensor for outdoor temperature after batteries inserted. RF icon " 📶 " flashes on the LCD
- The thermo sensor unit will automatically transmit temperature signal to the main unit after batteries inserted.
- If main unit failed to receive transmission from outdoor thermo sensor in first 3 minutes after the batteries inserted, "**- - . −**"display on the LCD.
- Hold "SEARCH" button for 3 seconds to receive transmission manually.
- Press "C/F" button on thermo sensor unit to select temperature to be displayed in Celsius mode or Fahrenheit mode.
Note: Buttons will not function while scanning for thermo sensor's signal unless it is well received or stopped manually.

7. Time and Alarm Setting

7.1 Radio Controlled Clock:

- After batteries inserted, the clock automatically starts to scan the WWVB time signal. Radio Control Icon" 📡 " flashes on the LCD.

📡 flashes, Indicating now is receiving DCF signal	📡 turns on, Indicating signal received successfully	📡 disappear, Indicating signal reception failed

- The clock automatically scans the time signal at 2.00 a.m. every day to maintain accurate timing. If reception fail, scanning stops ("((•))" on LCD disappear)

- The clock can be set to scan the time signal manually by holding "((•))" button for 3 seconds. Each reception takes about 5 minutes.

- Stop scanning by holding "((•))" button for 3 seconds.

- Set RCC function to "on" in setting mode, then hold "+" to select the time zone. There are seven time zones for selectable:

   Atlantic – AT,   Eastern – E,   Central – C,   Mountain – M,
    Pacific – P,   Alaskan – AK,   Hawaii – H,

- "☼DST" shown on the LCD if it is in Daylight Saving Time Mode

7.2 Manual Time Setting:
- In time display mode, hold "MODE" button for 3 seconds to enter Clock/Calendar setting Mode.
- Press "+" or "-" button to adjust the setting and press "MODE" button to confirm each setting.
   (By keeping the "+" or "-" button pressed, could accelerate the process and reach the desired value more quickly)
- The setting sequence is shown as follow: 12/24Hour, RCC on/off, Time Zone, Weekday Language, Hour, Minute, Second, Year, Month, Date, DST ON/OFF, Temperature Unit, Alarm sound duration.
- For day of week and month, there are 3 languages available for selection: English, French, Spanish

Note:
(1) All Setting mode will automatically exit in 15 seconds without any adjustment
(2) Alarm sound duration: there are two options available, "1 minute" and "2 minutes".
(3) Second only can be adjusted to 0.

7.3 Daily Alarm Function:
- Press " MODE" button select to view alarm Time, "ALARM TIME" flashes on the display
- When viewing the Alarm Time, hold "MODE" button for 3 seconds to enter alarm

time setting. Press "+" or "-" button to adjust the alarm time. Press "MODE" button to confirm the setting.

7.4 Snooze Alarm Function:
- Press "ALARM" button to activate or deactivate the alarm. If the alarm is on, alarm icon " 🔔 " appears on the display.
- Press "SNOOZE" button when alarm alerts. The alarm snoozes for around 5 minutes, then it alerts again. "🔔" flashes on the LCD during the snooze time. This process can be repeated for 7 times.
- Except "SNOOZE" button, press any buttons to stop snooze alarm. Otherwise, base on the previous setting of alarm sound duration, the alarm alerts for 2 minutes or 1 minute, then stops automatically.

8. Thermometer
- 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 LCD.
- Press "-" button to select Temperature in Celsius mode/ Fahrenheit mode.
- 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 LCD.

8.1 Temperature Alert function
- Press "ALERT" button to select to activate or deactivate outdoor temperature alert function.
- press ALERT button select to:

➡ Active outdoor upper temperature alert, the icon "▲" besides outdoor temperature digit would display.

➡ Active outdoor lower temperature alert, the icon "▼" besides outdoor temperature digit would display.

➡ Active both outdoor upper& lower temperature alert, the icon "▲▼" besides outdoor temperature digit would display.

➡ Deactivate outdoor temperature alert, alert icon disappear.

- Hold "ALERT" button for 3 seconds to enter outdoor temperature alert setting. Icon "▲" or "▼" beside temperature's digits flash. Press "+" or "-"button to adjust the setting value, press "ALERT" to confirm the setting. Setting Sequence

as follow: Upper limit of temperature, Lower limit of Temperature.

● When it's alert, the corresponding icon "▲" or "▼" and temperature digit would flash on the LCD. Press any buttons to stop the alert sound.

8.2 The use of Temperature Probe:

● Insert the probe plug to the jack on the right hand side of the thermo sensor unit.

● Put the cable outside and leave the thermo sensor unit in indoor area to avoid freezing up the battery when the outdoor temperature is below -20 °C.

● Always use the temperature probe to sense the temperature when the temperature is between the following range: -50 °C ~ 0°C and +50°C ~ + 70°C

9. Low battery indication:

The low battery icon "⚡" turns on the display (beside the outdoor temperature), indicating that thermo sensor in low battery status. The batteries should be replaced.

10. Precautions

● *Use a pin to press the reset button if the Unit does not work properly.*

● *All Setting Modes will automatically exit in 15 seconds without any adjustment.*

● *The clock loses its time information when the battery is removed.*

● *Avoid placing the clock near interference sources/metal frames such as computer or TV sets.*

● *Do not expose it to direct sunlight, heavy heat, cold, high humidity or wet areas*

● *The outdoor sensor must not be set up and installed under water. Set it up in away direct sunlight and Rain*

● *Never clean the device using abrasive or corrosive materials or products. Abrasive cleaning agents may scratch plastic parts and corrode electronic circuits*

11. 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 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.

This device complies with Industry Canada 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.