Thank you for selecting this Oregon Scientific™ Wireless Indoor / Outdoor Thermometer with Indoor Humidity and Self-Setting Atomic Clock (RMR383HGA). This clock is supplied with a remote sensor (THN132N) and can support up to 3 sensors in total (additional sensors sold separately).

NOTE: Please 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.

INTRODUCTION

Getting Started

Remote Sensor

Clock/Alarm Area

Temperature and Humidity Area

Remote Sensor Data Transmission

Clock Reception

Reception Signal

For best results:
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 30 m (100 ft) 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 weather months as below-freezing temperatures may affect battery performance and signal transmission.

The transmission range may vary depending on many factors. You may need to experiment with various locations to get the best results.

Standard Alkaline batteries contain significant amounts of water. Because of this they will freeze in low temperatures of approximately -12°C (10°F). Disposable Lithium batteries have a much lower threshold for temperature with an estimated freezing range of below -30°C (-22°F).

Wireless ranges can be impacted by a variety of factors such as extremely cold temperatures. Extreme cold may temporarily reduce the effective range between the sensor and the base station. If the unit's performance falls due to low temperature, the unit will resume proper functioning as the temperature rises to within the normal temperature range (i.e. no permanent damage will occur to the unit due to low temperatures).

Sensor Data Transmission

The sensor reception icon in the temperature and humidity area shows the status.

For best results:
- Place the sensor close to the main unit during cold weather months as below-freezing temperatures may affect battery performance and signal transmission.

Clock Reception

This product is designed to synchronize its date and time automatically once it is within range of the WWVB-60 signal from the atomic clock in Fort Collins, Colorado. The clock collects the radio signals whenever it is within 3219 km (2000 miles) of a signal.

Note: Initial reception takes 2-10 minutes for first set up or if the sensor is still not found, check the batteries, obstructions, and remote unit location.

Remote Sensor

The sensor detects temperature readings every 40 seconds and sends them to the main unit. The main unit can collect data from up to 3 sensors.

Remote Sensor Data Transmission

Clock signal reception indicator: Strong Signal: Main unit is searching for the sensor(s) and “- - - -” and “- - - -” icons are displayed. Sensor cannot be found. Search for the sensor or check batteries.

To search for a sensor:
Simultaneously, 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.

Clock

Note: Initial reception takes 2-10 minutes for first set up or when RESET is pressed. Once complete, the reception icon will stop blinking. If the signal is weak, it can take up to 24 hours to get a valid signal.

Reception Signal

Clock signal reception indicator: Strong Signal: Main unit is searching for the sensor(s) and “- - - -” and “- - - -” icons are displayed. Sensor cannot be found. Search for the sensor or check batteries.

To enable and force a signal search:
Press and hold for 2 seconds.

To disable the signal reception:
Press and hold for 2 seconds.

Set Clock

If the clock signal reception is enabled and a signal is being received the clock does not need to be manually set.

To manually set the clock:
1. Press and hold MODE for 2 seconds.
2. Press and change the settings.
3. Press MODE to confirm.
4. The setting sequence is: 12/24 hour format, hour, minute, year, date / month format, month, date, and display.
NOTE: The language options are English (E), German (D), French (F), Italian (I), and Spanish (S).

To switch the clock display:
Press MODE to toggle between:
• Clock with day
• Clock with seconds

ALARM
To set the alarm:
1. Press and hold ALARM for 2 seconds.
2. Press A or B to set alarm time.
3. Press MODE/SNOOZE to confirm. A indicates alarm is On.

To enable / disable the alarm:
1. Press ALARM to display alarm time.
2. Press ALARM again to turn alarm ON / OFF.

To silence the alarm:
• Press SNOOZE to silence it for 8 minutes.
• Press any key except SNOOZE to turn the alarm off and activate it again after 24 hours.

TEMPERATURE AND HUMIDITY
To toggle temperature unit:
Press °C / °F.
To view outdoor sensors temperature readings:
Press CHANNEL.
To auto-scan between sensors:
Press and hold CHANNEL for 2 seconds. Each sensor’s data is displayed for 4 seconds.
To end auto-scan:
Press CHANNEL or MEM.
To toggle between current, minimum and maximum records for the selected sensor:
Press MEM repeatedly.
To clear the records:
Press and hold MEM for 2 seconds.

TEMPERATURE AND HUMIDITY TRENDS
The temperature and humidity trend icons are based on recent readings.

RISING STEADY FALLING

NOTE:
If the channel 1 sensor falls between 3°C to –2°C (37°F to 28°F), it flashes to warn you that the temperature is approaching freezing.

NOTE:
The warning will automatically stop if the temperature goes outside the six-warning range.

NOTE:
The technical specifications for this product and the contents of this manual are subject to change without notice.

An alarm can be set to sound if sensor set to channel 1 records above or below a temperature / humidity of your choice.

To set alarm ON/OFF:
1. Press and hold TEMP / HUMIDITY HI / LO.
2. Use A or B to select high / low temperature / humidity alarm. Press TEMP / HUMIDITY HI / LO to confirm.
3. Press A or B to set alarm ON / OFF and press TEMP / HUMIDITY HI / LO to confirm.
4. If alarm has been activated, use A or B to select the temperature / humidity.
5. Press TEMP / HUMIDITY HI / LO to confirm.

To silence the alarm:
Press any key. The alarm resets automatically and will go off again after 24 hours.

NOTE:
The TH1532N sensor supplied does not support humidity readings. To enable Hi / Lo Humidity alarm a thermo-hygro sensor must be purchased to enable heat index display for channels 1-3.

HEAT INDEX
This heat index combines temperature and humidity data to describe the actual temperature felt. The TH1532N sensor supplied does not support heat index display. A thermo-hygro sensor must be purchased to enable heat index display for channels 1-3.

WARNING
• Extreme danger
• Danger
• Extreme caution
• Caution

HEAT INDEX
External danger 54.5°C (130°F) or above
Danger 40.5 - 54°C (105 - 129°F)
Extremecautions 32.5 - 40°C (90 - 104°F)
Caution 26.5 - 32°C (80 - 90°F)

MEANING
• Sitting risk of dehydration / sun stroke
• Heat exhaustion likely
• Possibility of heat dehydration

• To display the heat index, press heat INDEX.
• To toggle between current / maximum / minimum readings, press Heat INDEX again then press CHANNEL to select channel 1-3 or indoor, followed by MEM.
• To toggle between temperature / humidity and heat index display, press and hold Heat INDEX for 2 seconds. Press Heat INDEX again to stop this feature.

NOTE:
The heat index is below 80°F / 26°C, if the selected sensor does not support humidity measurement or if the channel is not working, the heat index will display NA.

COMFORT ZONE
The comfort zone assesses the climate based on current temperature and humidity measurements.

<table>
<thead>
<tr>
<th>ICON</th>
<th>TEMPERATURE</th>
<th>HUMIDITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>set</td>
<td>Any</td>
<td>&gt; 70%</td>
</tr>
<tr>
<td>low</td>
<td>20 - 29°C (68 - 77°F)</td>
<td>40 - 70%</td>
</tr>
<tr>
<td>hgh</td>
<td>Any</td>
<td>&lt; 40%</td>
</tr>
</tbody>
</table>

MOON PHASE
• When calendar is set press A or B to view the moon phase for the next / previous day.
• Press and hold A or B to scan through the years (2001 to 2099).

- New Moon
- Waxing Crescent
- First quarter
- Waxing Gibbous
- Full Moon
- Waxing Gibbous
- Last quarter
- Waxing Crescent

NOTE:
• 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.

RESET
Press RESET to return to the default settings.

PRECAUTIONS
The product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:
• Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
• Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
• Do not clean the unit with abrasive or corrosive materials.
• Do not tamper with the unit’s internal components. Doing so will invalidate the warranty on the unit and may cause damage.
• Do not use fresh batteries as specified in the user’s instructions. Do not mix new and old batteries.
• Due to printing limitations, 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.
• Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

NOTE:
The technical specifications for this product and the contents of the user manual are subject to change without notice.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN UNIT</td>
<td>L x W x H</td>
</tr>
<tr>
<td></td>
<td>110 x 69 x 140 mm (4.3 x 2.7 x 5.5 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>195 g (6.84 oz)</td>
</tr>
<tr>
<td>Resolution unit</td>
<td>26°F / 1°C</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-5°C to 50°C (23°F to 122°F)</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1°C (0.2°F)</td>
</tr>
<tr>
<td>Clock frequency</td>
<td>32768 Hz</td>
</tr>
<tr>
<td>Synchronization</td>
<td>Auto or disabled</td>
</tr>
<tr>
<td>Signal frequency</td>
<td>433 MHz</td>
</tr>
<tr>
<td>Clock</td>
<td>Auto or manual (disabled)</td>
</tr>
<tr>
<td>Humidity range</td>
<td>25% - 95%</td>
</tr>
<tr>
<td>Humidity resolution</td>
<td>1%</td>
</tr>
</tbody>
</table>

MEM
Min / Max relative humidity and temperature
Alarm duration 2 minutes
Snooze 8 minutes
Clock display HH/MM/SS
Hour format 12 / 24 hour format
Calendar MM / DD or DD / MM language selection: E, D, F, I, S
Power 2 x UM3 (AAA) 1.5 V batteries

REMOTE UNIT
L x W x H 96 x 65 x 22 mm (3.8 x 2.6 x 0.9 in)
Weight 62 g (2.22 oz) without battery
Transmission range 30 ft (100 cm) unobstructed
Temperature range 30°C to 60°C (86°F to 140°F)
Power 1 x UM3 (AAA) 1.5 V battery

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

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’re in the US and would like to contact the Oregon Scientific Customer Care department directly, please visit www.oregonscientific.com/service/default.asp or Call 1-800-853-8883.

For international inquiries, please visit www.oregonscientific.com/aboutinternational.asp

FCC STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: 1) This device does not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING
Changes or modifications 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 following information 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, Ltd.
Address: 5561 SW 55th Ave., Tualatin, Oregon 97062 USA
Telephone No.: 1-800-853-8883

OR

declare that the product:
Product No.: RMR838HG
Product Name: Wireless Indoor / Outdoor Thermometer with Indoor Humidity and Self-Setting Atomic 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.

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