

Wireless Weather Forecaster with Temperature and Humidity

Model: BAR638HGA
USER MANUAL

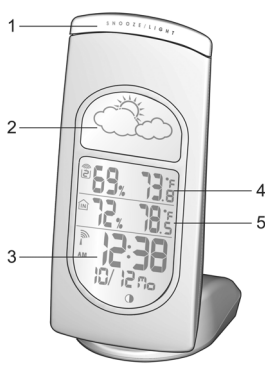
INTRODUCTION

Thank you for selecting the Oregon Scientific™ Wireless Weather Forecaster with Temperature and Humidity (BAR638HGA). This device bundles precise time keeping, weather forecast, and indoor and outdoor temperature and humidity monitoring features into a single tool you can use from the convenience of your home.

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.

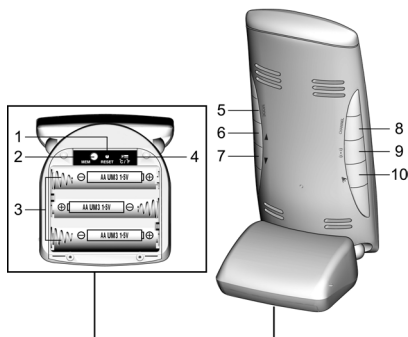
PRODUCT OVERVIEW

FRONT VIEW



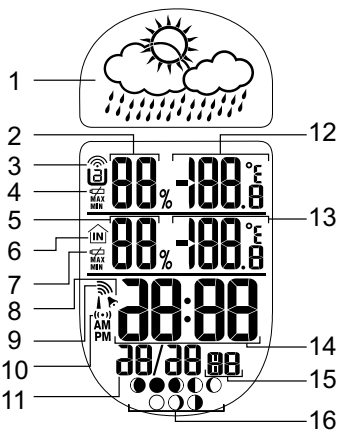
1. SNOOZE / LIGHT button
2. Weather Forecast Area
3. Clock / Alarm / Calendar Area
4. Outdoor Temperature & Humidity Area
5. Indoor Temperature & Humidity Area

BACK VIEW



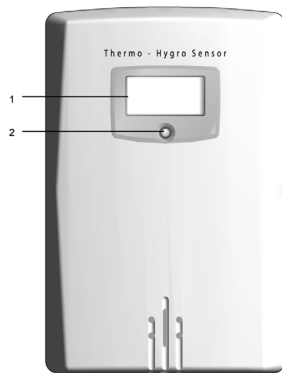
1. RESET hole
2. MEM: View current, maximum and minimum temperature and humidity readings
3. Battery compartment (cover off)
4. °C / °F switch
5. MODE: Change display / settings
6. ▲: Increase setting / activate atomic clock
7. ▼: Decrease setting / deactivate atomic clock
8. CHANNEL: Switch remote sensor
9. (••): View alarm status; set alarm
10. ⚡: Press to activate or deactivate alarm

LCD DISPLAY

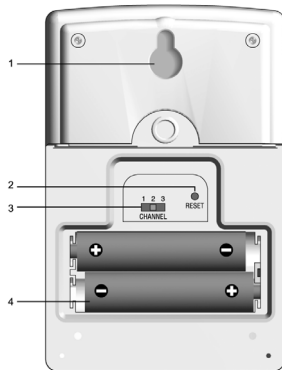


1. Weather display
2. Outdoor humidity
3. Outdoor sensor signal
4. Low battery icon for sensor
5. Indoor humidity
6. Indoor icon
7. Low battery icon for main unit
8. Alarm activated
9. Atomic clock reception icon
10. Alarm setting
11. Calendar
12. Outdoor temperature
13. Indoor temperature
14. Time
15. Day of the week / seconds / time zone
16. Moon Phase

REMOTE SENSOR (THGR122NX)



1. LCD display
2. LED status indicator



1. Wall mount hole
2. RESET hole
3. CHANNEL number (1-3)
4. Battery compartment (Battery compartment cover not shown)

GETTING STARTED

BATTERIES

Main unit 3 x UM-3 (AA) 1.5V batteries
Remote unit 2 x UM-4 (AAA) 1.5V batteries

Insert batteries before first use, matching the polarity (+ and -) as shown in the battery compartment. For best results, install batteries in the remote sensor before the main unit. Press **RESET** after each battery change.

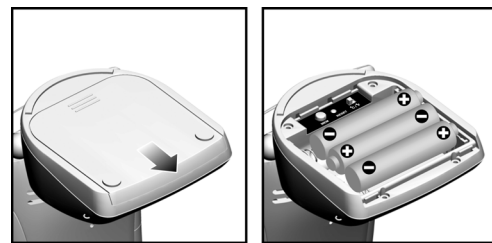
NOTE Do not use rechargeable batteries.

⚡ shows when batteries are low.

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

UNIT	LOCATION
Main	Indoor Temperature / Humidity Area
Remote	Outdoor Temperature / Humidity Area

Installing the batteries:

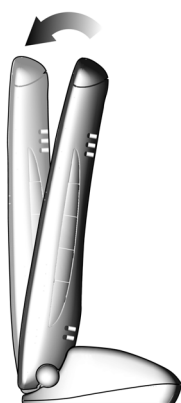


CHANGE SETTINGS

To change, time, calendar and language settings:

1. Press and hold **MODE** for 2 seconds to enter setting mode.
2. Press ▲ or ▼ to change settings. (To reach the setting you want quickly, press and hold ▲ or ▼.)
3. Press **MODE** to confirm.

TABLE STAND

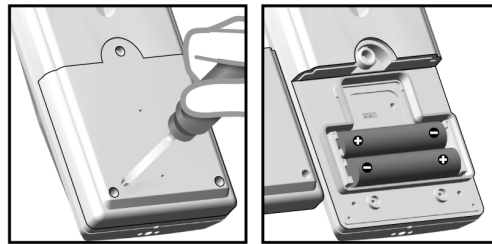


REMOTE SENSOR (THGR122NX)

This product is shipped with a THGR122NX Thermo / Hygro Sensor that collects Temperature and Humidity data. Data can be collected from up to 3 sensors. Additional sensors sold separately.

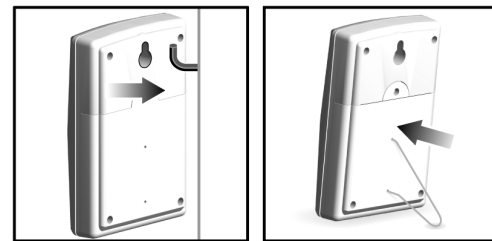
SET UP SENSOR

1. Open the remote sensor battery compartment with a small Phillips screwdriver.
2. Insert the batteries, matching the polarity (+ and -) as shown in the battery compartment.



SWITCH	OPTION
Channel	Channel 1-3. If you are using more than one sensor, select a different channel for each sensor.

3. Set the channel. The switch is located in the battery compartment.
4. Place the sensor near the main unit. Press **RESET** on the main unit to initiate signal sending between the sensor and the main unit. The reception icon on the main unit will blink for approximately 3 minutes while it is searching for the sensor. (Refer to the "Data Transmission" section for more information.)
5. Close the remote sensor battery compartment.
6. Secure the sensor in the desired location using the wall mount or table stand.



For best results:

- Insert the batteries and select the channel before you mount the sensor.
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 98 feet (30 meters) from the main (indoor) unit.
- Position the sensor so that it faces the main (indoor) unit, minimizing obstructions such as doors, walls, and furniture.
- Place the sensor in a location with a clear view to the sky, away from metallic or 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.

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).

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 base station. If the unit's performance fails 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). The Liquid Crystal Display in outdoor thermometers will remain operational to -20°F (-7°C) with adequate power.

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

DATA TRANSMISSION

Data is sent from the sensor(s) every 40 seconds. The reception icon shown in the Temperature and Humidity Areas show the status.

ICON	DESCRIPTION
	Main unit is searching for sensors.
	At least 1 channel has been found.
	Channel 1 is selected (number will change depending on the sensor you select).
---	The selected sensor cannot be found. Search for the sensor or check batteries.

SEARCH FOR SENSOR

To search for a sensor, press and hold **MEM** and **CHANNEL** (on the main unit) for 2 seconds.

NOTE If the sensor is still not found, check the batteries, obstructions, and remote unit location.

NOTE Signals from household devices such as doorbells, electronic garage doors, and home security systems may cause temporary reception failure. This is normal and does not affect general product performance. The reception will resume once the interference ends.

CLOCK

The clock automatically synchronizes the current time and date when it is brought within range of the WWVB-60 atomic clock signal generated from Fort Collins, Colorado. For more information, please visit: www.boulder.nist.gov/timefreq/stations/>radioclocks.htm

NOTE The signals are collected by the main unit when it is within 1500 km (932 miles) of a signal.

Initial reception takes 2-10 minutes, and is initiated when you first set up the unit, and whenever you press **RESET**. If the RF signal is weak, it can take up to 24 hours to get a valid RF signal reception. Once complete, the reception icon will stop blinking. The icon is shown in the Clock Area.

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL

To force a manual search for clock signals, press and hold ▲ for 2 seconds. If no signal is found, check the batteries.

TIME ZONES

When the main unit receives an atomic clock signal for the first time, or when you force a manual search for the atomic clock reception, the time will automatically be set to Pacific time (PA). To change to another time zone (MO - Mountain, CE - Central or EA - Eastern) simply:

1. Press and hold **MODE** for 2 seconds.
2. Press ▲ or ▼ to change the setting.
3. Press (••) to confirm and exit setting mode.

TURN ATOMIC CLOCK ON / OFF

Perform this step if you cannot receive atomic clock signals. Press and hold ▼ for 2 seconds. Then, manually set the clock following the "Set Clock" instructions (below).

The signal icon indicates that the clock feature is ON. No icon means that it is OFF.

SET CLOCK / CALENDAR

You only need to do this if you have disabled the atomic clock feature (for example, if you are too far from or cannot receive a signal).

1. Press and hold **MODE** for 2 seconds. The Clock Area will blink.
2. Select the time zone, hour, minute, year, month, day, and day of the week language. Press ▲ or ▼ to change the setting.
3. Press **MODE** to confirm.

The time zone options are PA (Pacific), MO (Mountain), CE (Central) and EA (Eastern).

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

SWITCH CLOCK DISPLAY

Press **MODE** to toggle between Clock with Seconds and Clock with Weekday display.

ALARM

This product is equipped with a 2-minute crescendo alarm.

VIEW ALARM SETTINGS

Press (••). The alarm time and alarm status will show in the Clock Area.

SET ALARM

1. Press (••) to switch to alarm display.
2. Press and hold (••) again for 2 seconds. The alarm settings will blink.
3. Select the hour and minute. Press ▲ or ▼ to change settings. Press (••) to confirm.

ACTIVATE ALARM

Press ⚡ to activate or deactivate the alarm. ⚡ shows in the Clock / Alarm Area when the alarm is activated.

SILENCE ALARM

When the alarm time is reached, the crescendo alarm will sound for 2 minutes. To silence the alarm:

- Press **SNOOZE** to silence it for 8 minutes.
- OR
- Press any key except **SNOOZE** to mute the alarm and activate it again after 24 hours.

If no button is pressed, the alarm will automatically silence after 2 minutes. It will then sound again after 8 minutes.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius with 70 to 75 percent accuracy. The weather forecast is always displayed.

SUNNY	PARTLY CLOUDY	CLOUDY	RAINY

TEMPERATURE AND HUMIDITY

This product can display current, minimum, and maximum temperature and humidity percentage information collected by the remote sensors and main (indoor) unit.

Outdoor data is collected and displayed every 40 seconds.
Indoor data is collected and displayed every 10 seconds.

SELECT TEMPERATURE UNIT

Slide the °C / °F switch into the desired location. The switch is located in the main unit battery compartment. The setting for the main unit overrides the remote sensor setting.

SELECT CHANNEL NUMBER

Press **CHANNEL** to switch between sensors 1-3.

The icon shows the selected sensor.

KINETIC-WAVE ICON	Indoor Display	Remote Display Channel 1	Remote Display Channel 2	Remote Display Channel 3
DESIGNATED DISPLAY				

To auto-scan between sensors, press and hold **CHANNEL** for 2 seconds. Each sensor's data will be displayed for 3 seconds. To end auto-scan, press **CHANNEL** or **MEM**.

NOTE If you use a sensor that collects only temperature data, humidity will not be shown.

NOTE For more information on the sensor see "Remote Sensor THGR122NX" section.

MINIMUM / MAXIMUM RECORDS

The **MEM** button is located in the main unit battery compartment. Press **MEM** to toggle between current, maximum (MAX) and minimum (MIN) records. To clear the records, press and hold **MEM** for 2 seconds. A beep will sound to confirm that the memory has been cleared.

MOON PHASE

The Calendar must be set for this feature to work, see "Set Clock" section.

- Press ▲ or ▼ to view the moon phase for the next or previous day.
- Press and hold ▲ or ▼ to scan quickly through the years (2001 to 2099).

	New Moon
	Waxing Crescent
	First Quarter
	Waxing Gibbous
	Full Moon
	Waning Gibbous
	Last Quarter
	Waning Crescent

RESET SYSTEM

The **RESET** button is located in the main unit battery compartment. Press **RESET** when you change the batteries and whenever performance is not behaving as expected (for example, unable to establish radio frequency link with remote sensor or atomic clock).

BACKLIGHT

Press **LIGHT** to activate the backlight for 8 seconds.

SAFETY AND CARE

Clean the product with a slightly damp cloth and alcohol-free, mild detergent. Avoid dropping the product or placing it in a high-traffic location.

WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product. Observe the following guidelines:

- Never immerse the product in water. This can cause electrical shock and damage the product.
- 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.
- Please note that placement of this product on wood surfaces with certain types of finishes, such as clear varnish, may result in damage to the finish. Please consult the furniture manufacturer's care instructions for direction as to the types of objects that may safely be placed on the wood surface. Oregon Scientific shall not be responsible for any damage to wood surfaces from contact with this product.

NOTE The technical specification of this product and contents of this user guide are subject to change without notice. Images not drawn to scale.

TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Calendar	Strange date / month	Change language
Clock	Cannot adjust clock	Disable atomic clock
	Cannot auto-synchronize the date and time	1. Adjust batteries 2. Press RESET
		3. Manually activate atomic clock feature

Temp	Shows "LLL" or "HHH"	Temperature is out-of-range
Remote sensor	Cannot locate remote sensor	Check batteries Check location
	Cannot change channel	Check sensors. Only one sensor is working
	Data does not match main unit	Initiate a manual sensor search

SPECIFICATIONS

MAIN UNIT DIMENSIONS

L x W x H	68.9 x 157.6 x 26.3 mm (2.71 x 6.2 x 1.04 inches)
Weight	207 g (7.3 ounces) without battery

REMOTE SENSOR DIMENSIONS

L x W x H	92 x 60 x 20 mm (3.6 x 2.4 x 0.79 inches)
Weight	63 grams (2.22 ounces) without battery

TEMPERATURE

Unit	°F / °C
Indoor range	23°F to 122°F (-5°C to 50°C)
Outdoor range	-4°F to 140°F (-30°C to 60°C)
Resolution	0.2°F (0.1°C)

RELATIVE HUMIDITY

Range	25% to 95%
Resolution	1%
Memory	Minimum / maximum

WEATHER FORECAST

Display	Rainy, cloudy, partly cloudy, sunny
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REMOTE SENSOR (THGR122NX)

RF frequency	433 MHz
Range	98 feet (30 meters) with no obstructions
Transmission	Every 40 seconds
Channel No.	1-3

CLOCK

Atomic clock	Auto or manual (disabled)
Clock display	HH:MM:SS
Hour format	12hr AM / PM (Model BAR638HGA)
Calendar	DD / MM; weekday in 5 languages (E, D, F, I, S)
Alarm	Single alarm with 2-minute crescendo and 8-minute snooze

POWER

Main unit batteries	3 x UM-3 (AA) 1.5V
Sensor batteries	2 x UM-4 (AAA) 1.5V

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our Customer Care department in case you need to reach us, as well as frequently asked questions and customer downloads.

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

OR

Call 1-800-853-8883.

For international enquiries, please visit: www2.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), 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
Fax No.: 1-503-684-3332

declare that the product

Product No.: BAR638HGA
Product Name: 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.