

User Manual



Water Thermo Sensor  
Model: THWR288A

USER MANUAL

EN

INTRODUCTION

Thank you for selecting the Oregon Scientific™ Water Thermo Sensor THWR288A. This sensor measures water temperature and is compatible with a wide variety of weather monitoring tools. It can be used with most of the Oregon Scientific receiver units.

Read the manual thoroughly before operating the unit. It contains practical step-by-step instructions as well as technical specifications and warnings you should know about.

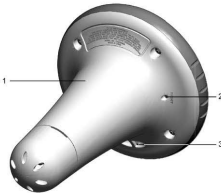
OVERVIEW

FRONT VIEW



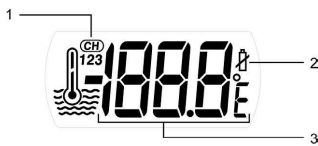
1. LED indicator

BACK VIEW



1. Main tubular casing  
2. RESET button  
3. String hole

LCD DISPLAY



1. Channel indicator  
2. Low battery indicator  
3. LCD temperature display

GETTING STARTED

This product can be used with additional remote sensor units to transmit outdoor temperature data to a main (indoor) unit. Refer to the main unit user manual for more information regarding the number of sensors it can support.

**NOTE:** Additional remote sensor units sold separately.

SET UP SENSOR

- Place the sensor as close as possible to the main unit.
- Use a small Phillips screwdriver and remove the 4 screws from the base of the tubular casing, then remove the casing from the lid.
- The battery compartment resides in the tubular casing. Remove the battery compartment lid and insert 2 x UM-3 / AA 1.5V batteries, matching the polarity. Replace the battery compartment lid.



- As shown in the below diagram, locate the channel number switch (1) and °C / °F switch for temperature measurement units (2) on the inside of the main lid.



- Assign a channel number. If using more than one remote unit, select a different channel number for each unit.
- Select the measurement unit.
- Use the 4 screws and re-attach the tubular casing onto the main lid.

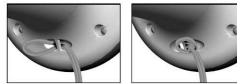
USING SENSOR

- Press the RESET button with the point of a blunt object (such as a ball point pen).



**TIP:** The RESET button can also be used 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.

- The sensor should already have a string looped through the hole at the base of the tubular casing. This will allow you to hang the unit while you immerse it in water.



- Place the sensor in the water making sure that it is within the effective transmission range (328 feet / 100 metres) of the main unit.
- The sensor will transmit signals every 40 seconds.

Minimise obstructions such as doors, walls and furniture between the main unit and sensor if the sensor cannot be placed close to the main unit. 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 10°F (-12°C). Disposable Lithium batteries have a much lower threshold for temperature with an estimated freezing range of below -40°F (-40°C). The Liquid Crystal Display in outdoor thermometers will remain operational to -20°F (-28°C) with adequate power.

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 main unit. 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).

**WARNING:** While you may use Lithium batteries to power the sensor and the sensor can withstand low temperatures, it is not recommended to use the THWR288A in temperatures below 32°F (0°C). Placing the sensor in frozen water may damage the unit.

LOW BATTERY WARNING

Replace the batteries whenever the low battery icon shows on the remote sensor, or on the remote sensor area of the main unit.

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

SAFETY AND CARE

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

- Clean the unit with a slightly damp cloth and mild detergent.
- Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
- Do not mix new and old batteries or batteries of different types.
- 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.

SPECIFICATIONS

TYPE	DESCRIPTION
Dimensions	100 (dia.) x 180 mm (H)
Weight	174g
Operating range in water	32°F (0°C) to 122°F (50°C)
Operation in room temp.	-22°F (-30°C) to 185°F (85°C)
Temp. resolution	0.2°F (0.1°C)
No. of channels	3
Data transfer	Approx. every 40 seconds
RF transmission range	328 feet (100 metres)
RF transmission frequency	433MHz
Batteries	2 x UM-3 / AA 1.5V
Remote sensor	Waterproof up to 1 metre (3.28 feet)

ABOUT OREGON SCIENTIFIC

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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: [www2.oregonscientific.com/service/support](http://www2.oregonscientific.com/service/support)

OR

Call 1-800-853-8883.

For international inquiries, please visit: [www.oregonscientific.com/about/international](http://www.oregonscientific.com/about/international)

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:

- 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](http://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 97082  
USA  
Telephone No.: 1-800-853-8883  
Fax No.: 1-503-684-3332

declare that the product  
Product No.: THWR288A  
Product Name: Water Thermo Sensor  
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.

EC-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Water Thermo Sensor model THWR288A 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.

IC STATEMENT

"Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."



COUNTRIES RTTE APPROVAL COMPLIED  
All EC countries, Switzerland and Norway

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086L003782-004