



## 4-Day Weather Forecaster

Model: WMH90

### USER MANUAL

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## INTRODUCTION

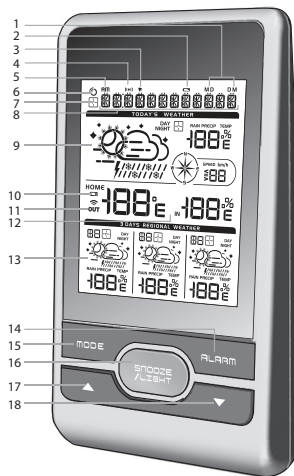
Thank you for selecting the Oregon Scientific™ 4-Day Weather Forecaster (WMH90).



This wireless, plug and play weather station is capable of receiving weather information from the whole of Europe. European countries and cities are user-selectable, allowing users to display the weather information of the selected European city on the main unit.

**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

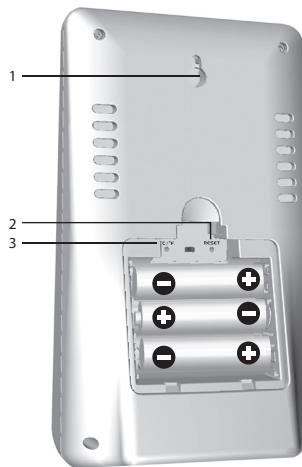


1. **MD / DM**: calendar format (month-day or day-month)
2. : main unit batteries low
3. : indicate daily alarm is On



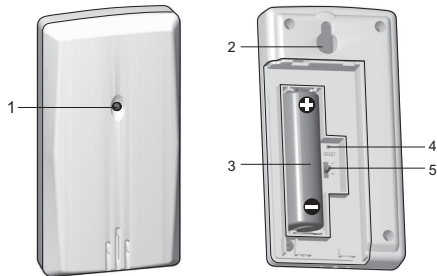
4. **(••)**: indicate in Alarm mode
5. **AM**: indicate AM / PM
6. : clock signal reception indicator
7. : weather information signal reception indicator
8. Country name / City name / Clock / Daily alarm / Calendar / Message
9. Today's regional weather forecast / Day and night temperature / Amount of precipitation / Wind speed and direction (user selected city)
10. : sensor batteries low
11. **OUT**: indicate outdoor sensor reception status
12. Local indoor and outdoor temperature and indoor humidity
13. Next 3-day regional weather forecast with day / night temperature and amount of precipitation (user selected city)
14. **ALARM**: activate / deactivate alarm; set alarm
15. **MODE**: toggle between time / calendar and message display; set clock
16. **SNOOZE / LIGHT**: activate snooze function; turn on backlight
17. : increase value of the setting; display next country / city; initiate sensor search with 
18. : decrease value of the setting; display previous country / city; initiate sensor search with 

## BACK VIEW



1. Wall mount hole
2. **RESET**: reset unit to default settings
3. **°C / °F**: select temperature unit

## REMOTE SENSOR



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

## GETTING STARTED

### SET UP REMOTE SENSOR

1. Slide open the battery door.
2. Insert battery, matching the polarities (+ / -).
3. Select channel then press **RESET**.
4. Close the battery door.

**TIP** 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 ▼.

### For best results:

- Place the sensor within 100 m (300 ft) of the main unit.
- Position the sensor so that it faces the main unit, minimizing obstructions such as doors, walls and furniture.
- Place the sensor out of direct sunlight and moisture.
- Place the sensor in a location with a clear view to the sky, away from metallic / electronic objects.
- Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.



The remote sensor reception icon will show the following status:

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

**NOTE** The main unit will search only for already registered sensor or new sensor reset within last 30 minutes. To register a new sensor, reset sensor prior to search.

**TIP** The transmission range may vary depending on many factors. You may need to experiment with various locations to get the best results.

### SET UP MAIN UNIT

**NOTE** Set up the remote sensor before installing the main unit.

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


**NOTE** Batteries should not be exposed to excessive heat such as sunshine or fire.

## WEATHER INFORMATION DISPLAY

### REGIONAL WEATHER INFORMATION

This unit displays the current and next 3-day weather information of a user-selected regional city. indicates strong signal reception of weather information.

ICON	LOCATION	DESCRIPTION
	Clock / Alarm / Calendar / Message area	Some cities' data are received
	Today's Weather / Regional Weather area	Past 2 days' data of the selected city
	Clock / Alarm / Calendar / Message area	Most cities' data are received
	Today's Weather / Regional Weather area	Yesterday's data of the selected city
	Clock / Alarm / Calendar / Message area	During signal testing, no signal synchronized
	Today's Weather / Regional Weather area	Past 2 days' data of the selected city, with message

 (blinking)	Clock / Alarm / Calendar / Message area	During signal testing, signal synchronized
	Today's Weather / Regional Weather area	Yesterday's data of the selected city, with message
No icon	Clock / Alarm / Calendar / Message area	No information received
	Today's Weather / Regional Weather area	No valid data for the selected city

#### To select a city (within a selected country):

Press ▲ or ▼.





















#### To select a country:

Press and hold **MODE**. Then press ▲ or ▼. Press **MODE** to confirm.

For current weather information, the unit will display the weather forecast icon, day / night temperature, amount of precipitation and wind speed / direction.

For the next 3-day weather information, the unit will display the weather forecast icon, day / night temperature and amount of precipitation.

**NOTE** The table below lists the weather forecast icons and their respective meanings.

Day-time icon	Meaning	Night-time icon
	Sunny / Clear	
	Mainly cloudy	
	Cloudy	
	Foggy	
	Rain showers	
	Heavy rain	
	Deluge	
	Sultry	
	Sleet	
	Flurry	



## LOCAL TEMPERATURE AND HUMIDITY

Display of the local temperature and humidity is automatically toggled between one another.

**NOTE** When the temperature is out of range, "HH.H" and "LL.L" will be displayed until the temperature is within range again.

## WEATHER WARNING MESSAGE

When there is weather warning message, it is automatically displayed in scrolling manner and toggled with clock / calendar.

### To review messages:

Press **MODE** repeatedly.

## CLOCK

This product is designed to synchronize its clock automatically with a clock signal:

- DCF-77 signal of Frankfurt, Germany
- HBG-75 signal of Prangins, Switzerland

**NOTE** Reception takes 2-10 minutes. If the signal is weak, it can take up to 24 hours to get a valid signal. If signal reception is unsuccessful, place your unit next to a window.

### Clock signal reception indicator:

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL

## TO MANUALLY SET CLOCK

1. Press and hold **MODE**.
2. Press **▲** / **▼** to change setting options. The settings order is: country, city, display contrast, +/-1 time zone, 12/24 hour format, hour, minute, year, month-day / day-month, month, day and language.
3. Press **MODE** to confirm.



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

**NOTE** If the clock signal reception is strong, you are unable to manually set the time.



## ALARM

### TO SET ALARM

1. Press **ALARM** to enter Alarm mode. **(●)** indicates in Alarm mode.
2. Press and hold **ALARM** to enter settings.

3. Press  /  to set hour and minute.
4. Press **ALARM** to confirm.
5. Press **MODE** to return to clock display.

### TO ACTIVATE / DEACTIVATE ALARM

1. Press **ALARM** to enter Alarm mode.  indicates in Alarm mode.
2. Press **ALARM** repeatedly to activate or deactivate alarm.  indicates alarm is On.
3. Press **MODE** to confirm and return to clock display.



### TO SILENCE ALARM

- Press **SNOOZE / LIGHT** to snooze alarm for 8 minutes.

OR

- Press any key to turn the alarm off and activate it again after 24 hours.

### DISPLAY CONTRAST

You can adjust the clarity level of the display. Press and hold **MODE** until "CONTR" is shown, then select from 0 (lowest) to 15 (highest) by pressing  /  for your preferred level of display contrast. Press **MODE** to confirm.

### BACKLIGHT

Press **SNOOZE / LIGHT** to activate LED backlight for 8 seconds.

### RESET

Press **RESET** to return to the default settings.

### SPECIFICATIONS

#### MAIN UNIT

Dimensions (L x W x H)	95 x 48 x 165 mm (3.7 x 1.9 x 6.5 in)
Weight	240 g (8.47 oz) without battery
Temperature range	-5°C to 50°C (23°F to 122°F)
Temperature resolution	0.1°C (0.2°F)
Humidity range	25% to 90%
Humidity resolution	1%
Power	3 x UM-3 (AA) 1.5V batteries

#### REMOTE THERMO SENSOR (THN132N)

L x W x H	96 x 50 x 22 mm (3.78 x 1.97 x 0.87 in)
Weight	50 g (1.76 oz) without battery





Temperature range	-20°C to 60°C (-4°F to 140°F)
Temperature resolution	0.1°C (0.2°F)
Signal frequency	433 MHz
Transmission range	100 m (300 ft) unobstructed
Transmission period	Approximately every 60 seconds
Number of channels	3
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.

**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.

## ABOUT OREGON SCIENTIFIC

Visit our website ([www.oregonscientific.com](http://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:

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

OR

Call 1-800-853-8883.


For international inquiries, please visit: [www2.oregonscientific.com/about/international.asp](http://www2.oregonscientific.com/about/international.asp).

## EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this 4-Day Weather Forecaster (Model: WMH90) 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   
and Norway 