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## ADDITIONAL RESOURCES

Visit our website ([www.oregonscientific.com](http://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 Oregon Scientific Wireless Outdoor Temperature and Humidity Sensor (THGR 228 NF)

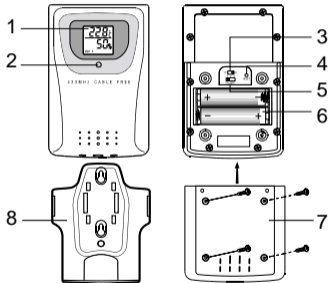
This sensor is compatible with a wide variety of weather monitoring tools, and can be used with most of the Oregon Scientific receiver units.

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.

In this box, you will find:

- Remote unit
- Batteries

## PRODUCT OVERVIEW



## DESCRIPTIONS



1. Temperature display
2. LED indicator
3. °C / °F switch
4. Reset button
5. Channel switch
6. Battery compartment
7. Battery compartment lid
8. Wall mount

## GETTING STARTED

This product can be used with up to 2 remote units to transmit outdoor temperature and humidity data to a main (indoor) unit. The measurement unit ( $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ ) and channel number (1, 2, or 3) switches are located in the battery compartment, and should be set prior to installation.

**NOTE** Additional remote units sold separately.

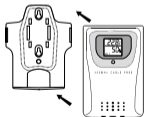
## SET UP

1. Place remote unit as close as possible to the main unit.
2. Remove the battery compartment lid. (You will need a small Phillips screwdriver.)
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. Insert the batteries. Match the polarity, as shown in the battery

compartment.

6. Press **RESET** with the point of a blunt object (such as a ball point pen).
7. Replace the battery compartment lid. Secure.
8. Mount the remote unit on a flat surface using the recess holes on the back of the mounting unit. Insert the sensor into the mounting unit, and gently push down to secure. For best results:

- Place the unit out of direct sunlight and moisture.



- Do not place the remote unit more than 20 – 30 meters (60 – 90 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.


9. 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, or 3) is selected. Refer to the main unit User Manual for more information.

### **CHANGE CHANNEL**

Repeat the Set Up procedure (→ 4). In Step 3, select a different Channel Number.

### **LOW BATTERY WARNING**

Replace the batteries whenever the low battery signal (  ) shows on the remote unit, or on the remote unit area of the main unit.

**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 with the point of a blunt object (such as a ball point pen) 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.
- 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 (→ 6)
		Check location (→ 5)



**SPECIFICATIONS****Dimensions**

L x W x H            92 x 60 x 20 mm  
                              (3.6 x 2.4 x 0.8 inches)

Weight                63 grams (0.1 lbs.)  
                              without batteries

**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                 25% to 95%  
Resolution            1%

**Frequency**

RF frequency        433 MHz  
Range                 30 meters (98 feet) with no  
                              obstructions  
Transmission        every 40 seconds

**Channel No.**        1, 2, or 3

**Unit**                 °C or °F

**Power**               2 x UM-4 (AAA) 1.5V  
                              alkaline batteries

## EC-DECLARATION OF CONFORMITY

This product contains the approved transmitter module TX 01 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:

Efficient use of radio frequency spectrum  
(Article 3.2 of the R&TTE Directive)

applied standard(s) **EN 300 220-1(2,3):1997**

Electromagnetic compatibility  
(Article 3.1.b of the R&TTE Directive)

applied standard(s) **ETS 300 683:1997**

Safety of information technology equipment  
(Article 3.1.a of the R&TTE directive)

applied standard(s) **EN 60950:1997**

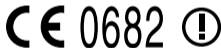
Additional information:

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.



VS-Villingen / Germany August 2001

Gerhard Preis

R&TTE Representative of manufacturer



**COUNTRIES RTTE APPROVAL COMPLIED**

All EC Countries, Switzerland   
and Norway 

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**Ferrari**

OFFICIAL LICENSED PRODUCT

**Wireless Remote Thermo-Hygro Sensor  
(Model #: THGR 228 NF)**

User Manual