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› La Crosse Technology WS6860 Weather Station with Radio-Controlled Anemometer User Manual

La Crosse Technology WS6860

La Crosse Technology WS6860 Weather Station with Radio-Controlled Anemometer

User Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your La Crosse Technology WS6860 Weather Station. This device offers comprehensive weather monitoring, including radio-controlled time and date, indoor and outdoor temperature and humidity, wind speed, and weather forecasting.

For optimal performance, please read this manual thoroughly before using the product and retain it for future reference.

2. PACKAGE CONTENTS

Carefully unpack all components and ensure everything listed below is present and in good condition. If any items are missing or damaged, please contact customer support.

- La Crosse Technology WS6860 Main Display Unit
- Outdoor Anemometer Sensor (with wind cups)
- Instruction Manual (this document)



Image: The La Crosse Technology WS6860 Weather Station main display unit (left) and the outdoor anemometer sensor (right). The display unit shows various weather parameters, while the anemometer measures wind speed.

3. SETUP

3.1. Battery Installation

Note: Batteries are not included with this product. You will need appropriate batteries for both the main unit and the outdoor sensor.

1. **Main Display Unit:** Open the battery compartment on the back of the main display unit. Insert the required batteries (e.g., AA or AAA, refer to the unit's markings) according to the polarity indicators (+/-). Close the compartment.
2. **Outdoor Anemometer Sensor:** Open the battery compartment on the outdoor sensor. Insert the required batteries (e.g., AA or AAA, refer to the sensor's markings) according to the polarity indicators. Close the compartment securely to ensure weather resistance.

3.2. Sensor Placement

Proper placement of the outdoor anemometer sensor is crucial for accurate readings.

- **Location:** Mount the anemometer in an open area, away from obstructions like buildings, trees, or other structures that could block wind flow. A rooftop or a tall pole is often ideal.
- **Height:** For best accuracy, the sensor should be mounted at least 2 meters (6.5 feet) above the ground and higher than any surrounding obstacles.
- **Orientation:** Ensure the anemometer is level and securely fastened to prevent movement in strong winds.
- **Range:** The sensor transmits data wirelessly at 433 MHz. Ensure it is within range of the main display unit (typically up to 100 meters / 330 feet in open air), minimizing obstacles like thick walls or metal structures between them.

3.3. Synchronization

Once batteries are installed in both units and the sensor is placed, the main display unit will automatically attempt to connect with the outdoor sensor. This may take a few minutes. Look for a signal strength indicator on the main display to confirm successful connection. If no connection is established, try repositioning the sensor or resetting both units by removing and reinserting batteries.

4. OPERATING INSTRUCTIONS

4.1. Display Overview

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

- **Time and Date:** Radio-controlled for accuracy.
- **Indoor Temperature and Humidity:** Current readings from the main unit's internal sensors.
- **Outdoor Temperature and Humidity:** Current readings from the outdoor sensor.
- **Wind Speed:** Displays current wind speed, peak wind speed, and historical data. A graphical representation may also be present.
- **Weather Forecast:** Icons indicating predicted weather conditions (e.g., sunny, cloudy, rainy).
- **Temperature Trends:** Indicators showing if temperature is rising, falling, or stable.

4.2. Setting Time and Date

The unit's time and date are radio-controlled. Upon initial setup or after a battery change, the unit will search for the atomic clock signal. This process can take several minutes or up to 24 hours depending on signal strength. Ensure the unit is placed away from electronic interference for best reception. Manual adjustment options may be available; refer to the specific buttons on your device (e.g., MODE, SET) for details.

4.3. Understanding Wind Data

Your weather station provides detailed wind information:

- **Current Wind Speed:** The real-time wind speed measured by the anemometer.
- **Peak Wind Speed:** The highest wind speed recorded over a specific period (e.g., last hour, 24 hours, 7 days, 30 days, or year).
- **Wind Speed History:** Allows you to review past wind speed data.

Units for wind speed can typically be switched between km/h, mph, m/s, or knots. Consult your device's buttons for unit selection.

4.4. Temperature and Humidity Alerts

The weather station may feature programmable alerts for indoor temperature and humidity. You can set high and low thresholds. If the readings exceed or fall below these thresholds, an audible alarm or visual indicator will activate. Refer to your device's specific button functions (e.g., ALERT, SET) to configure these alerts.

5. MAINTENANCE

5.1. Battery Replacement

Replace batteries in both the main display unit and the outdoor sensor when the low battery indicator appears on the display. It is recommended to replace all batteries at the same time to ensure consistent performance. Always use fresh, high-quality batteries.

5.2. Cleaning

- **Main Display Unit:** Wipe the display and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the plastic.
- **Outdoor Sensor:** Periodically check the anemometer cups for any debris (leaves, insects) that might impede their rotation. Gently clean if necessary. Ensure the sensor's vents are clear.

5.3. Sensor Care

Inspect the outdoor sensor periodically for any signs of wear, damage, or loose mounting. Ensure it remains securely fastened and level. In extreme weather conditions (e.g., heavy snow, ice storms), consider temporarily bringing the sensor indoors if possible, or ensure it is clear of ice buildup that could prevent accurate readings or cause damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on main unit	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh batteries.
No outdoor sensor data (dashes or '---')	Sensor out of range, dead batteries, or interference.	Replace sensor batteries. Move sensor closer to main unit. Reduce interference sources. Reset both units.
Inaccurate temperature/humidity readings	Sensor exposed to direct sunlight, heat sources, or moisture.	Relocate sensor to a shaded, well-ventilated area. Ensure it's protected from direct rain.
Inaccurate wind speed readings	Anemometer obstructed or not rotating freely.	Check for debris in wind cups. Ensure sensor is mounted in an open area.
Time/Date not setting automatically	Poor atomic clock signal reception.	Move main unit near a window, away from electronics. Allow up to 24 hours for signal acquisition.

7. SPECIFICATIONS

- **Model:** WS6860BLA-SIL
- **Brand:** La Crosse Technology
- **Power Source:** DC/AC (for main unit, batteries for sensor)
- **Material:** Plastic
- **Connectivity Technology:** 433 MHz Radio Frequency
- **Frequency:** 433 MHz
- **Display Type:** Digital Display
- **Item Weight:** Approximately 2.2 pounds (1 kg)
- **Usage:** Personal and Commercial

8. WARRANTY

This product is sold without an explicit warranty. Please refer to your retailer's return policy for any issues upon purchase.

9. SUPPORT

For further assistance or if you encounter issues not covered in this manual, please visit the official La Crosse Technology website or contact their customer support department. Keep your product model number (WS6860BLA-SIL) handy when seeking support.

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