Multi-zone weather station

Model: RAR501 / RAA501H

USER MANUAL
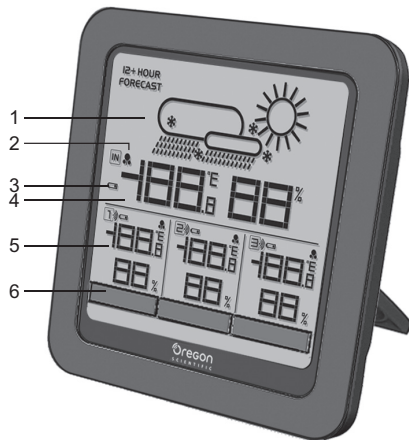
INDEX

OVERVIEW

FRONT VIEW

1. Weather forecast

2. ●|●: mold alert

3. Main unit batteries low

4. Temperature and humidity for location where main unit is placed

5. Temperature and humidity for location where sensor is placed
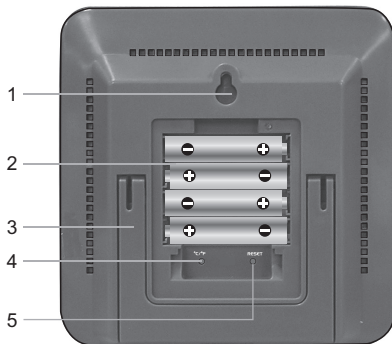
6. Customisable name tags

RAR501_IM_EN_R4.indd   2   12-6-15   下午2:31
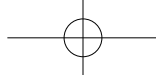
BACK VIEW

1. Wall mount hole
2. Battery compartment
3. Collapsible table stand
4. **°C / °F**: select temperature unit
5. **RESET**: reset unit to default settings

SENSOR

This product can work with up to 3 sensors at any one time to capture temperature and relative humidity readings in various locations around the home.

A complete set of 3 sensors are provided in this package, while replacement wireless remote sensors can be purchased separately.

THGR122N

This sensor conveniently displays the temperature / humidity which makes it especially suited for locations where you would like to see this data at a glance without having to refer each time to the main unit, such as children's room.
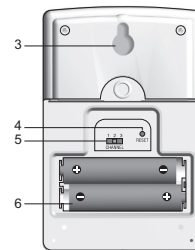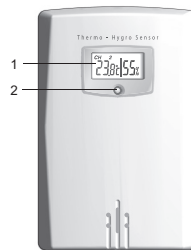
1. LCD display
2. LED status indicator
3. Wall mount hole
4. **RESET**
5. **CHANNEL** switch
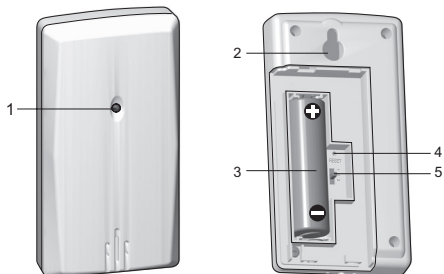6. Battery compartment

THGN132N

1. LED status indicator
2. Wall mount hole
3. Battery compartment
4. **RESET** hole
5. **CHANNEL** switch

ACCESSORIES – SEPARATE PURCHASE REQUIRED

Optional wireless remote sensors such as those listed below can be purchased separately. For more information, please contact your local retailer.*

-THGR122N / THGN122N

- THGN132N

Features and accessories will not be available in all countries.

## GETTING STARTED

REMOTE SENSOR INSTALLATION

1. Step applicable only to THGR122N:

   Using a Philips screwdriver, open the battery compartment cover.
2. Slide channel switch to select channel 1. Ensure you use a different channel for the other sensors (2, 3).
3. Insert the batteries, matching the polarities.
4. Press **RESET** after each battery change.
5. Replace the battery compartment cover.
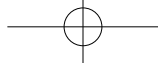
MAIN UNIT INSTALLATION

1. Remove the battery compartment.
2. Insert the batteries, matching the polarities.
3. Press **RESET** after each battery change.

The battery icon 🔋 may appear in the following areas:

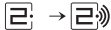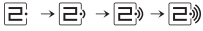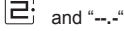| AREA	MEANING
Main unit environment area	Main unit batteries low
Remote sensor environment area	Remote sensor batteries low

NOTE

- We recommend that you use alkaline batteries with this product for longer usage and lithium batteries in temperatures below freezing.
- Batteries should not be exposed to excessive heat such as sunshine or fire.

SYNCHRONISING AND PLACING SENSORS

The main unit will automatically search for new sensor reset within the last 30 minutes. If unit failed to synchronise with remote sensor, reset both the main unit and sensor or try selecting a different channel (and press **RESET**).

The remote sensor reception icons will show the following status:

ICONS	MEANING
🔲 → 🔲⟩	Main unit is searching for sensor(s)
🔲 → 🔲 → 🔲⟩ → 🔲⟩	A sensor has been found and logged on
🔲 and "**--.-**"	No sensor found

Place the remote sensor within 30 m (98 ft) from the main unit.

TIP

- When placing sensors, remember the intended location for each sensor. Refer to channel switch position (1, 2, 3) and match with channel icon 🔲⟩ displayed directly above name tag.
- The transmission range may vary depending on many factors. You may need to experiment with various locations to get the best results.

For best results:

- Place the sensor out of direct sunlight and moisture.
- Position the sensor so that it faces the main unit, minimizing obstructions such as doors, walls and furniture.

5

- Place the sensor in a location with a clear view to the sky, away from metallic / electronic objects.

NAME TAGS
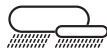
Name tags can be inserted in the main unit (see front view diagram).

There are 3 blank name tags provided in this package. You can write on the blank tags the name of the locations where the sensors are being installed.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather forecast within a 30-50 km (19-31 mile) radius.

Weather forecast area

ICON	DESCRIPTION
	Sunny
	Partly cloudy
	Cloudy
	Rainy
	Snowy

TEMPERATURE AND HUMIDITY

To toggle temperature unit:

- Using a thin blunt instrument, press **°C / °F** to toggle between °C / °F.

MOLD ALERT

This product features moisture alert function to inform users that there is a high risk of mold forming and should therefore take preventive measures.

The mold alert icon will flash when humidity is 60% or above and will stop flashing when the humidity falls below 60%.

TROUBLESHOOTING

DISPLAY	AREA	PROBLEM
LL.L	Temperature	Reading is below range
LL	Humidity	
HH.H	Temperature	Reading is above range
HH	Humidity	
--.- or --%	Temperature and Humidity	Sensor is not logged or does not have humidity function

6
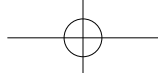
RESET

Using a thin blunt instrument, press **RESET** to return to default settings.

SPECIFICATIONS

MAIN UNIT

TYPE	DESCRIPTION
L x W x H	134 x 27 x 134 mm (5.3 x 1.1 x 5.3 in)
Weight	240 g (8.46 oz) without battery
Signal frequency	433 MHz (RAR501) / 315 MHz (RAA501H)
Temperature range	-5°C to 50°C (23°F to 122°F)
Humidity range	25% - 95%
Power	4 x UM-4 (AAA) 1.5 V batteries

REMOTE SENSOR (THGR122N)

TYPE	DESCRIPTION
L x W x H	92 x 60 x 20 mm (3.6 x 2.4 x 0.79 in)
Weight	60 g (2.11 oz) without battery
Signal frequency	433 MHz (RAR501) / 315 MHz (RAA501H)
Number of channels	3
Transmission range	30 m (100 ft) unobstructed
Temperature range	-20°C to 60°C (-4°F to 140°F)
Humidity range	25% - 95%
Power	2 x UM-4 (AAA) 1.5 V battery

REMOTE SENSOR (THGN132N)

TYPE	DESCRIPTION
L x W x H	96 x 50 x 22 mm (3.8 x 1.9 x 0.9 in)
Weight	50 g (1.76 oz) without battery
Signal frequency	433 MHz (RAR501) / 315 MHz (RAA501H)
Number of channels	3
Transmission range	30 m (100 ft) unobstructed
Temperature range	-20°C to 60°C (-4°F to 140°F)
Humidity range	25% - 95%
Power	1 x UM-3 (AA) 1.5V battery

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 normal 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.

- Should there be any discrepancy between the English and other language versions, the English version shall apply and prevail.

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

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

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

If you're in the US and would like to contact our Customer Care department directly, please visit: https://us.oregonscientific.com/service/support.asp

For international inquiries, please visit: https://us.oregonscientific.com/about/international.asp
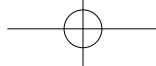
EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Multi-zone weather station (Model: RAR501 / RAA501H) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

COUNTRIES RTTE APPROVAL COMPLIED

All EU Countries, Switzerland **CH**

and Norway **N**

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 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:

9

• 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: 19861 SW 95th Ave.,Tualatin,
                    Oregon 97062 USA
Telephone No.:   1-800-853-8883

declare that the product
Product No.:   RAR501 / RAA501H
Product Name: Multi-zone weather station

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.