# OREGON
### SCIENTIFIC

## ADVANCED WEATHER STATION
## MODEL IWA-80004
## USER'S INSTRUCTIONS
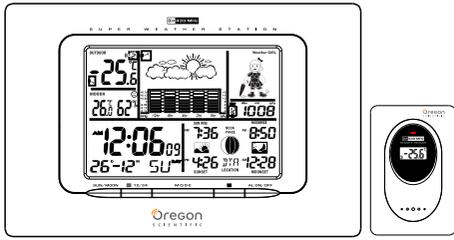
Thank you for your purchase of this advanced weather station. The utmost care has gone into the design and manufacture of your clock. Please read the instructions carefully and keep the manual for future reference.

The receiver unit has a clear, easy-to-read display that shows the indoor/outdoor temperature, time, date, month and day of the week. It will receive and display temperature readings from the wireless remote sensor. The 433 MHz technology means no wire installation is required and you can place the sensor anywhere within the 100 feet transmission zone.

## MAIN FEATURES:

• Digital time with Manual Time Setting option
• Daily Sunrise/Sunset and Moonrise/Moonset Time Display for 244 cities in USA, Canada and Mexico.
• Weather Forecast
- Weather Forecast with Sunny, Slightly Cloudy, Cloudy, Rainy and Cloud Burst Animation
- Weather Girl with Suitable Clothing in Outdoor Condition
• Barometric Pressure Measurement.
- Current and Past 12hr Absolute and Relative Barometric Pressure Reading
- Barometric Pressure Bar Chart.
- Display in mb/hPa or in Hg Selectable.
• 433MHz RF Transmitting Frequency.
• Maximum Three Selectable RF channels with Wireless Thermo Sensor. (One Wireless Thermo Sensor Included)
• Transmission Range: 100 feet (Open Area).
• Measurable Range:
• Indoor Temperature : 32°F ~ 122°F
• Indoor Humidity : 20% ~ 99%
• Outdoor Temperature : -4°F ~ +122°F
• Max/Min Memory for Humidity, Indoor and Outdoor Temperature.
• Low-battery Indicator for Outdoor Thermo Sensor.
• Perpetual Calendar Up to Year 2099.
• 12/24Hour Time Display Selectable.
• 2 Alarm Function
• Moon Phase Display
• Wall Mount or Table Stand Selectable.

## BATTERY

Main Unit : DC 1.5 V 2A size x 3 pcs
Thermo Sensor Unit : DC 1.5 V 3A size x 2 pcs

## SPECIFICATIONS

### MAIN UNIT

| | |
|---|---|
| Recommended operating range: | 0 °C to 45 °C<br>32 °F to 113 °F |

### REMOTE SENSOR

| | |
|---|---|
| Recommended operating range: | -20 °C to 55 °C<br>-4 °F to 131 °F |
| RF transmission frequency: | 433 MHz |
| No. of remote unit: | 1 unit |
| RF transmission range: | maximum 100 feet |

### Power

Main Unit : DC 1.5 V 2A size x 3 pcs

Thermo Sensor Unit : DC 1.5 V 3A size x 2 pcs

### Dimension

Main Unit : 5.94 x 9.13 x 1.22 inch
Thermo Sensor Unit : 3.7 x 2.36 x 1.10 inch

## MAIN UNIT APPEARANCE:
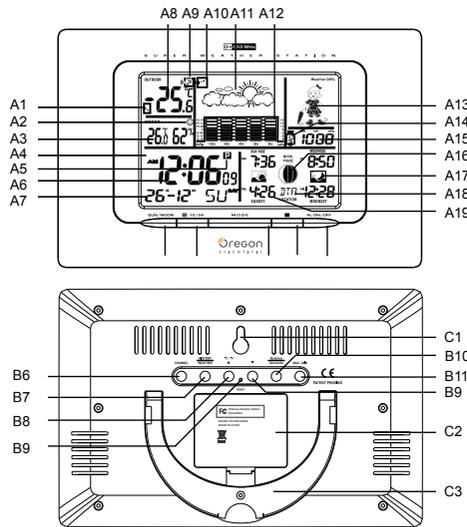


## BEFORE USING THE TRANSMITTER

### Part A-LCD

| | |
|---|---|
| A1: Outdoor Temperature Trend | A11: Weather Forecast |
| A2: Comfort Icon | A12: Barometric Pressure Bar Graph |
| A3: Indoor Temperature/Humidity | A13: Weather Girl |
| A4: Radio Control Icon | A14: Past Hour(Pressure History) |
| A5: Time Zone | A15: Absolute/ Relative Barometric |
| A6: Radio Controlled Time | Pressure Reading |
| A7: Date, Month & Week | A16: Moon phase |
| A8: Outdoor Temperature Moonrise Time | A17: Moonrise/Moonset |
| A9: Selected Channel | A18: Time Selected Country |
| A10: Barometric Pressure Trend | A19: Sunrise/Sunset Time |

### Part B-BUTTON

| | |
|---|---|
| B1: "SUN/MOON" Button | B7: "HISTORY/ WEATHER" Button |
| B2: "+ / (12/24) Button | B8: "▲(UP) / °C/ °F"Button |
| B3: "MODE" Button | B9: "▼(DOWN)"Button |
| B4: "- /☂" Button | B10: "Relative /Absolute" Button |
| B5: "ALARM ON/OFF" Button | B11: "MAX/MIN" Button |
| B6: "CHANNEL" Button | B12: "RESET" Button |

### Part C- STRUCTURE

C1: Wall Mount Hole    C2: Battery Compartment    C3: Stand

## THERMO SENSOR UNIT APPEARANCE



**Front view**    **Back View**
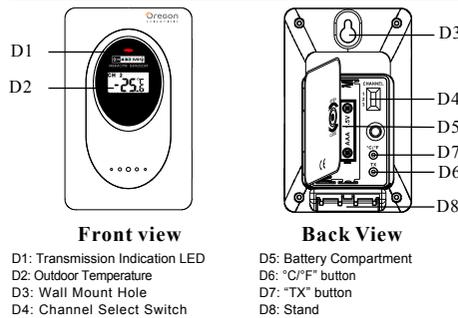
| | |
|---|---|
| D1: Transmission Indication LED | D5: Battery Compartment |
| D2: Outdoor Temperature | D6: °C/°F button |
| D3: Wall Mount Hole | D7: "TX" button |
| D4: Channel Select Switch | D8: Stand |

Set Up:
- Insert batteries
- Use a pin to press the RESET (B12) button

## WEATHER FORECAST FUNCTION

1.  After Batteries inserted or holding "WEATHER" button (B7) for 3 seconds, Weather Icon (A11) blinks. Enter the current weather condition by pressing "▲" (B8) or "▼" (B9) buttons. Press "WEATHER" button (B7) to confirm the setting. The weather forecast may not be accurate if the current weather condition entered is not correct.
2.  The current weather status should be entered again if the altitude of the weather station is changed. (Barometric pressure is lower at higher altitude location. Therefore, altitude change will affect the weather forecast) The weather station will start the first forecast at 6 hours after the current weather status is entered.
3.  Totally 5 different weather conditions in the weather forecast.



Sunny             Slightly Cloudy

Cloudy            Rainy
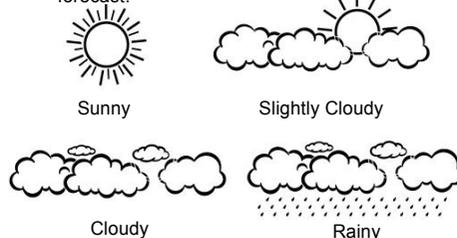
Cloudburst

" 🌨 " is shown if the weather forecast is Rainy or Cloudburst and outdoor temperature (any channel) is under 0°C.

If there is any inconsistency of weather forecast between Local Weather Station and this unit, the Local Weather Station's forecast should prevail. We will not hold responsible for any trouble that may come up due to wrong forecasting from this unit.

The trend pointer (LCD A10) indicates the trend of the barometric pressure.

 indicates the barometric pressure trend is increasing.

 indicates the barometric pressure trend is steady.

 indicates the barometric pressure trend is decreasing.

## BAROMETERIC PRESSURE READING

- Press "Absolute/Relative" button (B10) for three seconds to select Absolute or Relative pressure display. "Abs" is shown for Absolute pressure; "Rel" is shown for Relative pressure.
- Absolute pressure is the actual pressure measured by the Main Unit.
- Relative pressure can be adjusted to sea level's pressure by holding "Absolute/Relative" button (B10) for 3 seconds.
- Press " ▲" (B8) or "▼" (B9) key to adjust, press "Absolute/Relative" button (B8) to confirm. Check the Local Weather Station for Sea Level pressure.
- Press "HISTORY" button (B7) to view the past 12 hours Barometric Pressure history. The hour is indicated on LCD (A14).

Press "HISTORY" button (B7)
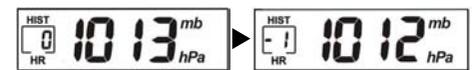


- Press "HISTORY" button (B7) to view the past 12 hour Barometric Pressure history. The hour is indicated on the LCD.
0 HR = Current Barometric Pressure Reading
-1HR = Barometric Pressure Reading in 1 hour ago
-2HR = Barometric Pressure Reading in 2 hour ago........etc
Hold "▲" button (B8) for three seconds to select the unit for Barometric Pressure Meter in inHg or mb / hPa.

## BAROMETERIC PRESSURE TREAD BAR GRAPH

1.  The Barometric Pressure Reading at –2hr, -4hr, -8hr and –12hr is recorded and shown on Barometric Pressure Bar Graph (A12). The Graph is displayed in both hPa and inHg.

## WEATHER GIRL

1.  Weather Girl (A13) shows different clothing under different weather condition and Outdoor temperature (according to the lowest channel). This is to remind you to wear suitable clothes or take an umbrella with you before go to outdoor area.
2.  If there is no Thermo Sensor is registered in the main unit, LCD shows :



## THERMOMETER

1.  Press "°C /°F" button (B8) to select Temperature to be displayed in Celsius mode or Fahrenheit mode.
2.  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.

## MAXIMUM / MINIMUM TEMPERATURE / HUMIDITY RECORDING FUNCTION

1.  Press "MAX/MIN" button (B11) to show the maximum or minimum of indoor/outdoor Temperature/Humidity. "**MAX**" is shown on the LCD if maximum Temperature /Humidity is shown.
" **MIN** ' is shown on the LCD if minimum Temperature/ Humidity is shown.
2.  Hold "MAX/MIN" button (B11) for 3 seconds to clear the recorded maximum and minimum reading.

## OUTDOOR THERMO SENSOR UNIT REGISTRATION PROCEDURE

1. The main unit automatically starts receiving transmission from Outdoor Thermo Sensor after Weather condition setting. Outdoor temperature digits (A8) blinks.
2. Insert the batteries in the Thermo Sensor Unit. The sensor unit automatically transmits temperature to the main unit. (Battery compartment (D5) of thermo sensor is located behind the back cover, unscrews to open.)
3. For having more than one external transmitter (Maximum3), select the Channel, CH1, CH2 or CH3 to ensure each sensor is transmitting at difference channel before inserting batteries. The channel select switch (D4) is at the back of the thermo sensor unit.
4. Press "TX" button (D7) on the thermo sensor unit to transmit temperature to the main unit manually. The main unit gives a "beep" sound if it received the temperature.

## DISPLAY OUTDOOR TEMPERATURE

1. Press "CHANNEL" button (B6) to view the 3 Channels' temperature. The sequence is shown as follow:
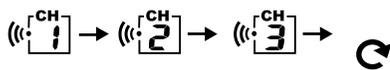


Press "CHANNEL"Button

Display the three channels alternatively

2. Hold "CHANNEL" (B6) button for 3 seconds to cancel unused channel. It will automatically register a new channel again if a new channel is received. If there is no temperature displayed in existing channel ("- - . –"is displayed on the LCD), hold "CHANNEL" button (B6) for 3 seconds to cancel that channel and receive the channel again ("Beep" sound can be heard.) Then, press "TX "button (D7) on the thermo sensor unit to transmit signal to the main unit manually
3. The trend pointer displayed (A1) indicates the trend of the outdoor temperature.

 Indicates the outdoor temperature is increasing.

 Indicates the outdoor temperature is steady.

 Indicates the outdoor temperature is decreasing

4. Press " °C /°F" button (D6), on the Thermo Sensor unit, to select Temperature to be displayed in Celsius mode or Fahrenheit mode.

## MANUAL TIME SETTING

1. Hold "MODE" button (B3) for 3 seconds to enter Clock/Calendar setting Mode.
   Press "+" (B2) or "-" (B4) buttons to adjust the setting and press "MODE" button (B3) to confirm each setting.
2. The setting sequence is shown as follow:
   Hour, Minutes, Second, Year, Month, Day, Day-of-week, Country and City.

## 12/24 HOUR DISPLAY MODE

1. Press "12/24" button (B2) to select 12 or 24 hours mode.

## 2 DAILY ALARM FUNCTION

1. Press " MODE" button (B3) to select to view:

Time ➝ Alarm Time1 ("  " Shown)
Alarm Time 2 ("  ' Shown)

2. When viewing Alarm Time 1 or Alarm Time 2, hold "MODE" button (B3) for 3 seconds to enter that Alarm Time setting. Press "+" (B2) or "-" (B4) buttons to adjust the alarm time.
   Press "MODE" button (B3) to confirm each setting.
3. When viewing Alarm Time 1 or Alarm Time 2, press "ALARM ON/OFF" button (B5) to switch that alarm ON or OFF.
4. Press "MODE"(B3), "+"(B2), "-"(B4) or "SUN/MOON" (B4) button to stop the alarm.

## SUNRISE/SUNSET AND MOONRISE/MOONSET TIME DISPLAY FUNCTION

1. After setting the Calendar, Local Country and City in the Time Setting Mode, the Main Unit calculates the Sunrise/Sunset and Moonrise/Moonset. The Sunrise/Sunset and Moonrise/Moonset time digit blinks during the calculation.
2. Press "SUN/MOON" button (B1) to display the Sun Hours of the selected day.
   Hold "SUN/MOON" button for (B1) 3 seconds to enter Sunrise/Sunset and Moonrise/Moonset Time Quick Checking Mode. Location digits (A18) blinks
3. Enter "Country", "City", "Year", "Month" and "Day" which you would like to check.
4. Press "+" (B2) and "-"(B4) button to adjust and press "SUN/MOON" button (B1) to confirm setting.
5. The Sunrise/Sunset and Moonrise/Moonset time digit blinks during the calculation. After Calculation, Sunrise/Sunset and Moonrise/Moonset time is shown. The location digits (A18) keep blinking to indicate the Main Unit is still in Quick Checking Mode. Press "SUN/MOON" button (B4), or after 15 seconds, to return to normal mode.
6. If moonrise or moonset occur at next day, then "MOONRISE +1" or "MOONSET +1" will be displayed.
7. If there is no moonrise or moonset occur on someday, " –:– –'will be displayed on the LCD The Sunrise/Sunset and Moonrise/Moonset time display is just for reference only. For exact Sunrise/Sunset and Moonrise/Moonset time, please refer to your Local Weather Station.

## MOON PHASE DISPLAY

The Moon Phase (A16) of each day is shown on the LCD.
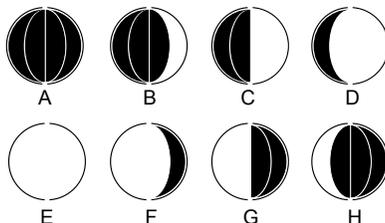


A: New Moon          B: Waxing Crescent   C: First Quarter
D: Waxing Gibbous    E: Full Moon         F: Waning Gibbous
G: Last Quarter      H: Waning Crescent

## LOW BATTERIES INDICATOR

Low battery icon "  "appear at particular channel indicating that Thermal Sensor Unit of the channel is in low battery status. The batteries should be replaced.

**NOTE:**

- Use a pin to press the reset button (B12) if the Unit does not work properly.
- Avoid placing the clock near interference sources /metal frames such as computer or TV sets.
- The clock loses its time information when the batteries is removed.
- Buttons will not function while scanning for WWVB time signal or thermo sensor's signal unless they are well received or stopped manually.
- All Setting Modes will automatically exit in 15 seconds without any adjustment.

**NOTE:**

Attention! Please dispose of used unit or batteries in an ecologically safe manner. 

## PLACING THE TRANSMITTER OUTSIDE

The transmitter should be located in an area protected from direct sunlight and rain. Place the sensor under a covered location like a roof overhand or under the eaves. This will ensure accurate temperature readings. The transmitter comes with a wall mounting/desktop holder. When mounting on a wall, screw in place the holder using the top and bottom holes. Then secure the transmitter in the holder. The holder is also equipped with a table stand. With the transmitter secured on the holder, retract the leg on the rear of the holder and place on a flat surface.

## ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products.

If you're in the US and would like to contact our Customer Care department directly, please visit: www2.oregonscientific.com/service/support.asp
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For international inquiries, please visit: www2.oregonscientific.com/about/international.asp.

## FCC STATEMENT

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.

## 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 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.

## DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at www.oregonscientific.com or on the warranty card for this product) for all inquiries instead.
**We**
Name:        Oregon Scientific, Inc.
Address:     19861 SW 95th Place, Tualatin, Oregon 97062 USA

## DECLARE THAT THE PRODUCT

Product No.:     IWA-80004
Product Name:    ADVANCED WEATHER STATION

is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

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