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ADDITIONAL RESOURCES

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

ABOUT THIS GUIDE

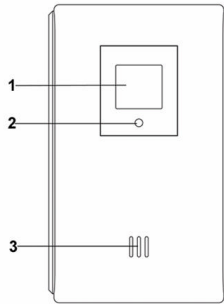
Congratulations on your selection of the **THGR328N**, Oregon Scientific Wireless Outdoor Temperature, and Humidity sensor. This can be used with new Oregon Scientific receiver units:

- BAR998HG
- BAR321HG
- AWS888
-

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.

PRODUCT OVERVIEW

FRONT VIEW



1. LCD display
2. LED status indicator
3. Ventilation duct

LCD

1. Channel no.
2. Low battery indicator
3. Temperature (°C or °F)
4. Relative humidity
5. Temperature / Humidity reading

BACK VIEW

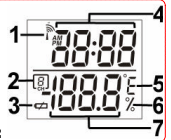
1. Wall mount (recess hole)
2. Channel switch
3. Reset
4. °C/°F° switch
5. Battery compartment
6. Fold-out stand

TABLE STAND

GETTING STARTED

This product can receive and transmit outdoor temperature and humidity then relay it back to the main (indoor) unit.

It can be used with up to 4 other remote thermo-hygro units to transmit data to the main unit. The measurement unit (°C or °F) and channel number (1, 2, 3, 4 or 5) switches are located in the battery compartment, and should be set prior to installation.



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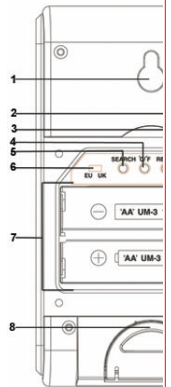
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NOTE The RTGR328N works as an RF clock receiver for the models listed above or not ... [1]

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NOTE Additional remote units that measure temperature and humidity are sold separately. If you are using more than one remote unit, be sure to select a different channel number for each unit.

SET UP

1. Place remote unit as close as possible to the main unit.
2. Remove the battery compartment lid by using a Philips screwdriver to loosen the screws
3. Assign a channel number. If you are using more than one remote unit, select a different channel number for each unit.
4. Set the measurement unit.
5. Set the radio signal format for the automatic clock set feature.
6. Insert the batteries. Match the polarity, as shown in the battery compartment.
7. Press RESET with the point of a blunt object (such as a ball point pen).
8. Replace the battery compartment lid. Secure.
9. Position the remote unit using either the recess hole on the back of the unit or the included stand. For best results:
 - Place the unit away from electrical or mechanical objects.
 - Place the unit out of direct sunlight and moisture.
 - Do not place the remote unit more than 100 meters (328 feet) from the main (indoor) unit.
 - Position the unit so that it faces the main (indoor) unit. Minimize obstructions such as doors, walls, and furniture.


You may need to experiment with various locations to get the best reception.

10. Once the batteries are in place, the sensor will transmit signals every 40 seconds. The readings shown on the main unit depend on which remote sensor (1, 2, 3, 4 or 5) is selected. Refer to the Main Unit user manual for more information.

CHANGE CHANNEL

Repeat the Set Up procedure. In Step 3, select a different channel number.

LOW BATTERY WARNING

The low battery indicator is shown on the main unit when the battery is low for the selected remote unit. Replace the batteries whenever the low battery signal  shows.

NOTE Do not use rechargeable batteries. Properly dispose used batteries by taking them to an authorized disposal station.

RESET SYSTEM

The **RESET** button is located in the battery compartment. Press it whenever you change the batteries, or whenever performance is not behaving as expected (e.g., unable to establish radio frequency link with main unit). Refer to the User Manual for the main unit for more information.

SAFETY AND CARE

Wash the unit with a slightly damp cloth and mild detergent. Avoid dropping the unit or placing it in a high-traffic location.






Do not expose the unit to direct sunlight since this may affect the accuracy of measurements.



WARNINGS



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

- Never immerse the unit in water. This can cause electrical shock and damage the unit.
- 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.

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SENSOR 
The **RADIO SIGNAL FORMAT** switch is located on the sensor. Select EU (DCF) or UK (MSF). 
 Reception takes 2 – 10 minutes to complete. Once complete, the icon will stop blinking. 
 Strong signal ... [2]

Deleted: 
Press **SEARCH** to manually activate search for radio-controlled clock signal. The tower icon will blink until the clock signal is found or the search period times out. 

Deleted: CLOCK 
This remote unit can automatically synchronize the date and time with official time-keeping organizations in Frankfurt (Germany) and Rugby (England). When the unit is within 1500 km (932 miles) of a RF signal, the reception icon will blink during reception. 

- 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 contents of this user manual are subject to change without notice.
- Images not drawn to scale.

TROUBLESHOOTING

Check here before contacting our customer service department.

Problem	Symptom	Remedy
Temp	Main unit shows "LLL" or "HHH"	Temperature is out of range.
Remote unit	Cannot locate main unit	Check batteries (->)
		Check location (->)

SPECIFICATIONS

Dimensions

L x W x H 70 x 24.5 x 116mm
(2.76 x 0.96 x 4.57 inches)

Weight 156 grams (0.34lb.) with battery

Temperature

Unit °C or °F
Range -20 °C to 60 °C (-4°F to 140°F)
Resolution 0.1 °C (0.2 °F)

Relative humidity

Range 5% to 95 %
Resolution 1%

Frequency

RF frequency 433 MHz
Range 100 meters (328 feet) with no obstructions
Transmission Approx. 40 seconds

Channel No.

Unit 1,2,3,4 or 5
°C or °F
Power 2 X UM-43 (AAA)
1.5V alkaline batteries.

EC-DECLARATION OF CONFORMITY

This product contains the approved transmitter

module TX 05 and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

Radio frequency spectrum
(Article 3.2 of the R&TTE Directive)
applied standard(s)
EN 300 220-3(Ver. 1.1.1):2000-09

Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
applied standard(s)
ETS EN 301 489-1-3 (Ver. 1.4.1): 2002-08

Safety of information technology equipment
(Article 3.1.a of the R&TTE directive)
applied standard(s)
EN 60950:2000

Additional information:
The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE marking.

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... [3]

VS-Villingen / Germany August 2003
Gerhard Preis
R&TTE Representative of manufacturer

CE 0682 0

RTT&E Compliant Countries:

All EC Countries, Switzerland ^(CH),
and Norway ^(N)

NOTE The RTGR328N works as an RF clock receiver for the models listed above or newer, but it does not work for previous models. If you want to purchase additional remote sensors, select a model that does not include the RF clock sensor.

THGR228N (3-channel sensor)




THGR328N (5-channel sensor with same design as RTGR328N but no RF clock function)

SET RADIO SIGNAL FORMAT

SENSOR

The **RADIO SIGNAL FORMAT** switch is located on the sensor. Select EU (DCF) or UK (MSF).

Reception takes 2 – 10 minutes to complete. Once complete, the icon will stop blinking.

Strong signal	Weak signal	No signal
		

NOTE For best results, place it away from metallic or electrical objects, and in a location with a clear view to the sky.

Clock	Cannot auto-sync	Manually activate auto-sync (→)
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