

Explore Scientific WSH-4002

EXPLORE SCIENTIFIC WSH-4002 Weather Station User Manual

Model: WSH-4002

1. INTRODUCTION

Thank you for choosing the EXPLORE SCIENTIFIC WSH-4002 Weather Station. This device provides accurate indoor and outdoor temperature and humidity readings, a radio-controlled clock, and weather forecasts. Please read this manual carefully before operating the device to ensure proper use and to maximize its lifespan.

2. PACKAGE CONTENTS

- EXPLORE SCIENTIFIC WSH-4002 Weather Station Main Unit
- 1 x Wireless Outdoor Sensor
- 2 x AAA Batteries (for main unit)
- 2 x AA Batteries (for outdoor sensor)
- User Manual (this document)

3. PRODUCT FEATURES

- Radio-controlled clock with automatic time synchronization.
- Indoor and outdoor temperature display in °C or °F.
- Indoor and outdoor humidity display.
- 12/24 hour selectable weather forecasts.
- Large, backlit LCD display (15 x 8.5 cm).
- Ice alert function.
- Supports up to 3 wireless outdoor sensors (one included).

4. SAFETY INFORMATION

Please observe the following safety precautions:

- Do not expose the main unit or sensor to extreme temperatures, direct sunlight, or moisture.
- Do not attempt to disassemble or modify the device. This will void the warranty.
- Use only the specified battery types (AAA for main unit, AA for sensor).

- Dispose of used batteries responsibly according to local regulations.
- Keep the device out of reach of children.

5. SETUP

5.1. Battery Installation

Main Unit:

1. Open the battery compartment cover on the back of the main unit.
2. Insert 2 x AAA batteries, observing the correct polarity (+/-).
3. Close the battery compartment cover.

Outdoor Sensor:

1. Open the battery compartment cover on the back of the outdoor sensor.
2. Insert 2 x AA batteries, observing the correct polarity (+/-).
3. Close the battery compartment cover.

Note: It is recommended to insert batteries into the outdoor sensor first, then the main unit, to ensure proper synchronization.

5.2. Sensor Pairing and Placement

Once batteries are installed, the main unit will automatically search for the outdoor sensor. This process may take a few minutes. Ensure the sensor is within range (up to 30 meters in open air) and not obstructed by large metal objects or thick walls.



Image: The Explore Scientific WSH-4002 Weather Station main unit (left) displaying temperature and humidity, alongside its white wireless outdoor sensor (right).

Outdoor Sensor Placement:

- Choose a shaded, dry location to avoid direct sunlight and rain, which can affect temperature readings.
- Ensure good air circulation around the sensor.
- Mount the sensor vertically, away from heat sources or vents.

5.3. Initial Time Synchronization

The weather station will attempt to synchronize its clock with the DCF (Germany) or WWVB (USA) radio signal automatically. This process can take several hours, especially during initial setup. Place the main unit near a window for better reception. Once synchronized, a signal icon will appear on the display.

6. OPERATING INSTRUCTIONS

6.1. Display Overview



Image: The main unit's LCD display showing current time, indoor and outdoor temperature and humidity, and a weather forecast icon (partly cloudy).

The large LCD display shows the following information:

- **Top Section:** Outdoor temperature and humidity, weather forecast icons.
- **Middle Section:** Indoor temperature and humidity.
- **Bottom Section:** Current time, date, and radio control signal indicator.

6.2. Button Functions

The main unit typically has buttons on the back or side for various settings. Common buttons include:

- **MODE/SET:** Press to cycle through display modes (e.g., time, alarm) or hold to enter setting mode.
- **+/UP:** Adjust values up in setting mode, or view max/min records.
- **-/DOWN:** Adjust values down in setting mode, or view max/min records.
- **°C/°F:** Toggle between Celsius and Fahrenheit temperature display.
- **LIGHT/SNOOZE:** Activate backlight (short press), or snooze alarm (when alarm sounds).
- **CHANNEL:** If using multiple outdoor sensors, press to switch between channels.

6.3. Setting Time and Date Manually (if radio control fails)

1. Hold the **MODE/SET** button for approximately 3 seconds until the time display flashes.
2. Use the **+/UP** or **-/DOWN** buttons to adjust the hour.
3. Press **MODE/SET** to confirm and move to the next setting (minutes, year, month, day, 12/24 hour format).
4. Repeat steps 2 and 3 until all settings are configured.
5. Press **MODE/SET** to exit setting mode.

6.4. Temperature Unit Selection

Press the **°C/°F** button to switch between Celsius (°C) and Fahrenheit (°F) temperature units.

6.5. Weather Forecast

The weather station provides a 12-24 hour weather forecast based on atmospheric pressure changes. The icons displayed are:

- Sunny
- Partly Cloudy
- Cloudy
- Rainy
- Snowy

Note: The weather forecast is an estimation and may not always be 100% accurate. It is based on local pressure trends and not on satellite data.

7. MAINTENANCE

- **Cleaning:** Wipe the main unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Always replace all batteries at the same time.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on main unit.	Batteries are dead or incorrectly inserted.	Check battery polarity, replace with new batteries.

Problem	Possible Cause	Solution
Outdoor temperature/humidity not displayed.	Sensor not paired, out of range, or batteries low.	Re-insert batteries in both units, ensure sensor is within range, replace sensor batteries.
Time not synchronizing.	Weak radio signal, interference.	Move main unit closer to a window, away from electronic devices. Allow several hours for synchronization.
Inaccurate temperature readings.	Sensor exposed to direct sunlight or heat sources.	Relocate outdoor sensor to a shaded, well-ventilated area.

9. SPECIFICATIONS

- **Model:** WSH-4002
- **Indoor Temperature Range:** -5°C to 50°C (23°F to 122°F)
- **Outdoor Temperature Range:** -20°C to 60°C (-4°F to 140°F)
- **Humidity Range:** 20% to 95% RH
- **Power (Main Unit):** 2 x AAA 1.5V batteries
- **Power (Outdoor Sensor):** 2 x AA 1.5V batteries
- **Wireless Frequency:** 433 MHz / 868 MHz
- **Wireless Range:** Up to 30 meters (open air)
- **Dimensions (Main Unit):** Approximately 20 x 8.5 x 10 cm
- **Weight:** Approximately 450 g

10. WARRANTY AND SUPPORT

This EXPLORE SCIENTIFIC WSH-4002 Weather Station comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover:

- Damage caused by improper use, accident, abuse, neglect, or unauthorized modification.
- Damage caused by natural disasters (e.g., lightning, flood).
- Normal wear and tear.
- Batteries.

For technical support or warranty claims, please contact Explore Scientific customer service through their official website or your point of purchase. Please have your model number (WSH-4002) and proof of purchase ready.



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Operating instructions 2x AA batteries AAA BEFORE YOU BEGIN We recommend using alkaline WSH

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