

# JUMBO RF WALL CLOCK

## WITH INDOOR - **OUTDOOR** THERMOMETER

*MODEL NO.: JMR828A*

### Instruction Manual

#### INTRODUCTION

Congratulations on purchasing the Jumbo RF Wall Clock with Indoor-**Outdoor** Thermometer (JMR828A).

The JMR828A is a multifunctional radio frequency (RF) controlled clock. It is designed to automatically synchronize its current time and date when brought within range of the radio signal generated from the U.S Atomic clock.

Also, this unit displays outdoor and indoor temperature.


Included in this package is a remote thermo-sensor. Place the thermo-sensor in a sheltered outdoor location within a **100 feet (30 meters)** radius of the main unit and it will transmit outdoor temperature readings to the JMR828A.

#### DESCRIPTION OF PARTS

**A MAIN UNIT**

**A1 Extra-large liquid crystal display (LCD)**


- Displays the time, date and day-of-the-week

**A2 [  ] Radio-reception signal**

Indicates the condition of radio reception

**A3 [  ] Low-battery indicator**

Activates when the battery power is low

**A4 [  ] Low- battery indicator (remote sensor)**

Activates when the remote-sensor battery power is low

**A5 Bottom line of LCD**

Displays indoor temperature /date / outdoor temperature

**A6 [ CHANNEL ]**

Toggles between different channels

**A7 [ CLOCK ] button**

Toggles between “seconds” and day-of-the-week displays or activates the calendar-clock setting mode

**A8 [ ▲ ] UP button**

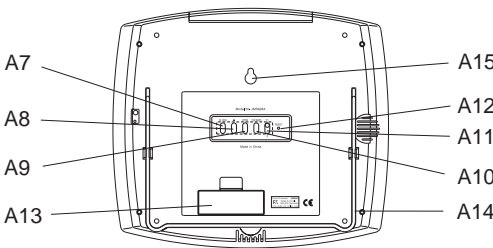
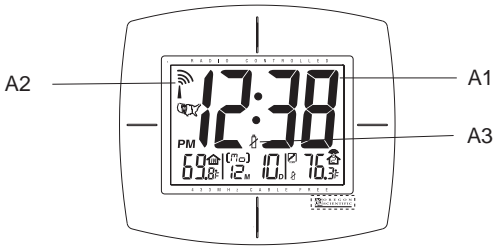
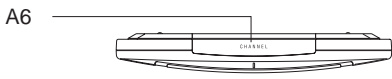
Increases the value of a setting

**A9 [ ZONE ] button**

Toggles among the 4 US time-zones: Pacific (P), Mountains (M), Central (C) or Eastern (E)

**A10 [ THERMO ] button**

Retrieves temperature information



**A11 [ °C/°F ] Slide Switch**

Toggles between Degree Celsius (°C) or Degree Fahrenheit (°F) temperature display unit

**A12 [ RESET ] Button**

Resets the unit by returning all settings to their default values

**A13 Battery Compartment**

Accommodates two UM-3 or AA-size 1.5V batteries

**A14 Table Stand**

For placing the unit on a flat surface

**A15 Wall-Mount Hole**

For mounting the unit on a wall

**B REMOTE THERMO SENSOR**

**B1 LCD**

Displays the current temperature monitored by the remote unit

**B2 LED indicator**

Flashes when the remote unit transmits data to the main display unit

**B3 °C/°F slide switch**

Selects between Centigrade (°C) and Fahrenheit (°F)

**B4 [ ] Low-battery indicator**

Appears when the battery power is low

**B5 RESET button**

Returns all settings to default values

**B6 Battery compartment**

Accommodates two UM-3 or AA size batteries

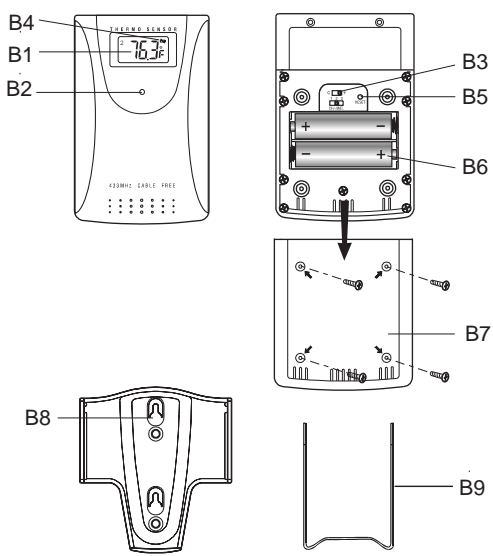
**B7 BATTERY DOOR**

**B8 Wall-mount holder**

Use to mount remote sensor on a wall

**B9 Removable table-stand**

For standing the remote unit on a flat surface



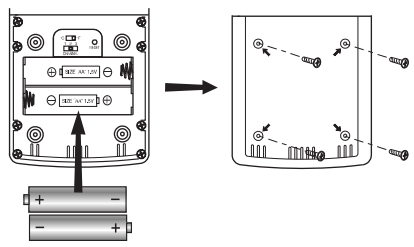
*Note: The effective range may be limited by building materials and the position of either the main unit or the remote thermo-sensor unit. Try various set-up arrangements for best result.*

**Setting up the thermo-sensor unit:**

1. Position the remote sensor within the signal transmission range of the main display unit. The maximum transmission range is 100 feet (30 metres).
2. Remove the screws of the battery door on the remote thermo-sensor unit.
3. Select display of temperature in either °C or °F using the °C/°F slide switch.



4. Install into the thermo-sensor unit, two UM-3 or "AA" size 1.5V batteries strictly according to the polarities shown.



5. Replace the battery compartment door and secure its screws.

*Note: Though the sensor is splash proof and is meant for use outside, it should be placed away from direct sunlight, rain, or snow.*

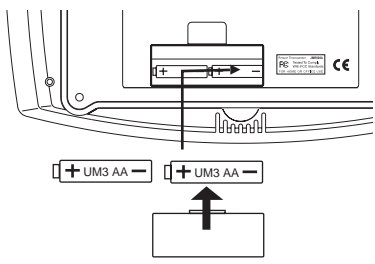
Once the batteries have been inserted into the remote thermo-sensor unit, batteries can now be inserted into the main unit.

**BATTERY INSTALLATION : MAIN UNIT**

This unit requires two (2) UM-3 or "AA" size batteries for operation.

**How to insert batteries into the main unit:**


1. Press the door tab and click-open the door.
2. Insert the batteries strictly according to the polarities shown therein.




**BATTERY INSTALLATION AND REMOTE THERMO-SENSOR SETUP**

Follow this step-by-step procedure for installing batteries and setting up the remote-sensor unit. Successful setup should ensure that temperature signals are properly received.

3. Replace the door so that it clicks into place.


 **Note:** If not disposed of properly, batteries can be harmful. Protect the environment by taking exhausted batteries to authorized disposal stations.

**Note:** [  ] **Low-battery** indicator  
Replace the batteries when the **Low-battery** indicator lights up.





### ABOUT RADIO RECEPTION

The **JMR828A** is a radio frequency (RF) controlled clock. When located within radio signal range from the U.S Atomic Clock, the clock time will automatically synchronize with time-signal transmission. The benefit of a RF controlled clock is that highly-accurate time is maintained and manual adjustments to the time and date are not required.

When the batteries are first installed, the **JMR828A** will automatically search for a radio signal.

When in search mode, the antenna icon [  ] will blink. This process takes between two (2) and (10) minutes. After initial search and synchronization with the Atomic clock, short periodic reception-signal scans will commence several times a day.

The antenna icon indicates the quality of reception.

|   |              |
|---|--------------|
|  | STRONG       |
|  | WEAK         |
|  | NO RECEPTION |
|  | RECEIVING    |

To deactivate the auto-reception of the radio signal, press and hold [ **ZONE** ] for 2 seconds and the antenna icon will disappear. To enable this auto-reception again, press and hold [ **▲** ] for 2 seconds. The antenna icon will re-appear.

### Interference

Reception can be affected by a number of factors. For best reception, place the device away from metal objects and electrical appliances.

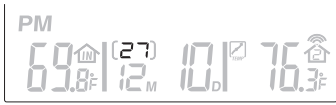
**Note:** Interference from sources such as TV sets can affect the signal. If, after batteries have been inserted for ten minutes, the **radio** signal is not received, then set the time manually (see section: How To Set The Calendar Clock Manually).

### “SECONDS” AND DAY-OF-THE-WEEK DISPLAY

The “second” and the day-of-the-week share the same section of the display.



day-of-the-week display



“second” display

The day-of-the-week is displayed as an abbreviation in three languages.

| Language | Day-of-the-week |         |      |          |        |          |        |
|----------|-----------------|---------|------|----------|--------|----------|--------|
|          | Monday          | Tuesday | Wed. | Thursday | Friday | Saturday | Sunday |
| English  | M               | Tu      | We   | Th       | Fr     | Sa       | Su     |
| Spanish  | L               | Ma      | Mi   | Ju       | Vi     | Sa       | Do     |
| French   | L               | Ma      | Me   | Je       | Ve     | Sa       | Di     |

To change the “seconds” display to the day-of-the-week display:

1. When the “seconds” are displayed, press [ **CLOCK** ] once.

To change the day-of-the-week display to the “seconds” display:

1. When the day-of-the-week is displayed, press [ **CLOCK** ] once.

### HOW TO SET THE CALENDAR CLOCK MANUALLY

When the unit is outside of the radio signal generated from the U.S Atomic Clock, the unit may require manual setting.

**Note:** The RF controlled mechanism overrides manual settings unless auto-reception of radio signal is being deactivated. If manual settings are made, the clock will periodically adjust the time to what is indicated by the radio signal.

It is highly unlikely you should ever have the desire (or need) to manually set the clock time, year, month or date of the JMR828A when it is within signal range of the Atomic clock.

However, in the event this becomes necessary please review the following.

### To manually set the clock:

1. Press **[CLOCK]** and hold for two seconds. The **hour** will start to flash.
2. Enter the correct **hour** using the **[▲]** button. Hold to rapidly increase the value.
3. Press **[CLOCK]** to confirm and proceed to set the **minute**. Again, use the **[▲]** button to select the correct **minute**.
4. Press **[CLOCK]** to proceed to **set the year, month, day and language for day - of - week**.
5. When finished, press **[CLOCK]**. The time and date are now set.
6. To select the U.S. time - zone, press **[ZONE]** to toggle among Pacific(P), Mountains (M), Central(C) or Eastern (E).

### TEMPERATURE DISPLAY

This unit displays temperature in °C or °F



*temperature display*

The remote **outdoor** temperature display has a kinetic-wave display.

The kinetic-wave display shows the signal-receiving status by the main unit. There are three possible forms.

|   |   |
|---|---|
| The unit is in searching mode.                | . |
| Temperature readings are securely registered. | . |
| No signals                                    | . |

*NOTE: JMR828A can also scan for max 3 different remote temperature channels. To do so, simply press the CHANNEL button once to switch to the different channel.*

### SENSOR TRANSMISSION STATUS

If blanks "----" appear on the remote temperature display of the main, then the unit is not receiving a signal from the remote thermo sensor. The user may be able to receive a signal by **doing** a signal search.

#### Remote Sensor Signal Search:

Press **[THERMO]** and **[CHANNEL]** together for 2 seconds. The unit will search for a remote thermo-sensor signal.

If the unit still cannot receive a signal, check the batteries to ensure they are properly installed and have ample power. Try repositioning the units as they might be having a temperature transmission block due to signal interference.

**Note:**

Reasons for not receiving a signal from the remote thermo sensor may include:

1. The batteries of the remote sensor, the main unit, or both may be low. **Low-battery** icons should indicate that battery power is low and the batteries require changing.
  - When the temperature falls below freezing point, the batteries will freeze. Frozen batteries will have a lower voltage and result in a lower transmission radius.
2. The transmission range is too far.
  - Shorten the distance.
3. The transmission path is cluttered with obstacles and interference.
  - Shorten the distance or reposition the remote sensor or the main unit.

### TEMPERATURE TREND INDICATORS

The temperature-trend indicator shows the trends of the collected remote temperature readings for the past half hour. Arrows indicate a rising, steady or falling trend.

| Arrow indicator   |        |        |         |
|-------------------|--------|--------|---------|
| Temperature Trend | Rising | Steady | Falling |

*Note : If the reading goes above or below the measuring range of the remote unit (stated in specification), the display will show "HHH" or "LLL".*

### HOW TO RESET THE UNIT

Press **[RESET]** to return all settings to the factory values.

The button is **used** when the unit is not operating in a favorable way, such as in the rare case of a malfunction.

### HOW TO WALL MOUNT OR USE TABLE STAND

#### MAIN UNIT

Flip the table stand open to place the unit on a steady, flat surface. Or use the recessed hole on the back to mount it on a wall.

Wall-mount

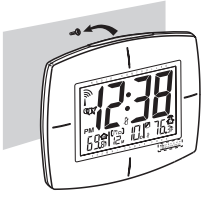
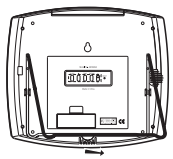
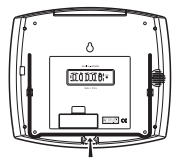


Table Stand



**SPECIFICATIONS**

MAIN UNIT

**Clock Functions**

- Radio Control : Auto synchronizes current time and date by Radio signal from **the U.S. Atomic Clock**
- Calendar : Day of week in English / French / Spanish  
**Current month / day format**
- Clock Time : **12-hour format**
- Accuracy : +/- 0.5 second/day  
**(when RF is disabled)**

**General specification**

- Power : **Two (2) UM-3 or "AA" size 1.5V battery**
- Unit Dimension : **10.51x8.03x1.42 inches (267x204x36mm)**
- Unit Weight : **approx. 23.28 ounces (660 gms.) (without batteries)**

**Indoor Temperature Measurement**

- Temperature**
- Measuring Range** : **23°F to 122°F (-5°C to 50 °C)**
- Temperature Resolution** : **32.2 °F(0.1 °C)**

REMOTE THERMO SENSOR

This sensor comes with a wall-mount holder and a removable stand. Use either to hold the unit in place.

Wall-mount

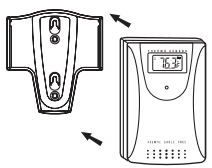
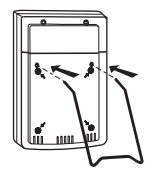


Table Stand



**MAINTENANCE**

When handled properly, this unit is engineered to give you years of satisfactory service.

**Here are several product-care suggestions:**

1. Do not immerse the unit in water. If the unit comes in contact with a liquid, dry it immediately with a soft lint-free cloth.
2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.
4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.
6. Read this instruction manual thoroughly before operating the unit.

REMOTE THERMO SENSOR

- Remote Temperature Measuring Range** : **-4°F to 140°F (-20°C to 60 °C)**
- Temperature resolution** : **32.2 °F(0.1 °C)**
- RF Transmission Frequency** : **433 MHz**
- RF Transmission Range** : **Maximum 100 feet (30 meters)**
- Power** : **Two (2) UM-3 or "AA" 1.5V battery**
- Weight** : **3.53 ounces (100gms) (without batteries)**
- Dimension** : **3.62x2.36x.83 inches (92x60x21mm)**

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## NOTE ON COMPLIANCE

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**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.

### **FCC:**

**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 needed.
- Consult the dealer of an experienced radio/TV technician for help.

**Company Name:** Oregon Scientific, Inc.

**Address:** 19861 SW 95th Place, Tualatin, Oregon 97062, USA

**Website address:** [www.oregonscientific.com](http://www.oregonscientific.com).

**Name and model number of the product:** Jumbo RF wall Clock with indoor - outdoor Thermometer JMR828A

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## CUSTOMER ASSISTANCE

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Should you require assistance regarding this product and its operation, please contact our customer care department at

**800-853-8883** or via email at [helpme@oscientific.com](mailto:helpme@oscientific.com). Our customer care department is available 24-7-365.

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## WARRANTY

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This product is warranted to be free of manufacturing defects for a period of 3 months from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange.

Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Please retain your retail receipt as you may be asked to provide a copy of it for proof of date purchased.

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.

**Upon return of the defective product, Oregon Scientific will at its discretion, replace the product with either a new or a tested reconditioned product. Should the product be out of warranty, the consumer may purchase directly from Oregon Scientific a replacement at reasonable cost plus shipping and handling.**

### CAUTION

- The content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.



*MODEL: JMR828A*

**JUMBO RF WALL CLOCK  
WITH INDOOR-OUTDOOR THERMOMETER**

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**Instruction Manual**

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**Mode D'emploi**

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**Bedienungsanleitung**

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**Manuale di Istruzioni**

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**Instrucciones de Funcionamiento**