

## Oregon Scientific LWS0702510118001

# Oregon Scientific BAR206 Weather Forecast Temperature Station

MODEL: LWS0702510118001

## Introduction

The Oregon Scientific BAR206 Weather Forecast Temperature Station is designed to provide accurate indoor and outdoor temperature readings, indoor humidity, and a 12-24 hour weather forecast. It features an atomic clock for precise timekeeping and an Ice Alert function. This manual provides instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your device.

## Safety Information

- Do not expose the main unit to extreme temperatures, direct sunlight, or moisture.
- Ensure the wireless sensor is placed in a sheltered location to protect it from direct rain and sunlight, which can affect accuracy and battery life.
- Use only the specified battery types (AA for main unit, AA for remote sensor).
- Do not mix old and new batteries or different types of batteries.
- Dispose of used batteries responsibly according to local regulations.
- Keep the device away from strong magnetic fields or electrical interference sources.

## Package Contents

- BAR206 Main Unit (White)
- Wireless Remote Temperature Sensor (THN132N)
- Instruction Manual (this document)

Note: Batteries are not included and must be purchased separately (3x AA for main unit, 1x AA for remote sensor).

## Product Overview

### Main Unit (BAR206)



The main unit features a large LCD display showing various weather data and time. Below the display are control buttons for settings and functions.

- **LCD Display:** Shows outdoor/indoor temperature, indoor humidity, weather forecast, moon phase, time, and date.
- **MODE Button:** Toggles between display modes and enters setup.
- **LIGHT Button:** Activates the backlight for temporary illumination.

- **MEM Button:** Displays daily high/low temperature and humidity records.
- **UP (▲) / DOWN (▼) Buttons:** Adjust values during setup or toggle display options.
- **Ice Alert LED:** Flashes green when outdoor temperature approaches freezing.

## Wireless Remote Temperature Sensor (THN132N)

The compact wireless sensor transmits outdoor temperature data to the main unit. It is designed for outdoor placement but should be protected from direct weather elements.

- **Temperature Sensor:** Measures ambient outdoor temperature.
- **Channel Switch:** Allows selection of one of three channels (1, 2, or 3) for multi-sensor setups.
- **Reset Button:** Resets the sensor and initiates re-synchronization.

## Setup

### 1. Battery Installation

#### 1. For the Wireless Sensor:

- Open the battery compartment cover.
- Set the channel switch (1, 2, or 3). Ensure this channel matches the one selected on the main unit for outdoor readings.
- Insert 1 AA battery, observing the correct polarity (+ and -).
- Close the battery compartment cover securely.

#### 2. For the Main Unit:

- Open the battery compartment cover on the back.
- Insert 3 AA batteries, observing the correct polarity (+ and -).
- Close the battery compartment cover. The unit will power on and begin searching for the atomic clock signal and the wireless sensor.

### 2. Sensor Placement

Place the wireless sensor outdoors in a location that is sheltered from direct sunlight and precipitation. This ensures accurate temperature readings and prolongs the sensor's lifespan. Avoid placing it near large metal objects, electrical appliances, or sources of heat/cold that could interfere with readings or signal transmission. The maximum transmission range is 98 feet (unobstructed).

### 3. Initial Synchronization

After installing batteries in both units, the main unit will automatically attempt to connect with the wireless sensor. This may take a few minutes. Ensure both units are within range. If the outdoor temperature does not appear, press the [RESET] button on the sensor and then the [MODE] button on the main unit to initiate a new search.

### 4. Time and Unit Settings

The BAR206 automatically synchronizes with the US Atomic Clock signal for accurate time. If manual adjustment is needed or preferred:

1. Press and hold the [MODE] button for 3 seconds to enter setup mode.
2. The first setting to adjust is the Time Zone. Use the [UP] or [DOWN] buttons to select your time zone.

3. Press [MODE] to confirm and move to the next setting (e.g., 12/24 hour format, hour, minute, year, month, day, temperature unit °C/°F).
4. Use [UP] or [DOWN] to adjust values and [MODE] to confirm each setting.
5. Press [MODE] repeatedly or wait 30 seconds for the unit to exit setup mode automatically.

## Operation

### Display Information

- **Outdoor Temperature (OUT TEMP):** Current temperature from the wireless sensor.
- **Indoor Temperature (IN TEMP):** Current temperature measured by the main unit.
- **Indoor Humidity (HUMIDITY):** Current humidity level measured by the main unit.
- **Weather Forecast Icon:** Predicts weather for the next 12-24 hours (Sunny, Partly Cloudy, Cloudy, Rainy, Snowy).
- **Moon Phase:** Displays the current phase of the moon.
- **Atomic Clock Time:** Automatically synchronized time and date.
- **Ice Alert Icon:** Indicates when outdoor temperature is near freezing.

### Button Functions

Button	Function
<b>MODE</b>	Press to cycle through display modes (e.g., time, date). Press and hold to enter setup mode.
<b>LIGHT</b>	Press to activate the display backlight for a few seconds.
<b>MEM</b>	Press to view daily maximum and minimum temperature and humidity records. Press again to clear records.
<b>▲ (UP)</b>	Increases values during setup. Toggles between multiple outdoor sensor channels (if applicable).
<b>▼ (DOWN)</b>	Decreases values during setup.

### Ice Alert

The Ice Alert feature provides an early warning when outdoor temperatures drop to near freezing (typically between 3°C and -2°C or 37.4°F and 28.4°F). The green LED light on the main unit will flash, and an ice crystal icon may appear on the display, indicating potential icy conditions.

### Daily Hi/Lo Memory

The unit automatically records the highest and lowest indoor/outdoor temperatures and indoor humidity for the past 24 hours. Press the [MEM] button to cycle through these records. Press [MEM] again to clear the records and start a new 24-hour cycle.

### Multiple Sensor Channels

The BAR206 main unit can receive data from up to three wireless sensors. If you have additional sensors (sold separately), set each to a different channel (1, 2, or 3). Use the [UP] button on the main unit to cycle through the outdoor temperature readings from each connected sensor.

## Maintenance

### Battery Replacement

When the battery low indicator appears on the display for either the main unit or the sensor, replace the batteries promptly. Follow the battery installation steps outlined in the Setup section. It is recommended to replace all batteries at the same time to ensure consistent performance.

### Cleaning

Wipe the unit with a soft, damp cloth. Do not use abrasive materials or corrosive cleaners, as these may scratch the display or damage the casing. Ensure the unit is dry before re-inserting batteries or operating.

## Troubleshooting

Problem	Possible Cause	Solution
No outdoor temperature reading (---)	Sensor out of range; batteries low/dead; channel mismatch; interference.	Move sensor closer to main unit. Replace sensor batteries. Ensure sensor channel matches main unit. Avoid placing near electronics. Press [RESET] on sensor, then [MODE] on main unit.
Incorrect temperature readings	Sensor exposed to direct sunlight/rain; near heat/cold source.	Relocate sensor to a sheltered, shaded area. Ensure proper ventilation around the sensor.
Time is incorrect or not updating	Weak atomic clock signal; incorrect time zone setting.	Place main unit near a window for better signal reception. Manually set time zone in setup mode.
Display is dim or blank	Main unit batteries low/dead.	Replace all main unit batteries.

## Specifications

Feature	Detail
Brand	Oregon Scientific
Model Number	LWS0702510118001 (BAR206)
Color	White
Power Source (Main Unit)	3 x AA batteries (not included)
Power Source (Remote Sensor)	1 x AA battery (not included)
Connectivity Technology	433 MHz Wireless
Transmission Range	Up to 98 ft (30 m) unobstructed
Outdoor Temperature Range	-4°F to 140°F (-20°C to 60°C)
Indoor Temperature Range	23°F to 122°F (-5°C to 50°C)
Indoor Humidity Range	25% to 95% RH
Temperature Accuracy	±1°C
Dimensions (Main Unit)	5 x 4 x 2 inches (approx.)
Weight (Main Unit)	12.6 ounces (approx.)
Display Type	LCD with Backlight
Features	Weather Forecast Icon, Ice Alert, Atomic Clock/Calendar, Daily Hi/Lo Memory

## Warranty and Support

For warranty information, technical support, or to purchase additional accessories, please visit the official Oregon Scientific website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.