Wireless Thermometer &
Atomic Alarm Clock
Model : RMR602A
User Manual
INTRODUCTION

Thank you for selecting the Oregon Scientific™ Wireless Thermo Clock (RMR602A). This device bundles precise time keeping, alarm, and temperature monitoring features into a single tool you can use from the convenience of your home.

In this box, you will find:

- Main unit
- Remote sensor

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.

ABOUT OREGON SCIENTIFIC

Visit our website (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 or call 949-608-2848 in the US. For international enquiries, please visit www2.oregonscientific.com/about/international/default.asp.”
PRODUCT OVERVIEW

FRONT VIEW

1. **Outdoor Temperature Area**: Readings, sensor battery and reception status
2. **Indoor Temperature Area**: Readings and main unit battery status.
3. **Clock / Alarm Area**: Time, day of week, month, date, alarm
4. ▲: Press to increase setting or enable Atomic Clock signal reception / alarm
5. ▼: Press to decrease setting or disable Atomic Clock signal reception / alarm
6. **MODE**: Press to change display / settings
7. **MEM**: Press to view current or saved max / min temperature readings
8. (□□): Press to view alarm settings
1. Wall mount
2. Battery compartment
3. °C / °F switch
4. **RESET** hole
5. **SEARCH** button
6. Table stand
1. LED Status indicator
2. Battery compartment
3. Battery compartment cover

1. Wall mount hole
2. Battery compartment
3. Battery compartment cover
GETTING STARTED

BATTERIES

Batteries are not supplied with this product. You will need to purchase 2 x UM-4 (AAA) 1.5V alkaline batteries for the main unit, and 2 x UM-3 (AA) 1.5V alkaline batteries for the remote sensor.

Insert batteries before first use, matching the polarity as shown in the battery compartment. For best results, install batteries in the remote sensor before the main unit. Press RESET after each battery change.

NOTE: Do not use rechargeable batteries.

shows when batteries are low.

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main</td>
<td>Indoor Temperature Area</td>
</tr>
<tr>
<td>Remote</td>
<td>Outdoor Temperature Area</td>
</tr>
</tbody>
</table>

CHANGE SETTINGS

1. Press and hold MODE for 2 seconds to enter setting mode.
2. Press UP or DOWN to change settings.
3. Press MODE to confirm.

TABLE STAND OR WALL MOUNT

Use the stand on the back of the product, or mount it on a wall with a nail.

REMOTE SENSOR

This product is shipped with a remote sensor that collects temperature readings. Only one sensor can be used with this product.
SETUP SENSOR

1. Open the remote sensor battery compartment with a small Phillips screwdriver.
2. Insert the batteries, matching the polarity as shown in the battery compartment.
3. Place the sensor near the main unit. Press **RESET**, then **SEARCH**, on the main unit to initiate signal sending between the sensor and the main unit. The reception icon on the main unit will blink for approximately 3 minutes while it is searching for the sensor. (Refer to the Sensor Data Transmission section for more information.)
4. Close the remote sensor battery compartment.
5. Secure the sensor in the desired location using the wall mount or table stand.

For best results:
- Insert the batteries before you mount the sensor.
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 30 meters (98 feet) from the main (indoor) unit.
- Position the sensor so that it faces the main (indoor) unit, minimizing obstructions such as doors, walls, and furniture.
- Place the sensor in a location with a clear view to the sky, away from metallic or electronic objects.
- Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.

You may need to experiment with various locations to get the best results.
To search for the sensor, press SEARCH. The SEARCH button is located in the main unit battery compartment.

**NOTE**: If the sensor is still not found, check the batteries, obstructions, and remote unit location.

**NOTE**: Signals from household devices such as doorbells, electronic garage doors, and home security systems may cause temporary reception failure. This is normal and does not affect general product performance. The reception will resume once the interference ends.

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**DATA TRANSMISSION**

Data is sent from the sensor(s) every 78 seconds. The reception icon shown in the Outdoor Temperature Area shows the status.

<table>
<thead>
<tr>
<th>ICON</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>📰 → 📰 → 📰</td>
<td>Main unit is searching for sensor.</td>
</tr>
<tr>
<td>📰 → 📰</td>
<td>Sensor signal is steady.</td>
</tr>
<tr>
<td>--- shows</td>
<td>The sensor cannot be found. Search for the sensor or check batteries.</td>
</tr>
</tbody>
</table>

**SEARCH FOR SENSOR**

To search for the sensor, press SEARCH. The SEARCH button is located in the main unit battery compartment.

**NOTE**: If the sensor is still not found, check the batteries, obstructions, and remote unit location.

**NOTE**: Signals from household devices such as doorbells, electronic garage doors, and home security systems may cause temporary reception failure. This is normal and does not affect general product performance. The reception will resume once the interference ends.

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**CLOCK**

This product has two displays: Clock with day of week in German, English, French, Italian, or Spanish, and Calendar display with month and date. The time is automatically updated by the US Atomic Clock in Boulder, Colorado unless you disable this feature. Signals are collected by the main unit when it is within 1500 km (932 miles) of a signal.

Initial reception takes 2 - 10 minutes, and is initiated when you first setup the unit, and whenever you press **RESET**. Once complete, the reception icon will stop blinking. The icon is shown in the Clock Area.

<table>
<thead>
<tr>
<th>Strong signal</th>
<th>Weak signal</th>
<th>No signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>📰</td>
<td>📰</td>
<td>📰</td>
</tr>
</tbody>
</table>

To force a manual search for Atomic Clock signals, press and hold **UP** for 2 seconds. If no signal is found, check the batteries.

**NOTE**: If the Atomic Clock signal is received and the hour is incorrect, use the "hour offset" feature to adjust it to the right value. Please see "SET CLOCK" on pg. 9 for instructions.
**TURN ATOMIC CLOCK ON/OFF**
Perform this step if you cannot receive Atomic Clock signals. Press and hold **DOWN** for 2 seconds. Then, manually set the clock following the "Set Clock" instructions (below).

The signal icon indicates that the Atomic Clock feature is ON. No icon means that it is OFF.

**SET CLOCK**
You only need to do this if you have disabled the Atomic Clock feature (for example, if you are too far from or cannot receive a signal).

1. Press and hold **MODE** for 2 seconds. The Clock Area will blink.
2. Select the hour offset (-9 to +9), hour display format (12 or 24 hour), hour, minute, year, month, day, and language. Press **UP** or **DOWN** to change the setting. Press **MODE** to confirm.

**SWITCH CLOCK DISPLAY**
Press **MODE** to toggle between Calendar and Clock display with Hour Offset, Seconds, or Weekday.

**ALARM**
This product has 2 alarms: a Single Alarm and a Weekday Alarm. The Single Alarm can be set to go off at a specific time for a one-time event (for example, if you are napping on Saturday). The Weekday Alarm will sound at the same time Monday - Friday (but not on weekends).

**VIEW ALARM SETTINGS**
Press (**.) to display the Alarm settings you wish to view: ☎ Weekday or ☎ Single.

**SET ALARM**
1. Press (**.) to display the type of Alarm you wish to set: ☎ Weekday or ☎ Single.
2. Press and hold (**.) again for 2 seconds. The Alarm settings will blink.
3. Select the hour and minute. Press **UP** or **DOWN** to change settings. Press (**.) to confirm.

**ACTIVATE ALARM**
Press ▲ or ▼ to activate or deactivate the Alarm. --- indicates that the alarm is deactivated.

**STOP ALARM**
To stop the alarm from ringing, press (**.).
TEMPERATURE

This product can display current, maximum, and minimum temperature readings collected by the main unit (indoor) and remote sensor (outdoor).

Outdoor temperature data collected by the remote sensor is updated every 78 seconds.

SELECT TEMPERATURE UNIT

Press the °C / °F button to switch between temperature units. The button is located in the battery compartment.

MINIMUM / MAXIMUM RECORDS

Press MEM to toggle between current, maximum (MAX) and minimum (MIN) records.

To clear the records, press and hold MEM for 2 seconds. The current temperature readings will be shown as the minimum and maximum records.

RESET SYSTEM

The RESET button is located in the battery compartments for the main unit. Press RESET when you change the batteries and whenever performance is not behaving as expected (for example, unable to establish radio frequency link with remote sensor or radio-controlled clock).

NOTE When you press RESET, all settings will return to default value, and you will lose all stored information.

SAFETY AND CARE

Clean the product with a slightly damp cloth and alcohol-free mild detergent. Avoid dropping the product or placing it in a high-traffic location.
WARNINGS

This product is designed to give you years of service if handled properly. Observe the following guidelines:

• Never immerse the product in water. This can cause electrical shock and damage the product.
• Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
• Do not tamper with the internal components.
• Do not mix new and old batteries or batteries of different types.
• Do not use rechargeable batteries with this product.
• Remove the batteries if storing this product for a long period of time.
• Do not scratch the LCD display.

Do not make any changes or modifications to this product. Unauthorized changes may void your right to use the product. The technical specification of this product and contents of this user guide are subject to change without notice. Images not drawn to scale.

TROUBLESHOOTING

Check here before contacting our customer service department.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar</td>
<td>Strange date / month</td>
<td>Change language (→ 9)</td>
</tr>
<tr>
<td>Clock</td>
<td>Cannot adjust clock</td>
<td>Disable Atomic Clock (→ 9)</td>
</tr>
<tr>
<td></td>
<td>Cannot auto-synch</td>
<td>1. Adjust batteries. (→ 6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Press <strong>RESET</strong> (→ 10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Manually activate Atomic Clock feature (→ 9)</td>
</tr>
<tr>
<td>Temp</td>
<td>Shows &quot;LLL&quot; or &quot;HHH&quot;</td>
<td>Temperature is out-of-range</td>
</tr>
<tr>
<td>Remote sensor</td>
<td>Cannot locate remote sensor</td>
<td>Check batteries (→ 6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check location (→ 7)</td>
</tr>
<tr>
<td></td>
<td>Data does not match main unit</td>
<td>Initiate a manual sensor search (→ 8)</td>
</tr>
</tbody>
</table>
## SPECIFICATIONS

### MAIN UNIT DIMENSIONS
<table>
<thead>
<tr>
<th>L x W x H</th>
<th>100 x 47 x 99 mm (3.94 x 1.85 x 3.90 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>4.80 ounces with battery</td>
</tr>
</tbody>
</table>

### REMOTE SENSOR DIMENSIONS
<table>
<thead>
<tr>
<th>L x W x H</th>
<th>96 x 50 x 28 mm (3.8 x 2.0 x 1.1 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1.62 ounce without battery</td>
</tr>
</tbody>
</table>

### TEMPERATURE
<table>
<thead>
<tr>
<th>Unit</th>
<th>°C or °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Range</td>
<td>-5 °C to 50 °C (23 ºF to 122 ºF)</td>
</tr>
<tr>
<td>Outdoor Range</td>
<td>-20 °C to 60 °C (-4 ºF to 140 ºF)</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 °C (0.2 ºF)</td>
</tr>
<tr>
<td>Memory</td>
<td>Min / Max</td>
</tr>
</tbody>
</table>

### REMOTE SENSOR
- **RF frequency**: 433 MHz
- **Range**: 30 meters (98 feet) with no obstructions
- **Transmission**: every 78 seconds

### CLOCK
- **Atomic Clock**: Auto or manual (disabled)
- **Clock display**: HH:MM:SS
- **Hour format**: 12hr AM/PM or 24hr
- **Hour offset**: +/- 9 hours
- **Calendar**: MM/DD; weekday in 5 languages (D, E, F, I, S)
- **Alarm**: Weekday and Single; 2-minute crescendo

### POWER
- **Main unit batteries**: 2 x UM-4 (AAA) 1.5V alkaline
- **Sensor batteries**: 2 x UM-3 (AA) 1.5V alkaline
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 information below 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 declare that the product

Product No.: RMR602A  
Product Name: Wireless Thermo Clock  
Manufacturer: IDT Technology Limited  
Address: Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue St., Hung Hom, Kowloon, Hong Kong

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.