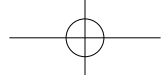# Oregon
S C I E N T I F I C

## Weather@Home
## Thermo Plus Bluetooth-enabled
## Thermo-Hygro Monitor

### USER MANUAL

RAR213HGX

**Weather@Home Thermo Plus**
**Bluetooth-enabled Thermo-Hygro Monitor**
**Model: RAR213HGX**

USER MANUAL

## CONTENTS

## INTRODUCTION

Thank you for selecting our Oregon Scientific™ Weather@Home Thermo Plus Bluetooth-enabled Thermo-Hygro Monitor, which has changeable display on indoor and outdoor temperatures and humidity.

**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.

## OVERVIEW

### FRONT VIEW

1. Outdoor channel selected
2. ⤳ : remote sensor reception indicator
3. ⚊ : outdoor remote sensor battery low
4. Outdoor humidity reading (current / **MAX** / **MIN**)
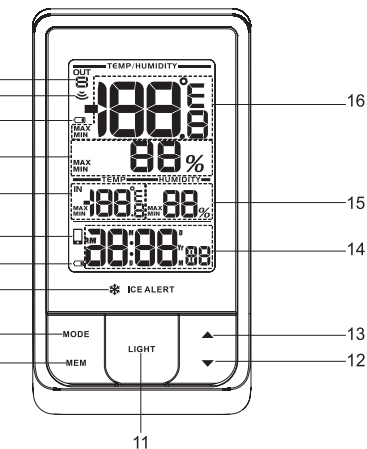5. Indoor temperature reading (current / **MAX** / **MIN**)
6. ⬛ : BLE connection indicator
7. ⚊ : main unit battery low
8. Ice alert LED indicator
9. **MODE**: change settings / display; search remote sensor
10. **MEM:** view current, maximum and minimum temperature / humidity
11. **LIGHT**: activate backlight for 5 seconds



12. ▼: decrease value of the settings; select outdoor channels; deactivate pairing mode
13. ▲: increase value of the settings; select outdoor channels; activate pairing mode
14. **AM**/**PM** : morning/afternoon

    **MD**/**DM**/**Yr**: calendar / clock with weekday (hour : minute with second display)
15. Indoor humidity reading (current / **MAX** / **MIN**)
16. Outdoor temperature reading (current / **MAX** / **MIN**)

3
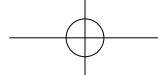
EN

## REAR VIEW
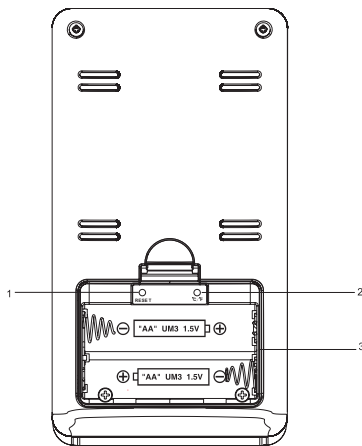
1. **RESET**: reset the unit to default settings
2. **°C / °F**: select temperature unit
3. Battery compartment

## REMOTE SENSOR (THGN132N)
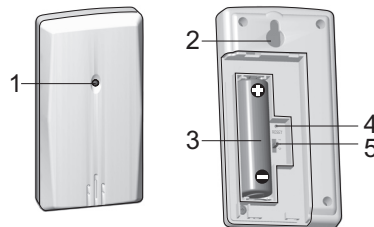
1. LED status indicator
2. Wall mount hole
3. Battery compartment
4. **RESET** hole
5. **CHANNEL** switch

**USEFUL REFERENCE** Visit our website www.oregonscientific.com to learn more about the compatible sensors.

## INSERT BATTERIES

1. Remove the battery compartment.
2. Insert the batteries, matching the polarities (**+/-**).
3. Press **RESET** after each battery change.

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RAR213HGX-Manual-EN-R8.indd   4                                                                                    2018/6/12   下午2:59

| 🔋 LOCATION | MEANING |
|---|---|
| Clock area | Main unit batteries low |
| Outdoor temperature area | Sensor batteries low |

## REMOTE SENSOR

The main unit can collect data from up to 5 sensors.

**To set up the sensor:**

1. Open the battery compartment.
2. Select a channel then press **RESET**.
3. Close the battery door.
4. Place the sensor within 98 ft (30 m) of the main unit using the table stand or wall mount.

**TIP** Ideal placements for the sensor would be in any location on the exterior of the home at a height of not more than 5 ft (1.5 m) and which can shield it from direct sunlight or wet conditions for an accurate reading.



1.5 m (5 ft)

**NOTE** Use alkaline batteries for longer usage and consumer grade lithium batteries in temperatures below freezing.

## SENSOR DATA TRANSMISSION
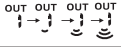
**To search for a sensor:**

• Press and hold ▲ and **MODE** at the same time for 2 seconds.

**To auto-scan among sensors:**

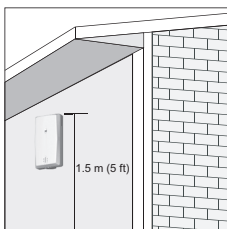The main unit can search for the sensor(s) automatically. The temperatures will be displayed automatically in sequential order.

**The sensor reception icon in the remote sensor area shows the status:**

| ICON | DESCRIPTION |
|---|---|
| OUT → OUT | Main unit is searching for sensor(s). |
| OUT → OUT → OUT → OUT | A channel has been found. |
| OUT | The sensor cannot be found. |

**TIP** The transmission range may vary depending on many factors. You may need to place the sensor(s) in different locations to get the best result(s).

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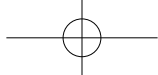
## CLOCK

### MANUALLY SET CLOCK

1. Press and hold **MODE** for 2 seconds to enter the setting mode.

2. The settings order is: 12/24 hour format, hour, minute, year, calendar format (day-month / month-day), month, day and language.

3. Press ▲ or ▼ to change the settings.

4. Press **MODE** to confirm.

The language options are English (**E**), German (**D**), French (**F**), Italian (**I**), and Spanish (**S**).

**To select display mode:**
Toggle **MODE** to choose among clock with seconds / clock with weekday / calendar.

### TEMPERATURE AND HUMIDITY

**To select temperature unit:**

1. Open the battery compartment.

2. Select **°C** or **°F** for temperature readings by a pin or the top of a pen.

3. Close the battery door.

**To select an outdoor sensor's reading:**

• Toggle ▲ or ▼ to select your desired sensor channel.

**To auto-scan among sensors:**

1. Press and hold ▼ and **MEM** at a time for 2 seconds to enable auto-scan function for all 5 channels. The temperature will be displayed automatically in sequential order for 3 seconds each.

2. To end, press ▲ or ▼ .

**To display current, minimum and maximum records of the day from a selected sensor:**

• Toggle **MEM**.

**To clear the records:**

• Press and hold **MEM** for 2 seconds.

NOTE  The record will also be cleared once the batteries are removed from the main unit.

### ICE WARNING

If the channel 1 sensor falls from 37°F to 28°F (3°C to -2°C), LED indicator ❄ ICE ALERT will flash, and will stop flashing once the temperature is out of this range.

• To disable the ice alert warning, press ▲ and ▼ at the same time.

• The ice warning detection will restart once the temperature falls out of 37°F to 28°F (3°C to -2°C), and will then trigger the flash again when the temperature falls into this range.

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**NOTE** As ice alert is only applicable to channel 1, to prevent flashing of LED, select other channels on outdoor sensor.

## BACKLIGHT

Press **LIGHT** to activate backlight for 5 seconds.

## RESET

- Open the battery compartment.
- Press **RESET** to return to the default settings by a pin or the top of a pen.
- Close the battery door.

## CONNECT WITH YOUR MOBILE DEVICE

You can remotely set the weather station and read the weather information through Bluetooth®v4.0 using your mobile device with the downloaded application from the Apple Store. To quickly find the application, type 'Weather@Home' as keyword in the search engine. Ensure your mobile device is compatible with iOS 5 or Android 4.3 with Bluetooth®v4.0
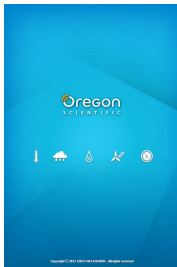


## PAIRING YOUR WEATHER STATION

First of all, you need to pair your weather station with your mobile device. 📱 will flash on the screen of the weather station while pairing and be on after successful pairing.
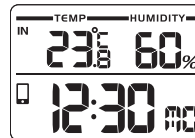


- Press and hold ▲ for 2 seconds to enable a pair-up for the main unit for 30 seconds.
- Press and hold ▼ for 2 seconds to disable a pair-up mode.



1. Tap 🔧 to enter **SETTINGS** screen.
2. Tap on **STATION** area.
3. Tap **Pair Up. Searching…** displays. If you want to cancel the pairing, tap **Cancel**.
4. Once the pairing is successful, it will return to **STATION** screen.
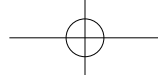
5. Tap on each channel to rename it. (Up to 20 characters including space are allowed). Tap Done if completed. Tap ⟨ to exit.

**To remove sensor:**
To remove any sensor from the weather station, Tap **Remove station** on **STATION** screen, all the sensors will be removed at the same time.

**To reposition the sensors on screen:**

1. On **STATION** screen, tap ⬛.

2. Press and hold ☰ at the right side of a sensor. Drag it to your desired position.

3. Tap ⬛ to confirm.

## SETTINGS

You can set your weather station through the application, such as measurement units.

**The settings are as follows:**

• Temperature
• Barometric (with optional BTH sensor)
• Rainfall (not available in RAR213HGX)
• Wind speed (not available in RAR213HGX)
• Altitude (not available in RAR213HGX)
• Show unavailable sensor
• Automatically sync time
• Show sea level pressure (not available in RAR213HGX)
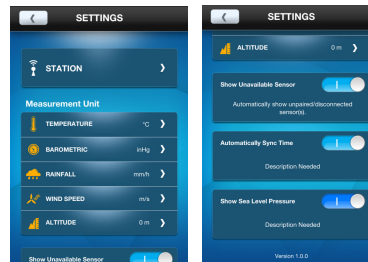
**To select the measurement unit:**

1. Tap ⟩ to view the measurement unit options.

2. Tap on your desired unit.

3. Tap ⟨ to go back to the previous screen.

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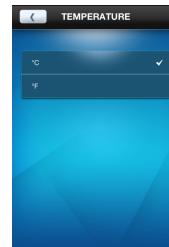
## VIEW CURRENT READINGS

You can directly view all the weather readings from different sensors through the application at a time. The readings are in **HOME** screen.

**NOTE** If low battery icon ▢ displays on the screen, please replace the batteries for the corresponding device.
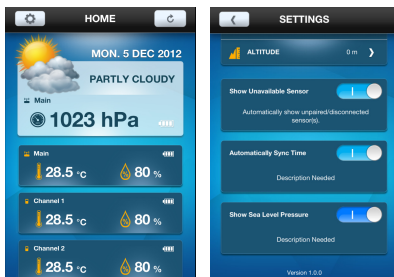


**To show unavailable sensor:**
If the sensor is out of range, the readings are interrupted and **--** (dash mode) displays on the screen. If you do not want to show the unavailable sensor:

• On **SETTINGS** screen, touch and slide the button to right to turn on the function, or sliding to left to turn it off.

**To automatically synchronize time:**
Time and date on your weather station could be automatically synchronized by your mobile device.

• On **SETTINGS** screen, touch and slide the button to right to turn on the function, or sliding to left to turn it off.

## VIEW HISTORY READINGS

You can view history through the application. The history could also be presented in graphs (past 24 hours or past 7 days).

**To view the history:**

1. Tap on your desired sensor area on the screen.

2. Tap ▢ ▢ ▢ to select your desired data or tap ▢ to sort the data by date.



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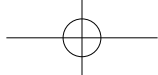
## OPTIONAL SENSOR FOR ADDITIONAL INFORMATION

By applying the optional sensor (Model: BTH Sensor) at a time, you can also view the following information using your mobile device.

• Weather Forecast

• Air Pressure

**USEFUL REFERENCE** The optional sensor (Model: BTH Sensor) can be purchased from Oregon Scientific.

## PRECAUTIONS

• Do not subject the unit to excessive force, shock, dust, temperature or humidity.

• Do not cover the ventilation holes with any items such as newspapers, curtains etc.

• 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. This invalidates the warranty.

• Only use fresh batteries. Do not mix new and old batteries.

• Images shown in this manual may differ from the actual display.

• When disposing of this product, ensure it is collected separately for special treatment and not as household waste.

• Placement of this product on certain types of wood may result in damage to its finish for which Oregon Scientific will not be responsible. Consult the furniture manufacturer's care instructions for information.

• The contents of this manual may not be reproduced without the permission of the manufacturer.

• Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

• Please note that some units are equipped with a battery safety strip. Remove the strip from the battery compartment before first use.

**NOTE** The technical specifications for this product and the contents of the user manual are subject to change without notice. To download an electronic version of the user manual, please visit
http://global.oregonscientific.com/customerSupport.php.

**NOTE** Features and accessories will not be available in all countries. For more information, please contact your local retailer.

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## SPECIFICATIONS

| TYPE | DESCRIPTION |
|---|---|
| **MAIN UNIT** | |
| L x W x H | 135.6 x 73 x 51.2 mm<br>5.34 x 2.87 x 2.02 in |
| Weight | 183g (6.46 ounces) include battery |
| Temperature range | -5°C to 50°C (23°F to 122°F) |
| Humidity range | 25% - 95% |
| Power | 2 x UM-3 (AA) 1.5V batteries |
| Temperature range for ice alert | 3°C to -2°C |
| **REMOTE UNIT (THGN132N)** | |
| L x W x H | 50 x 22 x 96 mm<br>(1.97 x 0.87 x 3.78 in) |
| Weight | 62g (2.22 ounces) without battery |
| Transmission range | 98 ft (30 m) unobstructed |
| Signal frequency | 433 MHZ |
| Temperature range | -20°C to 60°C (-4°F to 140°F) |
| Humidity range | 25% - 95% |
| Power | 1 x UM-3 (AA) 1.5 V battery |

## ABOUT OREGON SCIENTIFIC

Visit our website www.oregonscientific.com to learn more about Oregon Scientific products.

For any inquiry, please contact our Customer Services at info@oregonscientific.com.

Oregon Scientific Global Distribution Limited reserves the right to interpret and construe any contents, terms and provisions in this user manual and to amend it, at its sole discretion, at any time without prior notice. To the extent that there is any inconsistency between the English version and any other language versions, the English version shall prevail.

## EU-DECLARATION OF CONFORMITY

Hereby the manufacturer, Oregon Scientific Global Distribution Limited, declares that the radio equipment type Weather@Home Thermo Plus Bluetooth-enabled Thermo-Hygro Monitor (Model: RAR213HGX) is in compliance with 2014/53/EU Directive. The full text of the EU Declaration of Conformity is available at the following internet address:

http://global.oregonscientific.com/customerSupport.php

CE

**COUNTRIES RED APPROVED COMPLIED**
All EU countries, Switzerland CH
and Norway N
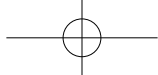
## DISPOSAL INFORMATION FOR USERS

**Pursuant to and in accordance with Article 14 of the Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE), and pursuant to and in accordance with Article 20 of the Directive 2013/56/EU of the European Parliament on batteries and accumulators and waste batteries.**

The barred symbol of the rubbish bin shown on the equipment indicates that, at the end of its useful life, the product must be collected separately from other waste.

Please note that the batteries/rechargeable batteries must be removed from the equipment before it is given as waste. To remove the batteries/accumulators refer to the specifications in the user manual. Therefore, any products that have reached the end of their useful life must be given to waste disposal centers specializing in separate collection of waste electrical and electronic equipment, or given back to the dealer when purchasing a new WEEE, pursuant to and in accordance with Article 14 as implemented in the country.

The adequate separate collection for the subsequent start-up of the equipment sent to be recycled, treated and disposal of in an environmentally compatible way contributes to preventing possible negative effects on the environment and health and optimizes the recycling and reuse of components making up the apparatus.

Abusive disposal of the product by the user involves application of the administrative sanctions according to the laws in force.

## 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

**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
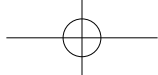
interference by one or more of the following measures:

• 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 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 Inc. |
| Address: | Brea Corporate Park |
| | 3020 Saturn St. Suite 200 |
| | Brea, CA 92821 |
| Telephone No.: | 1 (888) 950-8889 |

**declare that the product**

| | |
|---|---|
| Product No.: | RAR213HGX |
| Product Name: | Weather@Home Thermo |
| | Plus Bluetooth-enabled |
| | Thermo-Hygro |
| Manufacturer: | Oregon Scientific |
| | Global Distribution 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.