Manuals+
Q & A | Deep Search | Upload

EMOS ESW5002

EMOS ESW5002 Wireless Weather Station User Manual

Model: ESW5002

Introduction

Thank you for choosing the EMOS ESW5002 Wireless Weather Station. This device provides real-time indoor and outdoor weather data, including temperature, humidity, air pressure, heat index, comfort index, and a 12-24 hour weather forecast. This manual will guide you through the setup, operation, and maintenance of your new weather station to ensure optimal performance.

Package Contents

Please check the package contents to ensure all items are present:

- 1x Wireless Color Display Main Unit
- 1x Wireless Thermo-Hygro Outdoor Sensor
- 1x Power Adapter for Main Unit
- 1x User Manual

Image: All components included in the EMOS ESW5002 weather station package.

Product Overview

Main Display Unit

The main display unit features a clear color LCD screen that shows all weather data, time, and date. It can be powered by the included AC adapter or backup batteries (not included).

Image: Front view of the EMOS ESW5002 main display unit with labeled sections for outdoor metrics, weather forecast, indoor metrics, pressure, heat index, moon phase, date, and time.

Image: Rear view of the main display unit, highlighting AC power input, backup battery compartment, and various control buttons.

Outdoor Sensor

The wireless outdoor sensor measures external temperature and humidity. It is water-resistant (IPX4) and operates on 2x AA batteries (not included), offering approximately 10 months of battery life.

Image: The water-resistant outdoor sensor with its specifications and battery requirements.

Setup

1. Powering the Main Unit

1. Connect the provided AC power adapter to the main unit and plug it into a power outlet.
2. For backup power, insert 3x AAA batteries (not included) into the battery compartment on the back of the main unit. This ensures continuous operation during power outages.

2. Powering the Outdoor Sensor

1. Open the battery compartment on the outdoor sensor.
2. Insert 2x AA batteries (not included), observing the correct polarity (+/-).
3. Close the battery compartment securely to maintain water resistance.

3. Pairing the Sensor

The main unit and outdoor sensor should automatically pair within a few minutes after both are powered on. If pairing does not occur, press the 'SENSOR' button on the back of the main unit to initiate a manual search.

4. Sensor Placement

Place the outdoor sensor in a shaded area, protected from direct sunlight and rain, to ensure accurate temperature and humidity readings. The sensor has a wireless range of up to 100 meters (unobstructed).

Image: Example placement of the main unit indoors and the outdoor sensor outside for accurate readings.

Image: The weather station supports connecting up to eight additional sensors (sold separately) for monitoring different areas.

Operating Instructions

Display Features

The color display provides a comprehensive overview of current weather conditions and time information:

- **Outdoor Metrics:** Temperature, Humidity, and Alert indicators.
- **24h Weather Forecast:** Graphical representation of upcoming weather.
- **Indoor Metrics:** Temperature, Humidity, and Alert indicators.
- **Pressure:** Current air pressure reading.
- **Heat Index & Moon Phase:** Calculated heat index and current moon phase.
- **Date & Time:** Current date and time.

Button Functions (Rear Panel)

Button	Function
TIME SET	Enter time/date setting mode.
ALARM	Set or view alarm times.
ALERT	Set or view temperature/humidity alerts.
ALARM/SNOOZE	Activate snooze during alarm, or turn off alarm.
CHANNEL/+	Switch outdoor sensor channels or increase value during settings.
MEM/-	View MIN/MAX records or decrease value during settings.
INDEX	Toggle between different display indices (e.g., Heat Index, Dew Point).
HISTORY	View historical data.
SENSOR	Manually search for outdoor sensor signal.
BARO	Switch between absolute and relative air pressure.
°C/°F	Toggle temperature units between Celsius and Fahrenheit.
RESET	Factory reset (use a pointed object).

Setting Time and Date

1. Press and hold the 'TIME SET' button.
2. Use the 'CHANNEL/+' and 'MEM/-' buttons to adjust values.
3. Press 'TIME SET' again to confirm and move to the next setting (e.g., 12/24 hour format, hour, minute, year, month, day).

Customizing Alerts

You can set high and low alerts for indoor and outdoor temperature and humidity.

1. Press the 'ALERT' button to cycle through alert settings.
2. When the desired alert (e.g., Outdoor Temp High) is displayed, press and hold 'ALERT' to enter setting mode.
3. Use 'CHANNEL/+' and 'MEM/-' to adjust the alert value.
4. Press 'ALERT' to confirm and move to the next setting.

Maintenance

- **Cleaning:** Wipe the display unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in the outdoor sensor when the low battery indicator appears on the main unit. Replace backup batteries in the main unit annually or as needed.
- **Sensor Placement:** Periodically check the outdoor sensor's placement to ensure it remains protected from direct elements and maintains optimal signal strength.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No outdoor data displayed.	Sensor not paired or out of range; low sensor battery.	Press 'SENSOR' button to re-pair. Move sensor closer. Replace sensor batteries.
Incorrect temperature/humidity readings.	Sensor exposed to direct sunlight/rain; interference.	Relocate sensor to a shaded, protected area. Ensure no large metal objects or electronics are nearby.
Display is dim or blank.	AC adapter not connected; low backup batteries.	Ensure AC adapter is securely plugged in. Replace backup batteries.
Time/Date is incorrect.	Manual setting required after power loss.	Follow 'Setting Time and Date' instructions.

Specifications

Feature	Detail
Model Number	ESW5002
Dimensions (L x W x H)	21.5 x 15 x 10 cm
Weight	809 grams
Display Type	Color LCD
Power Source (Main Unit)	AC Adapter (included), 3x AAA Batteries (backup, not included)
Power Source (Outdoor Sensor)	2x AA Batteries (not included)
Connectivity Technology	Radio Frequency (433MHz)
Special Features	Customizable Alerts, Weather Forecast, Temperature/Humidity Monitoring, Radio-controlled System, Color Screen
Material	Metal

Warranty and Support

EMOS products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided on the EMOS official website or your purchase documentation. Keep your proof of purchase for warranty claims.