

## WS9250 – TEMPERATURE STATION WITH ICE ALERT

### USER'S INSTRUCTION

Please read the instructions carefully and keep the manual well for future reference.

### GETTING STARTED

#### ***Before using the main unit and transmitter:***

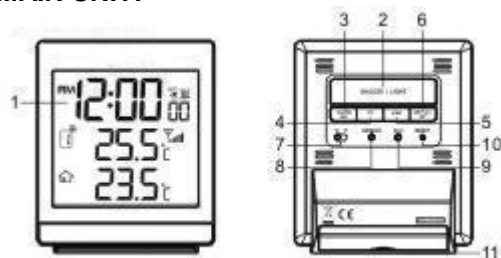
1. Remove the battery door of the main unit and transmitter.
2. Install 2 new AA size batteries for both of the unit and transmitter, according to the polarity information marked on the battery compartment.
3. Replace the battery door.
4. After the batteries are installed, all the segment of the LCD will be shown.
5. Press the "RESET" key at the back of the main unit first, and press the "RESET" key of the transmitter.
6. It will receive 433 MHz signal for channel test automatically in 8 seconds. And after 5 minutes for channel test, it will turn to RC signal reception automatically.

#### **Note:**

1. The unit can receive and display the readings from up to 3 remote transmitters.
2. Position the unit and transmitter within the effective transmission range: 50 meters in usual circumstances.
3. In some cases, you may not receive the signal immediately, you can reset the unit and transmitter again as described in the above section.

### MAIN FEATURES

#### **MAIN UNIT:**



1. LCD display
  - Display of the time, alarm time, outdoor & indoor temperature.
2. SNOOZE / LIGHT key
  - Press it to turn on and keep the backlight for 5 seconds.
  - When the alarm is sounding, press it to stop the current alarm and turn to snooze.
3. ALARM SET key
  - Press it to display and keep the alarm time for 5 seconds. During the alarm time displayed period, press it to turn on/off alarm function.
  - Press and hold it for 3 seconds to enter alarm time setting mode.
  - In alarm time setting mode, press it to step the setting item, and press it to save and exit the setting after setting the minute.
4. CH/+ key
  - In setting mode, press it to adjust the value of the flashing digit upwards. And press it without releasing to speed up the setting.
  - In normal mode, press it to manually check the outdoor temperature from channel 1 to channel 3. Press and hold it for 3 seconds to turn to channel auto-change mode. Press it again to return to normal mode.
5. MEM/- key
  - In setting mode, press it to adjust the value of the flashing digit downwards. And press it without releasing to speed up the setting.
  - Press it to check and keep the max/min indoor and outdoor temperature for 5 seconds.
  - Press and hold it for 3 seconds to delete the max./min. temperature records.
6. DIAPLAY SET key
  - In normal mode, press and hold it for 3 seconds to enter time setting mode.

- In time setting mode, press it to step the setting item, and press and hold it for 3 seconds to save and exit the setting.
- 7. °C/°F slide switch
  - Slide it to switch temperature unit between °C/°F.
- 8. SENSOR key
  - Press it to manual receiving 433 MHz signal for channel test.
  - During the reception test, press and hold it for 3 seconds to turn off the channel test.
- 9. RCC key
  - Press it to manually receiving RC signal.
  - During the RC reception, press and hold it for 3 seconds to turn off the reception.
- 10. RESET key
  - In case of mal-function, press it by using a metal wire to reset all the values.
- 11. Battery door

#### **TRANSMITTER:**



1. LED indicator
  - Flashes when the remote unit transmits a reading.
2. CHANNEL slide switch
  - Assign the transmitter to Channel 1, 2 or 3.
3. RESET key
  - Press it to reset the transmitter.
4. Wall-mounting holder
  - Use it to support the transmitter on the wall.
5. Battery compartment

#### **SIGNAL STRENGTH INDICATOR**

The signal indicator flashing means time signals are being received. If the RC temperature station receives signal successfully, a sync-time symbol “📶” appears on the LCD and the unit has already received the time signal. Otherwise, the signal strength symbol will disappear from the LCD display.

#### **Note:**

You may press “RCC” key to receive the time signal manually. The receive mode will be off automatically after 6-16 minutes. Receive mode consumes more battery power that may reduce battery lifetime.

#### **DAYLIGHT SAVING TIME(DST)**

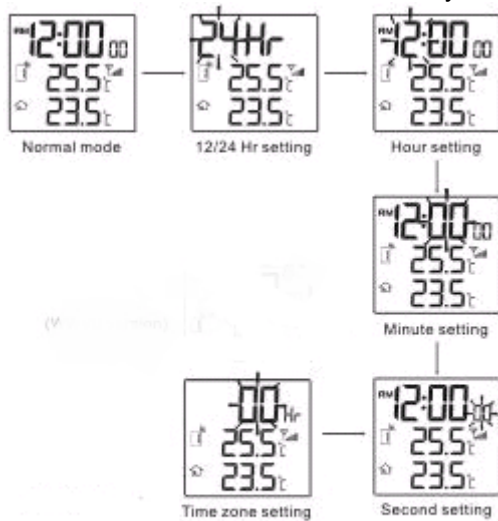
The temperature station has been programmed to automatically switch when daylight saving time is in effect. Your temperature station will display “DST” on the LCD during the summer.

#### **TIME AND CALENDAR SETTING**

If the temperature station does not receive the time signal successfully, you can set the time manually. As soon as the transmitter is received again, the temperature station will automatically synchronize with the received time.

1. In normal mode, press and hold “DISPLAY SET” key for 3 seconds until the Hour format digit flashing.
2. Press “+” / “-” key to select 12/24 hour format.
3. Press “DISPLAY SET” key again to step the setting item to Hour with the Hour digit flashing.
4. Press “+” / “-” key to adjust the value of the flashing digit.

- Do the above operation in this sequence: 12/24 Hr > Hour > Minute > Second > Time zone.
- Press and hold "DISPLAY SET" key for 3 seconds to save and exit the setting.



**Note:**

If your local time is different from the RC received time, you can set the desired time zone. The available time difference is from -23 hours to +23 hours. After setting the desired time difference, the temperature station will show the time that RC received time plus/minus the time difference.

**ALARM TIME SETTING**

- In normal time mode, press and hold "ALARM SET" key for 3 seconds until the Hour digit flashing.
- Press "+" / "-" key to adjust the value of the flashing digit.
- Press "ALARM SET" key again to step the setting value to Minute with the Minute digit flashing.
- Press "+" / "-" key to adjust the value of the flashing digit.
- Press "ALARM SET" key to save and exit the setting.



**Note:**

The alarm function will turn on automatically once you set the alarm time.

**USING ALARM AND SNOOZE FUNCTION**

- Set the desired alarm time as described in the above section.
- Press "ALARM SET" key to display the alarm time, press it again to turn on alarm function with the alarm icon "🔔" displayed on the LCD.
- When temperature station reach the alarm time, alarm sound will start. Where, it can be stopped by following operation:
  - Auto-stop after two minutes alarming if without any operation and it will re-alarm by the next day.
  - By pressing "SNOOZE" key to enter snooze that the alarm will sound again after 5 minutes.
  - By pressing "ALARM SET" key to turn off the alarm function.

**Note:**

- The snooze could be used continuously in 24 hours.
- During the snooze, the alarm icon will keep flashing.

**VIEW THE CHANNEL**

1. The default displayed channel is channel 1. In normal mode, press “+CH” key to check the outdoor temperature from channel 1 to channel 3.
2. Press and hold “+/CH” key for 3 seconds to turn to channel auto-change mode that the channels change automatically.
3. Press “+/CH” key again to return to normal mode.



**Note:**

In channel auto-change mode, channel and its outdoor temperature changes automatically in every 4 second.

**READING INDOOR&OUTDOOR TEMPERATURE RECORDS**

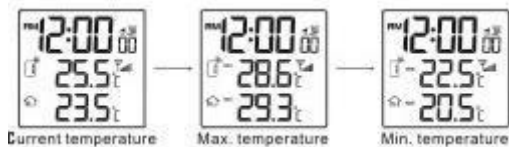
1. Slide “C/°F” switch to change the temperature unit to Celsius or Fahrenheit.
2. Press “CH/+” key to change the channels among 3 channels and check their temperature.

**Note:**

1. Once the channel is assigned to one transmitter, you can only change it by removing the batteries or resetting the unit.
2. If no signals are received or the transmission is interfered, “---” will appear on the LCD.
3. Relocate the clock or the transmitter in other positions and make sure the transmission is within the effective range of 30 meters approx.
4. After several trials in vain, please reset the temperature station thoroughly. Try out where your multifunctional alarm clock receives the signals best.

**CHECKING AND DELETING MAX./MIN. TEMPERATURE REOCRDS**

1. Press “MEM/-” key to check and keep the maximum / minimum temperature record for 5 seconds.
2. Press and hold the “MEM/-” key for 3 seconds to delete the maximum and minimum temperature records.



**Note:**

Once you reset or re-install batteries for the main unit, all the value will be return to default.

**ICE ALERT**

When the outdoor temperature is in the range of -2°C~3°C (28°F~37°F), the flashing ice icon “❄” on the LCD make you aware the dropping temperature and the ice may be present or forcoming.



**BATTERY REPLACEMENT**

When the LCD becomes dim, replace with 2 AA size batteries at once; while if the low battery indicator “❄” displays in the outdoor window, it indicates that the battery power of the transmitter is not enough, and you should replace with 2 AA size batteries at once.

**SUGGESTION**

1. Everyday the unit will automatically search for the time signal at 2:00, 8:00, 14:00 and 20:00.
2. Always place the unit away from interfering sources such as TV set, computer, etc.
3. Avoid placing the unit on or next to metal plate.
4. Closed area such as airport, basement, tower block or factory is not recommended.
5. Do not start reception on a moving article such as vehicle or train.



## **SPECIFICATION**

### **MAIN UNIT**

Measurement range:	-40.0~70.0°C (-40.0~158.0°F)
Recommended operating range:	0~45.0°C (32.0~113.0°F)
Resolution:	0.1°C/°F
Radio Controlled signal:	DCF77

### **REMOTE SENSOR**

Measurement range:	-40.0~70.0°C (-40.0~158.0°F)
Recommended operating range:	-20.0~55.0°C (-4.0~131.0°F)
Resolution:	0.1°C/°F
RF transmission frequency:	433 MHz
RF transmission range:	Maximum 50 meters
No. of remote sensor:	Up to 3 units
Temperature sensing cycle:	Around 60~64seconds

### **POWER**

Main unit:	3V, use 2×AA 1.5V battery
Remote sensor:	3V, use 2×AA 1.5V battery

### **DIMENTION**

Main unit:	84(W)×100(H)×48(D)mm
Remote sensor:	65(W)×100(H)×35(D)mm