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› ME Radio-Controlled Weather Station with 5-in-1 Sensor, Anemometer, and Rain Gauge User Manual

ME 3760278488418

ME Radio-Controlled Weather Station User Manual

Model: 3760278488418

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ME Radio-Controlled Weather Station. This 5-in-1 wireless system includes an outdoor sensor designed to measure precipitation, wind speed and direction, temperature, and humidity levels. The sensor is pre-assembled and calibrated for straightforward installation. It transmits data via a low-frequency radio signal to the main display unit, with a range of up to 150 meters in open areas.

The weather station offers comprehensive meteorological data, including indoor and outdoor temperatures (Celsius or Fahrenheit), indoor and outdoor humidity with trend indicators, min/max data for various parameters, a barometer with 24-hour atmospheric pressure history, automatic daylight saving time adjustment, and a weather forecast function (sunny, partly sunny, cloudy, rainy, stormy). It also displays moon phases, wind speed (mph or km/h), wind direction (16 positions), precipitation measurements (mm or inch for 1 hour, 24 hours, or total), dew point, feels like temperature, and heat index. Additional features include a low battery indicator for both the station and the outdoor sensor, an alarm with snooze function, and an orange LED backlight.



Figure 1.1: ME Radio-Controlled Weather Station components, including the main display unit and the 5-in-1 outdoor sensor.

2. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x Weather Station Display Unit
- 1 x 5-in-1 Outdoor Sensor (Anemometer/Rain Gauge)
- 1 x Mast Section
- 1 x Clamping Jaw
- Fixing Screws and Nuts
- 1 x Multi-language User Manual

3. SETUP

3.1 Installing Batteries

The weather station display unit and the outdoor sensor both require batteries for operation. Batteries are included with the product.

1. **For the Outdoor Sensor:** Locate the battery compartment on the outdoor sensor. Insert the required batteries, ensuring correct polarity. Close the compartment securely.
2. **For the Display Unit:** Locate the battery compartment on the back of the display unit. Insert the required batteries (3x AA), ensuring correct polarity. Close the compartment securely.

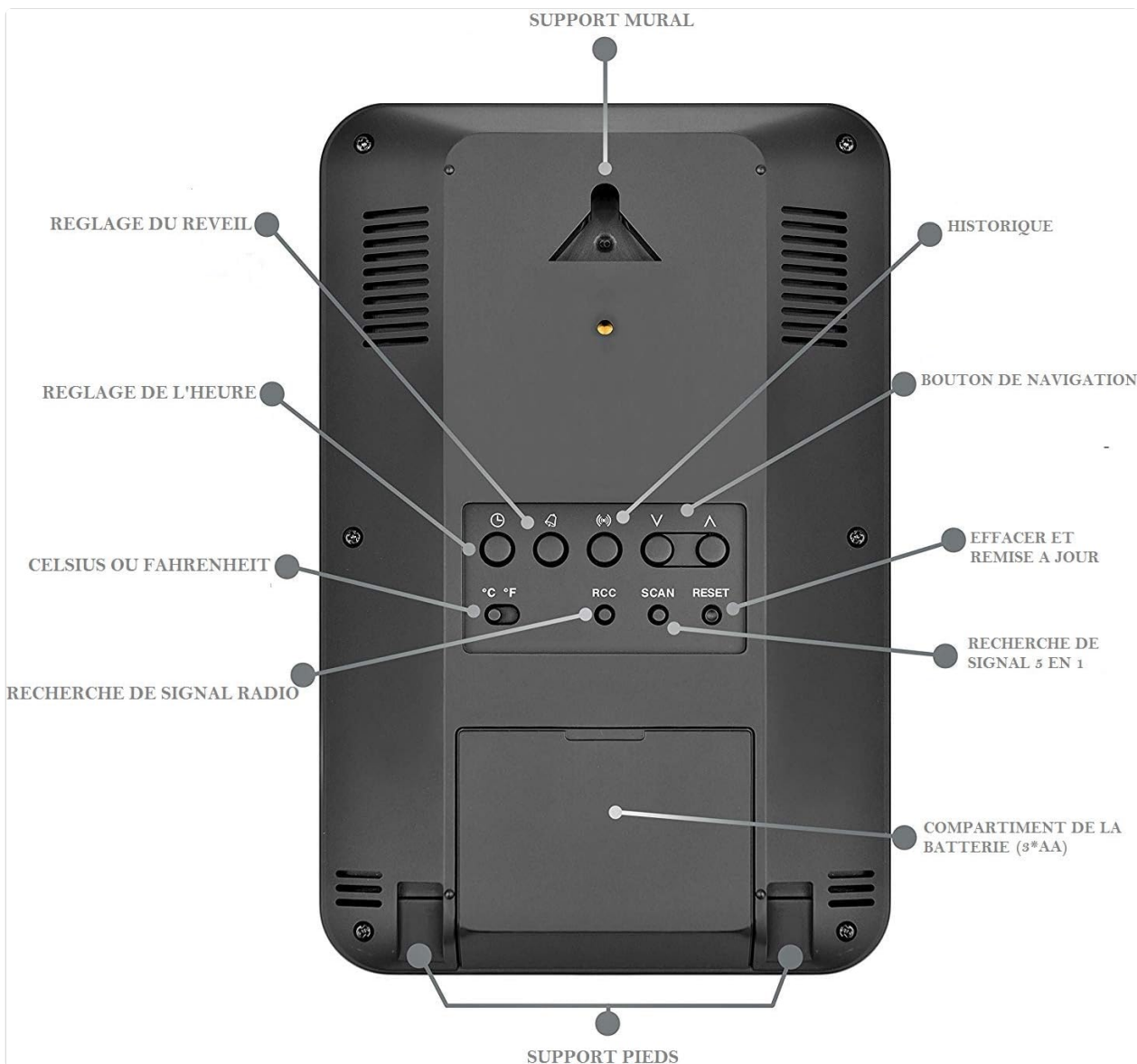


Figure 3.1: Rear view of the display unit, highlighting the battery compartment and various control buttons for settings like time, alarm, and unit selection.

3.2 Mounting the Outdoor Sensor

The 5-in-1 outdoor sensor should be mounted in an open area to ensure accurate readings for wind, rain, temperature, and humidity. Avoid obstructions like buildings, trees, or fences.

1. Assemble the mast section with the clamping jaw.
2. Attach the 5-in-1 sensor to the mast using the provided screws and nuts. Ensure it is securely fastened.
3. Mount the assembled sensor in your desired outdoor location. The sensor can be mounted on a pole or a wall using appropriate hardware. Ensure the rain gauge is level and the wind vane/anemometer can rotate freely.



Figure 3.2: The 5-in-1 outdoor sensor correctly installed on a pole, ensuring optimal exposure for accurate weather data collection.

3.3 Initial Pairing and Synchronization

After installing batteries in both units, the display unit will automatically attempt to connect with the outdoor sensor. This process may take a few minutes.

- Place the display unit and the outdoor sensor relatively close to each other during the initial setup.
- Once connected, the outdoor readings will appear on the display.

- If connection fails, press the '5-in-1 Sensor Signal Search' button (labeled 'SCAN' on the back of the display unit) to manually initiate a search.

4. OPERATING INSTRUCTIONS

4.1 Display Unit Overview

The main display unit provides a comprehensive overview of current and historical weather data. Refer to the diagram below for key display areas and buttons.



Figure 4.1: Front view of the display unit with annotations for Indoor Temperature, Outdoor Temperature, Indoor Humidity, Outdoor Humidity, Weather Forecast, Wind Direction, Wind Speed, Wind Scale, Daily Precipitation, Precipitation History (Bar Chart), Moon Phase, Date, Radio-Controlled Alarm, Indoor Climate Indicator, 5-in-1 Sensor Signal Strength, and Wind Chill.

4.2 Basic Settings

- **Time and Date:** The station automatically synchronizes with a radio-controlled time signal. Manual adjustment may be possible via the 'Time Setting' button on the back if needed.
- **Temperature Units:** Press the '°C / °F' button on the back of the unit to switch between Celsius and Fahrenheit.
- **Wind Speed Units:** Navigate through the display modes using the 'DISPLAY' button on the front to find wind speed, then use the navigation buttons on the back to select between mph or km/h.
- **Precipitation Units:** Similar to wind speed, navigate to precipitation display and select between mm or inch.

- **Language:** The day display supports 5 languages: French, English, German, Italian, and Spanish. This setting is usually found within the time/date setup menu.

4.3 Alarm and Backlight

- **Alarm Function:** Use the 'Alarm Setting' button on the back to set the alarm time. The snooze function can be activated by pressing a designated button (often 'SNOOZE' or a main button) when the alarm sounds.
- **Backlight:** The station features an orange LED backlight for improved visibility in low light conditions. This can typically be activated by pressing a button on the display unit.

4.4 History and Min/Max Data

The display unit stores historical data and records minimum and maximum values for various measurements.

- **Min/Max:** Press the 'MAX/MIN' button on the front to cycle through the recorded maximum and minimum values for temperature, humidity, etc.
- **History:** The 'HISTORY' button on the front allows you to view past data, such as 24-hour atmospheric pressure history or precipitation history.

5. MAINTENANCE

5.1 Battery Replacement

When the low battery indicator appears on the display unit for either the station or the outdoor sensor, it is time to replace the batteries. Always replace all batteries in a unit at the same time with new ones of the same type.

5.2 Cleaning the Sensor

Periodically inspect and clean the outdoor sensor to ensure accurate readings.

- **Rain Gauge:** Clear any debris (leaves, insects) from the rain collector funnel.
- **Anemometer/Wind Vane:** Ensure the wind cups and wind vane rotate freely. Remove any obstructions.
- **General Cleaning:** Wipe down the sensor housing with a damp cloth. Do not use abrasive cleaners or solvents.

6. TROUBLESHOOTING

If you encounter issues with your weather station, please refer to the following common problems and solutions:

- **No Outdoor Data Displayed:**
 - Check if the outdoor sensor batteries are correctly installed and not depleted.
 - Ensure the outdoor sensor is within the 150-meter range of the display unit and there are no major obstructions.
 - Press the '5-in-1 Sensor Signal Search' button ('SCAN') on the back of the display unit to re-establish connection.
 - Try moving the display unit closer to the outdoor sensor temporarily to rule out range issues.
- **Inaccurate Readings:**
 - **Temperature/Humidity:** Ensure the outdoor sensor is not exposed to direct sunlight for prolonged periods (which can artificially raise temperature readings) and is in a well-ventilated area.

- **Wind:** Verify that the anemometer cups and wind vane are free from obstructions and rotate smoothly.
- **Rain:** Check the rain collector for debris. Ensure the sensor is mounted level.
- **Display Unit Not Responding:**
 - Replace the display unit batteries.
 - Perform a reset by pressing the 'RESET' button on the back of the unit (this may clear all stored data).

7. SPECIFICATIONS

Feature	Detail
Model Number	3760278488418
Brand	ME
Product Type	Radio-Controlled Weather Station with 5-in-1 Sensor
Connectivity Technology	Radio Frequency
Sensor Technology	Radio Frequency
Power Source	Battery Powered (Batteries Included)
Materials	Acrylonitrile Butadiene Styrene (ABS), Metal, Plastic, Polycarbonate (PC)
Color	Black and White
Temperature Precision	1 °C
Outdoor Sensor Range	Up to 150 meters (open field)
Display Languages	French, English, German, Italian, Spanish
Dimensions (Packaging)	440 x 147 x 381 mm
Weight (Packaging)	1.92 kg

8. WARRANTY AND SUPPORT

Information regarding product warranty and customer support is typically provided by the manufacturer or seller at the time of purchase. Please refer to your purchase documentation or the manufacturer's official website for details on warranty coverage, return policies, and technical assistance.