



Manuals.plus /

› Oregon Scientific /

› Oregon Scientific BAR208SX Advanced Wireless Weather Station User Manual

Oregon Scientific BAR208SA_BK

Oregon Scientific BAR208SX Advanced Wireless Weather Station User Manual

Model: BAR208SA_BK

[Overview](#)

[Components](#)

[Setup
Specifications](#)

[Operation](#)

[Maintenance
Warranty & Support](#)

[Troubleshooting](#)

1. PRODUCT OVERVIEW

The Oregon Scientific BAR208SX is an advanced wireless weather station designed to provide real-time environmental data. It features a color LCD screen that displays indoor and outdoor temperature and humidity, a radio-controlled clock, weather forecasts, and an ice alert function. This device supports multi-zone monitoring, allowing connection with up to three additional wireless sensors.

Key Features:

- Weather forecast, ice alert, moon phase, and weather warning messages.
- Indoor and outdoor temperature and humidity monitoring in Celsius or Fahrenheit.
- Atomic, radio-controlled clock with time zone offset and 12/24-hour format.
- Multi-zone capability: Monitor up to 3 additional locations wirelessly up to 100 feet (one THGR511 sensor included).
- Easy-to-read LCD display with backlight toggle.
- Portable and wireless operation using AA batteries.



Figure 1.1: Front view of the BAR208SX main unit, showing the color LCD display with temperature, humidity, time, and weather forecast icons.

2. PRODUCT COMPONENTS

The Oregon Scientific BAR208SX package includes the following items:

- BAR208SX Weather Station Main Unit
- THGR511 Wireless Outdoor Sensor (1 unit)
- AA Batteries (for main unit and sensor)
- AC Adapter (for main unit, optional power source)



Figure 2.1: Front and back view of the THGR511 wireless outdoor sensor, showing the Oregon Scientific logo and mounting hole.

3. SETUP GUIDE

3.1. Battery Installation

1. For the Wireless Outdoor Sensor (THGR511):

- Open the battery compartment cover on the back of the sensor.
- Insert the required AA batteries, observing the correct polarity (+/-).
- Close the battery compartment cover securely.
- Select a channel (1, 2, or 3) using the switch inside the battery compartment. The default is Channel 1.

2. For the Main Unit (BAR208SX):

- Open the battery compartment cover on the back of the main unit.
- Insert the required AA batteries, observing the correct polarity (+/-).
- Alternatively, connect the AC adapter to the main unit and a power outlet for continuous power and backlight.
- Close the battery compartment cover securely.



Figure 3.1: Back view of the BAR208SX main unit, showing the battery compartment and DC input port.

3.2. Initial Synchronization

After installing batteries in both the sensor and the main unit, the main unit will automatically search for the outdoor sensor signal. This process may take a few minutes. Ensure the sensor is within range (up to 100 feet) of the main unit.

3.3. Sensor Placement

For accurate outdoor temperature and humidity readings, place the wireless sensor in a shaded, well-ventilated area, protected from direct sunlight and precipitation. Avoid placing it near heat sources, metal objects, or large electrical appliances that could interfere with the signal. Optimal placement is typically on a north-facing wall or under an eave.

3.4. Radio-Controlled Clock Setup

The BAR208SX features an atomic, radio-controlled clock. Upon initial power-up, it will attempt to synchronize with the atomic clock signal. This process can take several hours, especially in areas with weak signals. For best reception, place the main unit near a window and away from electronic devices that may cause interference.

- To manually set the time zone, refer to the 'Operating' section.
- If the clock does not synchronize automatically, manual time setting is also possible.

4. OPERATING INSTRUCTIONS

4.1. Display Overview

The color LCD display provides various information at a glance:

- **Outdoor Temperature & Humidity:** Located at the top, showing current readings from the wireless sensor.
- **Weather Forecast:** Icons indicating predicted weather conditions (sunny, cloudy, rainy, etc.).
- **Moon Phase:** Displays the current phase of the moon.
- **Message Area:** Displays weather warnings or other alerts.
- **Indoor Temperature & Humidity:** Located at the bottom, showing current readings from the main unit's internal sensors.
- **Time & Date:** Radio-controlled time and date.
- **Ice Alert:** An indicator that flashes when outdoor temperatures approach freezing.

4.2. Button Functions

The main unit features several buttons for navigation and settings:

- **MODE:** Toggles between display modes or enters setting menus.
- **LIGHT:** Activates the backlight for a few seconds (if running on batteries) or adjusts brightness (if using AC adapter).
- **MEM:** Displays maximum/minimum temperature and humidity records.
- **UP/DOWN Arrows (▲/▼):** Adjust values during settings or cycle through outdoor sensor channels.

4.3. Setting Time and Date

While the clock is radio-controlled, you may need to set the time zone or manually adjust if the signal is unavailable.

1. Press and hold the **MODE** button to enter time setting mode.
2. Use the **UP/DOWN** arrows to adjust the flashing value (e.g., time zone, hour, minute, year, month, day).
3. Press **MODE** again to confirm and move to the next setting.
4. Press **MODE** repeatedly until all settings are confirmed and you exit the setting mode.

4.4. Temperature Unit Selection

To switch between Celsius (°C) and Fahrenheit (°F), locate the °C/°F button (often a small pinhole button) on the back of the main unit or within the battery compartment. Use a pointed object to press it.

4.5. Multi-Zone Monitoring

If you have additional THGR511 sensors (sold separately), you can monitor up to three outdoor locations.

1. Ensure each additional sensor is set to a unique channel (1, 2, or 3) using its internal switch.
2. On the main unit, press the **UP/DOWN** arrow buttons to cycle through the channels and view readings from different sensors.

5. MAINTENANCE

5.1. Battery Replacement

Replace batteries in both the main unit and the wireless sensor when the low battery indicator appears on the display. Always replace all batteries in a unit at the same time with new, high-quality batteries of the same type. Ensure correct polarity.

5.2. Cleaning

Clean the main unit and sensor with a soft, damp cloth. Do not use abrasive materials or corrosive cleaners, as these can damage the plastic components and display. Keep the devices dry.

5.3. Sensor Care and Placement

Periodically check the outdoor sensor for debris or obstructions. Ensure it remains in a location that provides accurate readings, away from direct sunlight, rain, and heat sources. Extreme weather conditions can affect battery life and sensor performance.

6. TROUBLESHOOTING

6.1. No Outdoor Temperature/Humidity Reading

- **Check Batteries:** Ensure both the main unit and the outdoor sensor have fresh batteries installed correctly.
- **Sensor Channel:** Verify that the outdoor sensor's channel switch matches the channel selected on the main unit.
- **Range and Interference:** Move the sensor closer to the main unit. Ensure there are no large metal objects, thick walls, or strong electronic devices between them that could block the signal. The maximum range is approximately 100 feet (30 meters) in open air.
- **Reset:** Remove batteries from both units, wait 1 minute, then reinsert batteries first into the sensor, then into the main unit.

6.2. Inaccurate Temperature/Humidity Readings

- **Sensor Placement:** Ensure the outdoor sensor is not in direct sunlight, near heat sources (e.g., vents, windows), or exposed to rain. Direct sunlight can cause significantly higher temperature readings.
- **Ventilation:** Ensure the sensor is in a well-ventilated area.

6.3. Radio-Controlled Clock Not Setting

- **Signal Strength:** Place the main unit near a window, away from electronic interference. The signal is strongest at night.
- **Time Zone:** Ensure the correct time zone is selected in the settings.
- **Manual Set:** If automatic synchronization fails consistently, manually set the time as described in the 'Operating Instructions' section.

6.4. Dim Display

- **Battery Freshness:** Ensure fresh batteries are installed. A dim display is often an indication of low battery power.
- **AC Adapter:** For a consistently bright display, use the included AC adapter.

7. SPECIFICATIONS

Model	BAR208SA_BK
Brand	Oregon Scientific
Power Source	Battery Powered (AA batteries included), AC Adapter
Connectivity Technology	433 MHz or 868 MHz Wireless
Display Type	Color LCD
Temperature Accuracy	±1 degree Celsius
Included Components	BAR208 weather station, THGR511 sensor, AA batteries, AC adapter
Material	Plastic
Item Weight	12.8 ounces

8. WARRANTY AND SUPPORT

This Oregon Scientific product comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modifications, or improper installation.

For warranty claims, technical support, or further assistance, please refer to the official Oregon Scientific website or contact their customer service department. Keep your proof of purchase for warranty validation.