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INTRODUCTION

Thank you for selecting the Oregon Scientific™ Wireless **Thermo Clock** (RAR186). 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:

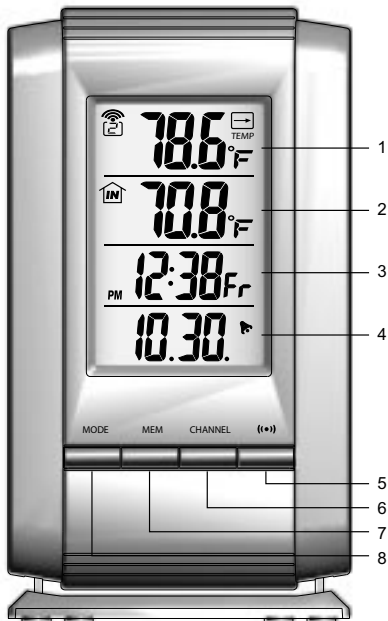
- Main unit
- Remote sensor (THN122)

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.

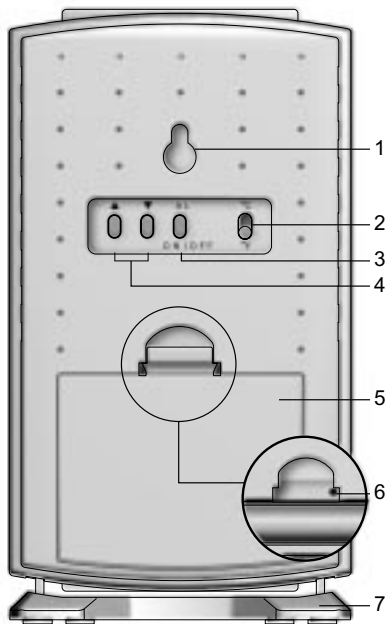
ABOUT OREGON SCIENTIFIC

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

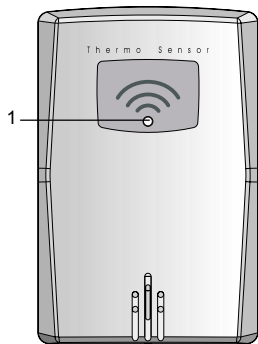
FRONT VIEW



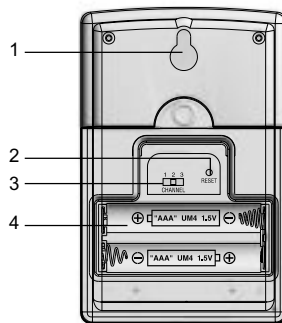
1. Sensor Temperature Area: Readings, trend line, sensor reception status and channel number
2. Indoor Temperature Area: Readings, and indoor symbol
3. Clock Area: Time display with seconds or days of the week
4. Calendar / Alarm Area: Date display and dual alarm display
5. MODE: Press to change display / settings
6. MEM: Press to view current or saved max / min temperature
7. CHANNEL: Press to switch remote sensor
8. ((.)): Press to view dual alarm settings



1. Wall mount
2. °C / °F Switch
3. Alarm (On / Off)
4. Press (up button) to increase or (down button) to decrease settings
5. Battery compartment
6. Catch to open battery compartment
7. Table stand



1. LED Status indicator



1. Wall mount hole
2. RESET
3. Channel number (1 - 3)
4. Battery compartment
(Battery compartment cover not shown)

GETTING STARTED

BATTERIES

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

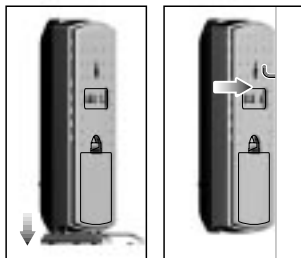
 shows on LCD display when batteries are low.

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

Product can stand on detachable base or be mounted on a wall with a nail.



REMOTE SENSOR (THN122)

This product is shipped with a THN122 **Thermo Sensor** that collects Temperature data. Data can be collected from up to 3 sensors. Additional sensors sold separately.

SETUP SENSOR

Open the remote sensor battery compartment with a small Phillips screwdriver.

1. Insert the batteries, matching the polarity as shown in the battery compartment.
2. Set the channel. The switch is located in the battery compartment.

SWITCH	OPTION
Channel	Channel 1 - 3. If you are using more than one sensor, select a different channel for each sensor.

3. Place the sensor near the main unit. Press RESET on the sensor 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 and select the channel and temperature unit 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.

DATA TRANSMISSION

Data is sent from the sensor(s) every 30 seconds. The reception icon shown in the Temperature Area shows the status.

ICON	DESCRIPTION
	Main unit is searching for sensors.
	At least 1 channel has been found.
	Channel 1 is selected (number will change depending on the sensor you select)
--- shows in Temp Areas	The selected sensor cannot be found. Search for the sensor or check batteries.

SEARCH FOR SENSOR

To search for a sensor, press and hold **MEM** and **CHANNEL** for 2 seconds.

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.

CLOCK

This product shows the current time, time zone, and day of week in English, German, Italian, or French.

Manually set the clock following the "Set Clock" instructions (below).

SET CLOCK

1. Press and hold MODE for 2 seconds. The Clock Area will blink.
2. Select the hour, minute, date, month, language, day and time zone offset (-12 to +12). Press UP or DOWN to change the setting. Press MODE to confirm.

NOTE The Language settings are (E) English, (D) German, (F) French, and (I) Italian

SWITCH CLOCK & CALENDAR DISPLAY

Clock with Weekday, Clock with Weekday and **Zone Time**, and Clock with Weekday and **Zone Calendar**.

ALARM

This product is equipped with a 2-minute crescendo alarm.

VIEW ALARM SETTINGS

The Alarm Time and On / Off status will show in the Calendar / Alarm Area.

Press ((.)) again for the second alarm time and status.

SET DUAL ALARM

1. Press ((.)).
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.

NOTE To set second alarm perform step 1 twice, then perform steps 2 and 3.

ACTIVATE ALARM

Press **ALARM ON / OFF** to activate, deactivate and toggle between alarm settings. (Alarm symbol with #1 or #2) shows in Calendar / Alarm Area when alarm(s) are activated.

TEMPERATURE

This product can display the following temperature information:

- Current, minimum and maximum readings
- Trend line **for remote sensor**

Data is collected by the remote sensors and displayed every **30** seconds.




SELECT TEMPERATURE UNIT

Slide the °C / °F switch into the desired location. The switch is located on the back of the product.

SELECT SENSOR CHANNEL

Press **CHANNEL** to switch between sensors 1 - 3.

The icon shows the selected sensor.

Kineticwave Icon			
Designated Display	Remote Display Channel 1	Remote Display Channel 2	Remote Display Channel 3




MINIMUM / MAXIMUM RECORDS

Press MEM to toggle between current, maximum (MAX) and minimum (MIN) records for the indoor reading and the selected sensor. To clear both the indoor thermometer and selected sensor records, press and hold MEM for 2 seconds.

A beep will sound to confirm that the memory has been cleared.

TEMPERATURE TREND

The trend line is shown next to the Temperature reading.

Trend	Rising	Steady	Falling
ICON			

RESET SYSTEM

The RESET buttons are located in the battery compartments for the main unit and sensors. 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).

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.

Problem	Symptom	Remedy
Calendar	Strange date / month	Change language (→ 9)
Clock	Cannot adjust clock	Set Clock (→ 9)
Temp	Shows "LLL" or "HHH"	Temperature is out-of-range
Remote sensor	Cannot locate remote sensor	Check batteries (→ 6)
		Check location (→ 6)
	Cannot change channel	Check sensors. Only one sensor is working(→ 7)

SPECIFICATIONS

MAIN UNIT DIMENSIONS

L x W x H	150 x 82 x 47 mm (5.9 x 3.2 x 1.9 inches)
Weight	7.90 ounces with battery

REMOTE SENSOR DIMENSIONS

L x W x H	92 x 60 x 20 mm (3.6 x 2.4 x .79 inches)
Weight	2.22 ounces without battery

TEMPERATURE

Unit	°C or °F
Indoor Range	-5 °C to 50 °C (23 °F to 122 °F)
Outdoor Range	-20 °C to 60 °C (-4 °F to 140 °F)
Resolution	0.1 °C (0.2° F)
Memory	Min / Max

REMOTE SENSOR (THN122)

RF frequency	433 MHz
Range	30 meters (98 feet) with no obstructions
Transmission	every 30 seconds
Channel No.	1 - 3
Unit	°C or °F

CLOCK

Clock display	HH:MM:SS
Hour format	12hr AM/PM

Time zone offset	-12 to +12 hours
Calendar	DD/MM; weekday in 4 languages (E, F, D, I)
Alarm	2-minute crescendo

POWER

Main unit batteries	2 x UM-3 (AA) 1.5V alkaline
Sensor batteries	2 x UM-4 (AAA) 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

Name: Oregon Scientific, Inc.
Address: 19861 SW 95th Place,
Tualatin, Oregon 97062 USA
Telephone No.: 1-800-853-8883
Fax No.: 1-503-684-8883

declare that the product

Product No.: RAR186
Product Name: Remote 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.



Wireless Thermo Clock

Model : RAR186

User Manual

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