Thank you for selecting this Oregon Scientific Wireless Weather Station with Temperature / Humidity Display and Self-Setting Atomic Clock (BAR688HGA). This clock is supplied with a remote sensor (THGR122N) and can support up to 3 sensors in total (additional sensors sold separately).

### Clock Overview

**Front View**
1. Snooze
2. Weather Forecast Area
3. Outdoor Temperature Area
4. Indoor Temperature Area
5. Clock / Alarm Area

**Back View**
1. Temp / Humidity HI / LO
2. Increase / decrease setting; activate / deactivate clock reception signal

### Setting Up the Clock

**Getting Started**

Insert batteries before first use, matching the polarity (+ and -). RESET after each battery change.

**REMOTE SENSOR (THGR122N)**

1. LED status indicator: Blinks red during data transmission
2. LCD screen

**REMOTE SENSORS**

- **Model**: BAR688HGA
- **Overview**
  - **Pressure**
  - **Temperature**
  - **Humidity**
  - **Wind Speed**

**STARTUP**

1. SIMULTANEOUSLY press **CHANNEL** and **MEM** on the main unit to initiate signal sending between the sensor and main unit.
2. Place the sensor out of direct sunlight and moisture.
3. Position the sensor so that it faces the main (indoor) unit.
4. Do not place the sensor more than 30 m (100 ft) from the main (indoor) unit.
5. Do not put the sensor near electronic objects.

**RECEPTION**

- **STRONG SIGNAL**
- **WEAK SIGNAL**
- **NO SIGNAL**

**CLOCK**

The product is designed to synchronize its date and time automatically once it is within range of the WWVB-60 signal from the atomic clock in Boulder, Colorado.

**RECEPTION SIGNAL**

Clock signal reception indicator:

**For best results:**
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 30 m (100 ft) 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.

**DATA TRANSMISSION**

Data is sent from the sensor(s) every 40 seconds. The sensor reception icon in the remote sensor area shows the status.

**NOTE**

Do not use rechargeable batteries. We recommend that you use alkaline batteries with this product for longer usage and lithium batteries in temperatures below freezing.

**NOTE**

- For best results, you may need to experiment with various locations to get the best results.

**LANGUAGES**

- English (E)
- German (D)
- French (F)
- Italian (I)
- Spanish (S)

** WARNING**

Standard Alkaline batteries contain significant amounts of water. Because of this they will freeze in low temperatures of approximately -12°C (10°F). Disposible Lithium batteries have a much lower threshold for temperature with an estimated freezing range of below -30°C (-22°F).

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.

**NOTE**

- 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).

**SPECIFICATIONS**

- **OPERATING RANGE**: 1500 km (932 miles) of a signal.
- **SENSORS**: The sensor collects radio signals whenever it is within 30 m (100 ft) of a signal.

**BATTERY COMPARTMENT**

- **Insert batteries before first use, matching the polarity (+ and -). RESET after each battery change.**

**NOTE**

- Do not use rechargeable batteries.

**SUPPORT**

- **REMOTE SENSOR**
  - **Model**: BAR688HGA
- **Overview**
  - **Pressure**
  - **Temperature**
  - **Humidity**
  - **Wind Speed**

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5. Do not place the sensor near electronic objects.
6. Place the sensor in a location with a clear view to the sky, away from metallic or electronic objects.
7. Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.

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**NOTE**

- Do not use rechargeable batteries.
ALARM
To set the alarm:
1. Press and hold ALARM for 2 seconds.
2. Press ▲ or ▼ to set hour / minute.
3. Press ALARM or MODE to confirm. ▲ indicates alarm is ON.
        To toggle alarms ON / OFF:
1. Press ALARM to display alarm time
2. Press ALARM again to turn alarm ON / OFF.
To silence the alarm:
• Press SNOOZE to silence it for 8 minutes OR
• Press any key except SNOOZE to turn the alarm off and activate it again after 24 hours.

BAROMETER
Barometer readings from the past 24 hours are stored by the main unit and used to provide weather forecast.
To select barometer measurement unit:
Press PRESSURE to toggle between mb and inHg.

WEATHER FORECAST
This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius based on barometric pressure trend readings.

TEMPERATURE AND HUMIDITY
To toggle temperature unit:
• Slide °C / °F to the desired setting. The setting for the main unit overrides the sensor setting.

MAXIMUM / MINIMUM RECORDS
To view records:
1. Press CHANNEL to select a sensor.
2. Press MEM to toggle maximum / minimum and current settings for the sensor selected.
To clear maximum and minimum records press and hold MEM for 2 seconds.

WARNING
If the channel 1 sensor falls between 3°C to –2°C (37°F to 28°F), 3 flashes to warn you that the temperature is approaching freezing.

NOTE The warning will automatically stop if the temperature goes outside the ice-warning range.

MOON PHASE
• When calendar is set press ▲ or ▼ to view the moon phase for the next / previous day.
• Press and hold ▲ or ▼ to scan through the years (2001 to 2009).

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

PRECAUTIONS
This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:
• Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
• 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. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN UNIT</td>
<td>L x W x H</td>
</tr>
<tr>
<td>Weight</td>
<td>214 g (7.5 oz)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>°C / °F</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1°C (0.2°F)</td>
</tr>
<tr>
<td>Clock frequency</td>
<td>WWVB-80 (US)</td>
</tr>
<tr>
<td>Synchronization</td>
<td>Auto or disabled</td>
</tr>
<tr>
<td>Signal frequency</td>
<td>433 MHz</td>
</tr>
<tr>
<td>Clock</td>
<td>Auto or manual (disabled)</td>
</tr>
<tr>
<td>Humidity range</td>
<td>20% - 90%</td>
</tr>
<tr>
<td>Humidity resolution</td>
<td>1%</td>
</tr>
<tr>
<td>MEM</td>
<td>Min / Max relative humidity and temperature</td>
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<tr>
<td>Alarm duration</td>
<td>2 minutes</td>
</tr>
<tr>
<td>Snooze</td>
<td>8 minutes</td>
</tr>
<tr>
<td>Clock display</td>
<td>HH:MM:SS</td>
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<tr>
<td>Calendar</td>
<td>MM/DD or DD/MM</td>
</tr>
<tr>
<td>Language selectable</td>
<td>E, D, F, I and S</td>
</tr>
</tbody>
</table>

POWER
3 x UM-3 (AA) 1.5 V batteries

REMOTE UNIT
L x W x H | 92 x 60 x 20 mm (3.6 x 2.4 x 0.8 in) |
Weight | 62 g (2.2 ounces) |
Transmission range | 300 m (1000 ft) |
Temperature range | 30°C to 60°C (-22°F to 140°F) |
Power | 2 x UM-4 (AAA) 1.5 V batteries |

NOTE We recommend that you use alkaline batteries with this product for longer usage and lithium batteries in temperatures below freezing.

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: www.oregonscientific.com/service/default.asp
OR
Call 1-800-853-8883.

For international inquiries, please visit: www.oregonscientific.com/about/international.asp

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.

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 support or sales instead.

We
Name: Oregon Scientific, Inc.
Address: 19861 SW 95th Ave., Tualatin, Oregon 97062 USA
Telephone No.: 1-800-853-8883

declare that the product
Product No.: BAR688HGA
Product Name: Wireless Weather Station with Temperature / Humidity Display and Self - Setting Atomic Clock
Manufacturer: IDT Technology Limited
Address: Block C, 9/F, Kaiser Estate, Phase 1, Man Yue St., Hung Hong, 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, and 2) This device must accept any interference received, including interference that may cause undesired operation.

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