



**Jumbo RF Wall Clock with Night Sensor**  
**Model: JMR868 / NR868**  
**User Manual**



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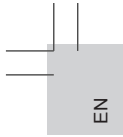
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**INTRODUCTION**

Thank you for selecting the Oregon Scientific™ Jumbo RF Wall Clock with Night Sensor. This device is designed to give you many years of reliable service, including the following conveniences:

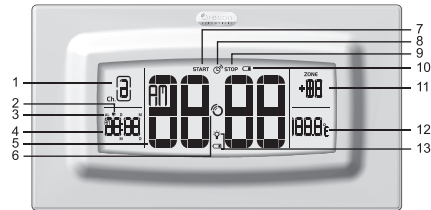
- Radio-Controlled Calendar Clock
- Temperature Display
- Nightlight with Motion Sensor
- Sensor or Manual Activated Backlight
- Time Zone Offset Function
- 2-Minute Crescendo Alarm
- Hourly Chime Function
- Day of the Week in 1 of 5 Languages
- Wall Mount and Table Stand

Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know.



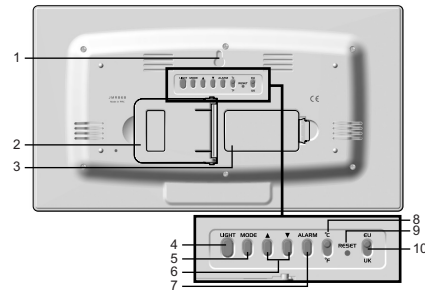
## KEY FEATURES - MAIN UNIT

### FRONT VIEW / LCD SYMBOLS



- 1. Channel 1 / 2**
  - Ch.1 or Ch.2 will appear when the related remote nightlight sensor has been activated.
- 2. Alarm On Icon**
  - Appears when the alarm is enabled.
- 3. AL**
  - Appears when you are in the Alarm Display Mode.
- 4. Alarm / Calendar (DD / MM)**
  - Shows alarm time.
  - Shows the date in DD / MM or MM / DD format.
- 5. Time**
  - HH / MM, 12 / 24 Hour, AM / PM.
- 6. Radio Frequency (RF) Reception Icon**
  - Shows the strength of the reception signal.
- 7. Start**
  - Start-time for the remotely controlled backlight by nightlight with motion sensor.
- 8. Hourly Chime**
  - Appears when the hourly chime is enabled.
- 9. Stop**
  - Stop-time for the remotely controlled backlight by nightlight with motion sensor.
- 10. Battery Low Icon**
  - Appears when the 2 clock batteries are low.
- 11. Time Zone Offset / Day of the Week**
  - Offsets the RF time setting when you are in a different time zone (+ / - 23 hours).
  - Name of the day in 1 of 5 languages.
- 12. Temperature**
  - °C / °F.
- 13. Light Icon with Battery Low Icon**
  - Appears when the 2 main backlight batteries are low.

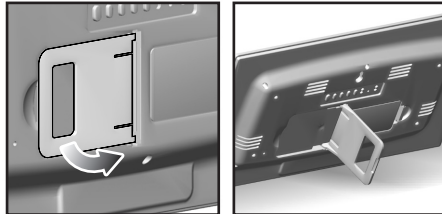
### BACK VIEW



- 1. Wall Mount Hole**
- 2. Table Stand**
- 3. Battery Compartment**
  - Uses 4 x UM-3 / AA 1.5V batteries.
- 4. LIGHT button**
  - Press to activate the clock backlight for 5 seconds.
- 5. MODE button**
  - Press to toggle between 3 clock displays.
  - Press and hold to enter Clock Setting Mode - time zone offset, 12- / 24-hour format, hour, minute, year, DD / MM or MM / DD format, month, day, day-of-the-week language and hourly chime on / off.
- 6. ARROW UP and ARROW DOWN buttons**
  - Press to increase / decrease the value of a setting (in any setting mode).
  - Press and hold to activate / deactivate the radio-reception (in normal Display Mode).
  - Press to activate / deactivate the alarm function when the respective alarm is selected.
- 7. ALARM button**
  - Press to toggle between 3 alarm displays.
  - Press and hold in the respective Alarm Display Mode to enter its Setting Mode for the daily alarm, clock Code for the remote nightlight sensor or, the remote-controlled backlight start and stop time.
- 8. °C / °F - Temperature**
  - Slide to select between °C / °F display format.
- 9. RESET**
  - Press to return all values to the default settings.
- 10. EU / UK switch**
  - Slide to select your nearest radio signal base i.e. England or Germany.

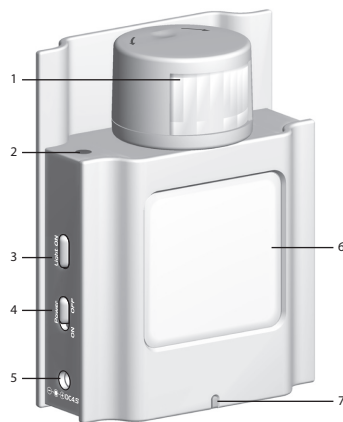
## TABLE STAND

The wall clock can be placed on a table using the table stand.



## KEY FEATURES - NIGHTLIGHT WITH MOTION SENSOR

### FRONT VIEW



#### 1. Rotary Motion Sensor

- Detects motion and activates the nightlight and clock backlight in accordance with the settings used.
- Twist the knob to direct the sensor to the position you want.

#### 2. Light Sensor

- Detects the light intensity of the environment.

#### 3. Light ON

- Press to turn the clock backlight ON for 10 seconds remotely.

#### 4. Power - ON / OFF

- Slide to the appropriate setting to turn the battery or AC power ON or OFF.

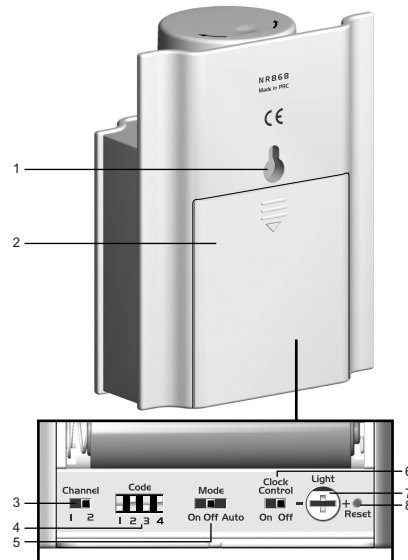
#### 5. 4.5V Adaptor Socket

#### 6. Light Panel

- When activated the panel will light up.

#### 7. LED Indicator

## BACK VIEW



#### 1. Wall Mount Hole

#### 2. Battery Compartment

- Uses 3 x UM-3 / AA 1.5V batteries.

#### 3. Channel 1 / 2

- Slide to select either Channel 1 or Channel 2.

#### 4. Code switch

- Slide to change the Code.

#### 5. Mode - On / Off / Auto

- Slide switch to ON - the nightlight will turn on in a dark room.
- Slide switch to OFF - the nightlight is turned off.
- Slide switch to AUTO - the nightlight will only be activated by motion in a dark room.

#### 6. Clock Control - On / Off

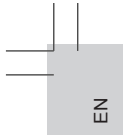
- Slide switch to ON - when motion is detected, the clock backlight will be activated.
- Slide switch to OFF - the clock backlight will not be activated by the motion sensor.

#### 7. + Light - Rotary knob

- Rotate to adjust the sensitivity of the light sensor.

#### 8. Reset button

- Press to reset the nightlight.



## SAFETY AND CARE

### SAFETY PRECAUTIONS

Please observe the following safety precautions when setting up and using this product.

- LCD panel - The LCD panel is made of glass, and may break if the unit is dropped.
- Heat sources - Keep the product away from heat sources, such as radiators, stoves, heaters, and other heat-generating products.
- Water and moisture - Do not use the product in or near water or in high moisture areas, such as a bathroom.
- Power source - The product may be susceptible to power surges. It should be unplugged during severe storms or whenever you will be away for a long time. Only use the type of power source specified in this manual. Do not overload power strips and extension cords, as this can cause a fire hazard.

### CARING FOR THIS PRODUCT

To ensure you receive the maximum benefit from using this product, please observe the following guidelines.

- Do not clean any part of the product with benzene, thinner or other solvent chemicals - this may cause permanent damage that is not covered by the guarantee. When necessary, clean it with a damp cloth.
- Keep your product away from hot, humid conditions or strong sunlight.
- Every effort has been made to ensure the highest standards of reliability for your wall clock with remote nightlight. However, if something does go wrong, please do not try to repair it yourself - consult your supplier.
- Do not use your product outdoors in the rain, or handle it with wet hands - water can damage electrical equipment.

## GETTING STARTED

### HOW YOUR CLOCK WORKS WITH THE NIGHTLIGHT - OVERVIEW

- The clock can be set independently to give you time, calendar and alarm facilities.
- The nightlight can be set independently to light up in the dark so you can see where you are going.
- The clock and nightlight can also be used together to turn the clock backlight on when you walk into a dark room, or wave your arm from the comfort of your bed. It can do this because the nightlight has 2 types of sensor. One sensor responds to light and the other responds to movement. From the clock unit you can set these sensors to be active during a certain period of time.

### PACKAGE CONTENTS

When you unpack your wall clock with remote nightlight, make sure you keep all the packing materials in a safe place, in case you need to later transport the device or return it for servicing.

In the box, you will find:

- Clock Unit
- Remote Nightlight
- 4 x UM-3 / AA 1.5V Batteries for the Clock
- 3 x UM-3 / AA 1.5V Batteries for the Nightlight
- 4.5V AC Adapter

### BATTERIES

The clock uses:

- 4 x UM-3 / AA 1.5V batteries.

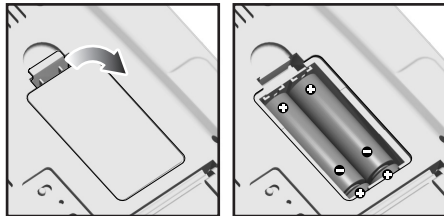
The nightlight uses:

- 3 x UM-3 / AA 1.5V batteries.

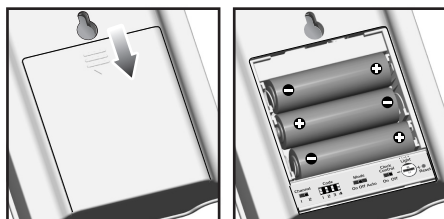
**NOTE** It is recommended that you use alkaline batteries with this product for longer performance.


To install the batteries, simply insert them making sure they match the correct polarities (+ and -).


Clock:



Nightlight:



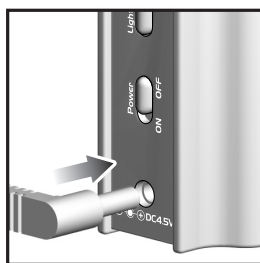
**NOTE** Replace the batteries whenever the low battery icon  is displayed. Change all the batteries at the same time - it is dangerous to mix old and new batteries. Protect your environment by taking exhausted batteries to authorized disposal stations.

 shows on the clock display when the batteries are low.

The LED indicator on the motion sensor will flash in red when the batteries are low.

#### AC ADAPTOR

The 4.5V AC adaptor connects to the nightlight as shown below.



**NOTE** The nightlight has a **Power ON / OFF** switch to help conserve power. Use the AC adaptor when using the nightlight for long periods of time. The batteries are a good power source for back-up usage.

#### ABOUT RADIO RECEPTION


This clock can automatically synchronize the date and time with official time-keeping organizations in Frankfurt (Germany) and Rugby (England). The unit can pick up an RF signal when it is within 1500km (932 miles) of these locations.

To select the most suitable radio signal for your location, slide the **EU / UK** switch to the appropriate setting. Press **RESET** whenever you change the selected setting.

**NOTE** For best results, place the unit away from metal or electrical objects, and near a window with a clear view to the sky.

#### TURNING THE RADIO RECEPTION ON / OFF

To turn the radio reception on:


- Press and hold the clock  button for 2 seconds.
- The RF reception icon will appear and flash on the display to indicate it is searching for the RF signal.

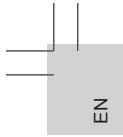
Once batteries have been installed in the clock, the reception icon will flash to indicate it is searching for a signal.

When the reception signal has been received the reception icon will show the signal strength by displaying between 0 and 3 waves:

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL
		

To turn the radio reception off:

- Press and hold the  button for 2 seconds.
- The RF reception icon will disappear from the display.



## CLOCK / CALENDAR

### CLOCK / CALENDAR DISPLAY

There are 3 types of clock display:



Calendar / Clock / Sec      Calendar / Clock / Day      Calendar / Clock / Offset Time

Press the **MODE** button to toggle between the 3 types of display.

### SETTING THE CLOCK / CALENDAR

Before you can manually set the clock and calendar, you must specify the current time zone you live in and the time format (12- or 24-hour) as follows:

1. Press and hold the **MODE** button for 2 seconds. The time zone offset hour digits will flash. When an offset hour has been set (e.g. +1, the time displayed will be the RF clock time plus 1 hour.)



2. Enter the value by pressing the **▲** or **▼** buttons.
3. Confirm the entry by pressing the **MODE** button. The 12- or 24-hour display format will flash.
4. Repeat (2) and confirm the entry by pressing the **MODE** button.
5. Repeat the above procedures to set the hour, minute, year, MM / DD or DD / MM format, month, day, day-of-the-week language and hourly chime (On / Off).

You can select 1 of the 5 following languages:

SYMBOL	LANGUAGE
E	English
Q	German
F	French
I	Italian
S	Spanish

### HOURLY CHIME

The hourly chime function when set to ON will beep once at the beginning of every hour, and the chime icon will show on the display.

### TEMPERATURE

To choose between °C / °F, slide the switch up or down to the setting you want.

The display can show indoor temperatures ranging from -5°C to +50°C (23°F to +122°F).

## ALARM

### ALARM DISPLAY

There are 3 types of alarm display:

Press the **ALARM** button to toggle between the 3 types of display.



Daily Alarm / Clock      Start Time for Backlight activated by Nightlight      Stop Time for Backlight activated by Nightlight

**IMPORTANT** When you press and hold **ALARM** for 2 seconds to enter the Setting Mode you need to make sure you are in the correct alarm display (see above for reference).

### SETTING THE ALARM

To set the alarm:


1. Press and hold the **ALARM** button for 2 seconds when the selected alarm is displayed. The hours will flash.
2. Enter the values by pressing **▲** or **▼**.
3. Confirm the entry by pressing the **ALARM** button.



4. The minutes will flash.
5. Repeat (2) and (3) to finish the setting. The alarm will be activated automatically and the alarm icon will appear on the display.

#### ACTIVATING / DEACTIVATING THE ALARM

To activate or deactivate the alarm:

1. Press the **ALARM** button.
2. Press the **▲** or **▼** button. When the alarm icon  appears on the display, the alarm is activated. When the alarm icon does not appear on the display, the alarm is deactivated.

#### ALARM SOUND

When activated, the alarm icon flashes, the backlight will come on for 8 seconds and a beeping noise starts quietly. The alarm gradually becomes louder until it crescendos at 2 minutes.

#### TURNING THE ALARM SOUND OFF

To turn the alarm sound off and automatically activate it again after 24 hours, press any of the following buttons:

- **MODE**
- **ALARM**
- **UP**
- **DOWN**

#### CLOCK BACKLIGHT

##### TO MANUALLY TURN THE BACKLIGHT ON

Press the **LIGHT** button on the clock, and the backlight will turn on for 5 seconds.

##### TO ACTIVATE THE BACKLIGHT USING THE MOTION / LIGHT SENSOR

The clock backlight can be set up for a certain period of time to turn on for 10 seconds when a movement is detected in a dark room. Simply:

1. Press the **ALARM** button twice to get to the Backlight Setting Display.



2. Press and hold the **ALARM** button for 2 seconds to enter the Backlight Setting Mode.
3. The Code setting will flash.




4. Press the **▲** or **▼** buttons to change the setting. (Make sure you select the Code setting that matches the Code switch in the back of the nightlight).
5. Confirm the entry by pressing the **ALARM** button.

6. The Motion Start Hour will flash.



7. Repeat (4) and (5).
8. Continue the above procedures to set the Motion Stop Hour.



9. When the  icon appears on the display, the function is activated. When the icon does not appear on the display, the function is deactivated.

**NOTE Light ON** – Press to turn the clock backlight ON for 10 seconds remotely.

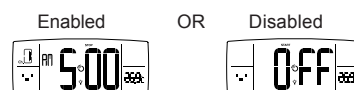
**NOTE** The nightlight **Clock Control** switch must be set to **On** for this function to work.

##### TO ENABLE / DISABLE THE REMOTE-CONTROLLED CLOCK BACKLIGHT

1. Press the **ALARM** button twice to reach the display below.



2. Press the **▲** or **▼** buttons to change the setting to either:



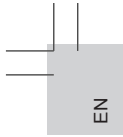
#### NIGHTLIGHT

##### ACTIVATING THE NIGHTLIGHT USING THE MODE BUTTON

The nightlight can be activated independently to the clock unit. You can set the nightlight to the following options:

1. Nightlight On - When the room is dark the nightlight will stay on.
  - Slide the **Mode** button to **On**.
2. Nightlight Off - The nightlight stays off all the time.
  - Slide the **Mode** button to **Off**.
3. Nightlight Auto - When the nightlight detects motion in a dark room, it will light up for 20 seconds.
  - Slide the **Mode** button to **Auto**.





**NOTE** When the motion sensor on the nightlight is turned on, it needs approximately 2 minutes to warm up before giving a response.

#### ACTIVATING THE CLOCK BACKLIGHT USING THE CONTROL BUTTON

You can control the backlight of the clock through the nightlight. You can set the backlight to the following options:

1. Control On - The clock backlight is controlled by the activation of the nightlight.
  - Slide the **Clock Control** switch to **On**.
2. Control Off - The nightlight does not control the clock backlight.
  - Slide the **Clock Control** switch to **Off**.

**NOTE** See the **Clock Backlight** section, which shows you how to set the nightlight sensors to be activated at times specified by you.

#### THE CODE SWITCH

The **Code** switch on the nightlight must be set to the same setting as the Code setting on the clock. The Code allows the nightlight to recognize the clock's settings.

#### THE CHANNEL SWITCH

Up to 2 nightlights can be linked to 1 wall clock. (An additional nightlight can be purchased separately.) By setting 1 nightlight to Channel 1 and the other to Channel 2, the clock display can tell you which sensor has been activated by flashing "ch. 1" or "ch.2" on the display.



#### + LIGHT - ROTARY KNOB

The light sensor's level of sensitivity can be adjusted. Turn the **Light** rotary knob towards + to make it more sensitive to light or - to make it less sensitive to light.

#### RESET BUTTON

Insert a thin blunt instrument into the hole below **Reset** to return to the default settings.

The default settings are:

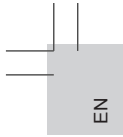
<b>Clock Time:</b>	12.00 PM
<b>Date:</b>	1st January 2004
<b>Time Offset:</b>	+0
<b>Alarm Time:</b>	6.00 AM
<b>Daily Alarm:</b>	Disabled
<b>Motion Alarm Start Time:</b>	12.00 AM
<b>Motion Alarm Stop Time:</b>	6.00 AM
<b>Motion Alarm:</b>	Disabled
<b>UK Display Setting:</b>	12hr, DD / MM, °C
<b>EU Display Setting:</b>	24hr, DD / MM, °C

## TECHNICAL SPECIFICATIONS

TYPE	DESCRIPTION
<b>Main Unit Dimensions</b>	
L x W x H	297 x 25 x 165 mm (11.69 x 0.98 x 6.5 inches)
Weight (without battery)	622 g (1.37 lbs)
<b>Remote Unit Dimensions</b>	
L x W x H	88 x 43 x 112 mm (3.46 x 1.69 x 4.41 inches)
Weight (without battery)	140 g (0.31 lbs)
<b>Temperature</b>	
Unit	°C / °F
Operating Range	0°C to +50°C (32°F to +122°F)
Indoor Range	-5°C to +50°C (23°F to +122°F)
Resolution	0.1°C (0.2°F)
<b>Main Unit RF</b>	
RF Clock Frequency System	DCF77 (EU) or MSF60 (UK)
RF Clock Synchronization	Auto or disabled
RF Frequency	433 MHz
Reception Range	30 metres (98 feet) with no obstructions
Synchronization	Auto or disabled
<b>Remote Unit</b>	
Motion Sensor Coverage Distance	Approx. 5 metres
Motion Sensor Warm-Up Time	Approx. 2 minutes after power-on
<b>Main Unit Display</b>	
Clock	HH:MM:SS HH:MM:Day of Week HH:MM:Time Zone Offset
Hour Format	12hr AM / PM (MSF Format) 24hr (DCF Format)
Calendar	DD / MM or MM / DD, user selectable. Weekday selection in 5 languages (E, D, F, I, S)
Alarm	2-minute crescendo
<b>Power</b>	
Main Unit	4 x UM-3 (AA) 1.5V batteries
Remote Unit	3 x UM-3 (AA) 1.5V batteries or 4.5V AC adaptor

**NOTE** Design and specifications are subject to change without notice.

**NOTE** It is recommended that you use alkaline batteries with this product for longer performance.



## TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Clock time is not correctly set	No radio signal reception	Place the main unit far away from PCs, phones, and other electronic equipment and near a windowsill. Wait for at least 24 hours
No alarm	Alarm does not sound	Turn on the alarm setting
Operation not normal	Certain functions do not perform	Reset the main unit and the remote nightlight
Calendar	Strange day	Check it is set to your own language
Clock	Cannot change clock	Disable the radio signal and set manually
Clock / calendar	Cannot auto-synchronize the clock	1. Adjust batteries 2. Press <b>Reset</b> on the main unit
Temperature	Shows "LLL" or "HHH"	Temperature is out of range
Remote nightlight	Does not activate the clock backlight	1. Adjust batteries / AC adaptor 2. Check <b>Control Clock</b> switch, is set to <b>On</b> 3. Check the <b>Code</b> switch on the nightlight matches the main unit Code display



## ABOUT OREGON SCIENTIFIC

Visit our website ([www.oregonscientific.com](http://www.oregonscientific.com)) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our customer care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on our website, however if you'd like to contact the Oregon Scientific Customer Care department directly, please visit:

[www2.oregonscientific.com/service/support](http://www2.oregonscientific.com/service/support)

OR

Call 949-608-2848 in the US.

For international enquiries, please visit:

[www2.oregonscientific.com/about/international/default.asp](http://www2.oregonscientific.com/about/international/default.asp)

## EC-DECLARATION OF CONFORMITY

This product contains the approved transmitter module that complies with the essential requirements of Article 3 of the R&TTE 1999 / 5 / EC Directive, if used as intended and the following standards have been applied:

### Safety of information technology equipment

(Article 3.1.a of the R&TTE Directive)

Applied Standard **EN 60950: 2000**

### Electromagnetic compatibility

(Article 3.1.b of the R&TTE Directive)

Applied Standards

**ETSI EN 301 489-1-3 (Ver.1.4.1) : 2002-08**

### Efficient use of radio frequency spectrum

(Article 3.2 of the R&TTE Directive)

Applied Standards

**ETSI EN 300 220-3 (Ver1.1.1) : 2000-09**

### Additional information:

The product herewith complies with the requirements of the Low Voltage Directive 73 / 23 / EC, the EMC Directive 89 / 336 / EC and carries the CE marking accordingly.



Carmelo Cubito

Agrate Brianza (MI) / Italy January 2004

Manufacturer's EU R&TTE Representative



### COUNTRIES RTTE APPROVAL COMPLIED

All EC countries, Switzerland (CH)

and Norway (N)



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