Oregon Scientific™ JUMBO RF CLOCK with Indoor Thermometer (JM889/JM889U)

User Manual

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INTRODUCTION

Thank you for selecting the Oregon Scientific™ Jumbo RF Clock with Indoor Thermometer as your product of choice. This device is designed to give you many years of reliable service, including the following conveniences:

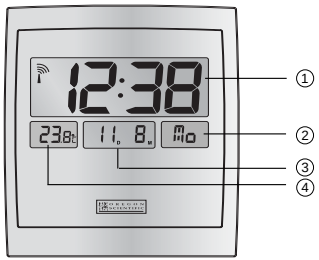
- **Radio-Controlled Calendar Clock***
- **Indoor Temperature Display**
- **Daily Alarm**

*Automatically synchronizes the current time and date when it is brought within range of the radio signal MSF60 generated from Rugby, England (model JM889U) or DCF77 generated from Frankfurt, Germany for Central Europe (model JM889).

In addition to providing step-by-step instructions for this product, this manual contains important safety and care information. Read the manual thoroughly, and keep it in a safe place in case you need to refer to it.

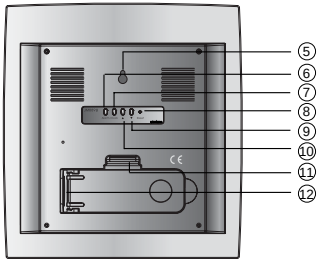
KEY FEATURES

Front View



1. **Main LCD Display**
   Displays current time and RF signal reception indication
2. **Seconds/Day-of-Week Display**
   Can select between seconds or day-of-week display
3. **Current Date/Alarm Time Display**
   Can select between current date or alarm time display
4. **Indoor Temperature Display**
   Displays currently monitored indoor temperature

Back View

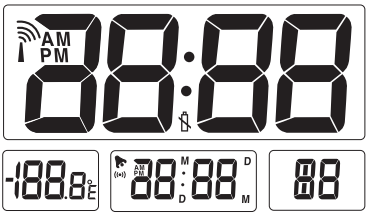


5. **Wall-Mount Recess Hole**
   For mounting the unit to a wall
6. **Alarm Button**
   To display and adjust alarm time
7. **Clock Button**
   To manually adjust current time and date
8. **Reset Hole**
   Returns all settings to default values.
9. **▼ button**
   Used to adjust settings down one notch or to enable/disable RF radio reception
10. **▲ button**
    Used to adjust settings up one notch or to enable/disable RF radio reception
11. **Battery Compartment**
    The unit uses 2 AA/UM-3 1.5V batteries for power.

12. Table Stand

Can be pulled out and used to stand the unit on a flat surface

LCD Display Symbols



Icon	Description	Explanation
	Radio Reception Signal	Indicates the condition of radio reception.
	Low Battery	Appears when power is low.
	Alarm-on	Appears when alarm is activated.
	Alarm Time Indicator	Appears when alarm time is displayed.

SAFETY AND CARE INSTRUCTIONS

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 or impacted.
- 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.

Caring for your Product

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

- Cleaning - Use a damp cloth. Do not use liquid cleaning agents, benzene, thinner, or aerosols.
- Ventilation - The vents and other openings are designed for ventilation, and should not be blocked or covered. Blocking the vents can cause the product to overheat, and can damage the unit.
- Repair - Do not attempt to repair the product or modify the circuitry by yourself. Contact the retailer or a qualified repairman if the product requires servicing. Only use replacement parts that are recommended by the manufacturer.
- Do not scratch hard objects against the LCD display as this may cause damage.

GETTING STARTED

Unpacking the product

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

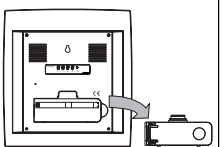
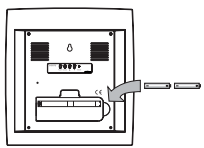
In the box, you will find:

Clock unit	Batteries	User manual
		

Batteries

NOTE When using the product for the first time, please note that the batteries have already been installed in the unit. To operate, locate the clear plastic battery tab inside the battery compartment and remove it.

To load the batteries:

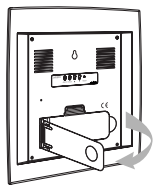
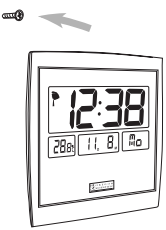
Diagram	Instructions
	1. Locate the battery compartment.
	2. Install the batteries by matching the correct polarity. Always use the correct battery type (2 UM-3 AA-sized 1.5V batteries). **Warning:** Reversing the polarity may damage the product.

NOTE Replace the batteries whenever the weak battery mark ( ) is shown, the display is dim, or the display does not illuminate when the power is on. Replace all the batteries at the same time - it is dangerous to mix old and new batteries.

Contact your local waste disposal authority for instructions on how to dispose of used batteries. Used batteries can be harmful to the environment, and should not be thrown out with household trash.

Placement of Unit

You can either mount the main unit on a wall or make it stand on a flat surface.

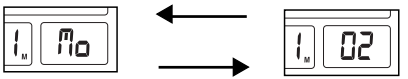
Method	Instruction	Diagram
Table Stand	The unit is already equipped with a Table Stand. Simply pull out the Table Stand and rest the main unit on a flat surface.	
Wall Mount	The main unit can be mounted onto a wall using a No. 6 screw (3.0mm). a) Position and nail the screw into the place where you would like to hang your main unit. b) Leave ample space between the wall and the screw head while testing to make sure the nail is secure. c) Fit the unit's Wall-Mount Recess Hole onto the screw head.	

Indoor Temperature Display

Soon after the clear plastic battery tab has been removed, the unit immediately reads and displays the surrounding indoor temperature.

Toggling between Seconds/Day-of-Week Display

To toggle between displaying seconds or day-of-week on the LCD screen, press the **CLOCK** button.



RADIO RECEPTION

This product is designed to synchronize its calendar clock automatically once it is brought within range of the radio signal. When the unit is receiving the signal, the Radio Reception symbol with start to blink. Generally, complete reception takes around 2 to 10 minutes, depending on the strength of the signal.

Radio Reception Description

Radio Reception	Description
	Strong reception of radio clock signal.
	Weak reception of radio clock signal.
	No reception of the radio clock signal.
	Receiving the radio clock signal.
	Radio Reception is disabled.

NOTE Reception can be affected by a number of factors. For best reception, place the device away from metal objects and electrical appliances. Other causes for signal interference include electrical transmission tower, steel reinforced construction, and metal siding. Reception is ideal when placed near a window.

Even though there are areas that may have more difficulty in receiving a signal, the Atomic Clock contains accurate quartz movement and will retain precise timing if the signal is missed on a rare occasion.

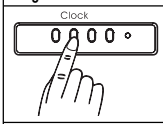
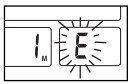
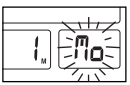
Enabling/Disabling Radio Reception

To manually disable the reception of the RF signal, press and hold the **[UP ▲] and [DOWN ▼]** buttons simultaneously for 2 seconds until the Radio Reception symbol completely disappears.

To enable the reception again, press and hold **[UP ▲] and [DOWN ▼]** buttons simultaneously for 2 seconds. The Radio Reception symbol will blink and the unit will search for the RF signal automatically.

TO SET THE CLOCK MANUALLY

NOTE To adjust the clock settings manually without automatic RF synchronization, remember to disable the Radio Reception first. Press once or press and hold the **[UP▲]** or **[DOWN▼]** buttons to adjust the value of each setting.

Diagram	Instructions
	1. Press and hold the **CLOCK** button for 2 seconds.
	2. Adjust the current month. Press **CLOCK** when done.
	3. Adjust the current date. Press **CLOCK** when done.
	4. Choose the language displayed for the day-of-week. Press **CLOCK** when done.
	5. Choose the current day-of-week. Press **CLOCK** when done.
	6. Adjust the current hour. Press CLOCK when done.
	7. Adjust the current minute. Press CLOCK when done.
	8. LCD Display returns to normal clock operation.

Language Options

The main unit can display the weekday in five different selectable languages.

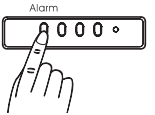
Symbol	Language
E	English
D	German
F	French
I	Italian
S	Spanish

ALARM FUNCTIONS

Basic Functions

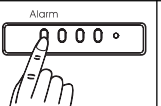
Your product can also be used as an alarm clock.

1. When the alarm goes off, you can turn it off by pressing ALARM.
2. The alarm will automatically stop ringing after 1 minute. But after 8 minutes, the alarm will sound again unless ALARM is pressed.



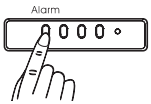
Displaying Alarm Time

By default, the unit's LCD screen displays the current date and month. To display the alarm time instead:

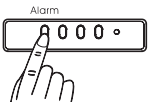
Diagram	Instructions
	1. LCD screen displays the current date and month.
	2. Press the **ALARM** button.
	3. The currently set Alarm Time is now displayed.

Adjusting the Alarm Time

To adjust the Alarm Time, make sure that the Alarm Time is currently displayed on the LCD screen.

Diagram	Instructions
	1. Press and hold the **ALARM** button for 2 seconds.
	2. Adjust the hour of the Alarm Time. Press **ALARM** when done.
	3. Adjust the minute of the Alarm Time. Press **ALARM** when done.
	4. Adjusted Alarm Time now displayed.

Activating / Deactivating the Alarm

Diagram	Instructions
	1. LCD screen displays Alarm Time. If is displayed, the alarm is enabled. Otherwise it is disabled.
	2. Press ALARM button to enable or disable the alarm.

RESET HOLE

If the clock behaves strangely or stops responding, insert and press a blunt stylus into the clock's Reset Hole. The clock will then be reset to its original factory setting.

TROUBLESHOOTING GUIDE

This section includes a list of frequently asked questions for problems you may encounter. If your device is not operating as you think it should, check here before arranging for servicing.

Problem	Symptom	Check This	Remedy
Radio antenna not displayed on LCD screen.	The RF signal cannot be received.	Obstacles (either electromagnetic interference or objects) are barring the signal from reaching the main unit.	Move the unit away from any sources of interference, including other electronic devices.
displayed on LCD screen.	Batteries of the unit are low.	Check LCD Display of the unit.	Install new batteries into the unit.
Clock time is not correctly set.	No radio signal reception.	Electromagnetic interference or objects are barring reception. Orientation or placement of main unit is not optimum for receiving the RF signal.	Place the main unit far away from PCs, phones, and other electronic equipment.
No Alarm	Alarm does not sound.	Alarm is disabled.	Turn on the alarm setting.
Operation Not Normal	Certain functions do not perform.	Device requires reset.	Reset the unit with a blunt stylus pressed against the **RESET** Hole.

SPECIFICATIONS

Dimensions:

Width x Height x Depth	234mm x 220mm x 23mm
Weight	426g (without batteries)

Radio frequency:

System	DCF77 (JM889) or MSF60 (JM889U)

Display:

Time format	24 Hour (JM889) or 12-Hour AM/PM (JM889U)
Date format	DD-MM
Day-of-week display	In English, French, German, Spanish, and Italian
Clock accuracy	+/-0.5 second per day (when RF is disabled)

Alarm:

Alarm Duration	1 minute

Power:

Power supply	2 x UM-3 / AA 1.5V batteries

Operating environment:

Operation temperature	-5.0℃ to +50.0℃
Temperature resolution	0.1℃
Default temperature unit	℃

WARNINGS

To ensure you use your product correctly and safely, read these Warnings and the entire user manual before using the product. The warnings given here provide important safety information and should be observed at all times.

WARNINGS

- Do not attempt to repair the product yourself. Contact the retailer or our customer service department if it requires servicing.
- Take precautions when handling all battery types. They can cause injuries, burns, or property damage as a result of contact with conducting materials, heat, corrosive materials or explosives. Remove the batteries before storing the product for long periods of time.
- The product is a precision instrument. Never attempt to take this device apart. There is a serious danger of powerful electric shocks.
- Do not immerse the device in water.
- Do not, under any circumstances, touch the exposed electronic circuitry of the device as there is a danger of electric shock should it become exposed.
- Take special care when handling a damaged LCD display, as the liquid crystals can be harmful to your health.
- Do not use or store the device, including the remote sensor, in locations that may adversely affect the product such as rain, snow, desert, and magnetic fields.

- Do not use this device in aircrafts or hospitals. The use of radio frequency products can cause malfunctions in the control devices of other equipment.
- Do not subject the product to impact or shock.
- Check all major functions when the device is unused for a long period of time. This is to ensure its full operation. Maintain a regular internal testing and cleaning of your device.

ADDITIONAL RESOURCES

Visit our website (www.oregonscientific.com) to learn more about your product and other Oregon Scientific™ products such as digital cameras, hand-held organizers, alarm clocks, and weather stations. The website also includes contact information for our customer service department, in case you need to reach us.

EC-DECLARATION OF CONFORMITY

This product complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

Efficient use of radio frequency spectrum
(Article 3.2 of the R&TTE Directive)
applied standard(s) **N / A**

Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
applied standard(s) **ETS 300 683:1997**

Safety of information technology equipment
(Article 3.1.a of the R&TTE directive)
applied standard(s) **EN 60950:1997**

Additional information:

The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC(appendix II) and carries the respective CE marking.

VS-Villingen / Germany August 2001
Gerhard Preis
EC representative of manufacturer

CE

RTTE Compliant Countries :
All EU countries, Switzerland (CH)
And Norway (N)