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› Sainlogic Weather Station Wireless Indoor Outdoor Sensor User Manual

## sainlogic WS-089

# Sainlogic Weather Station Wireless Indoor Outdoor Sensor User Manual

Model: WS-089

## 1. INTRODUCTION

Thank you for choosing the Sainlogic Wireless Weather Station. This manual provides detailed instructions for setting up, operating, and maintaining your weather station to ensure accurate and reliable weather data.

The Sainlogic Weather Station is designed to provide comprehensive meteorological data, including indoor/outdoor temperature, indoor/outdoor humidity, wind speed and direction, rainfall, dew point, air pressure, moon phase, and time/calendar functions. Its user-friendly design and clear LCD color display make it an ideal tool for monitoring local weather conditions.



Image: The Sainlogic Wireless Weather Station, showing the main display console and the integrated outdoor sensor unit.

## 2. WHAT'S IN THE BOX

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

- Display Console
- Outdoor Sensor (integrated unit)
- Power Adapter for Display Console
- Mounting Pole (1)
- Stand Mount with pole insert
- Pole Mounting Nuts (M3) / Bolts (Ø3)
- Mounting Bracket Back Plate (pole mount)
- Pole Mount Nuts (M5) / Bolts (Ø5)
- Instruction Manual (this document)
- *Note: 2 AA batteries required for the outdoor sensor (not included).*

Image: A visual representation of all components included in the Sainlogic Weather Station package.

### 3. COMPONENTS OVERVIEW

#### 3.1. Outdoor Sensor Unit

The outdoor sensor is an integrated 6-in-1 unit designed to measure various outdoor weather parameters. It includes:

- **Wind Vane:** Measures wind direction.
- **Solar Panel:** Powers the sensor and charges internal capacitors for night operation.
- **Rain Collector:** Measures rainfall.
- **Level Indicator:** Ensures proper horizontal installation.
- **Wind-Cups:** Measure wind speed.
- **Thermo-hygrometer Radiation Shield:** Protects the temperature and humidity sensors from direct sunlight and rain, ensuring accurate readings.



Image: Detailed diagram of the outdoor sensor, highlighting its various components.

### 3.2. Display Console

The indoor display console features a large, clear LCD color screen that presents all collected weather data. It includes:

- **LCD Color Display:** Shows indoor/outdoor temperature and humidity, wind speed and direction, rainfall, dew point, air pressure, moon phase, time, and calendar.
- **Control Buttons:** For setting time, date, alarms, and adjusting display options.
- **Adjustable Backlight:** 3-level brightness for optimal viewing in various lighting conditions.
- **Rotatable Back Bracket:** Allows for easy adjustment of viewing angle.
- **Power Input:** For connecting the power adapter.



Image: The large color LCD display of the Sainlogic weather station console.

# 6 IN 1 OUTDOOR SENSOR



Image: Profile view of the display console, indicating dimensions and button locations.

## 4. SETUP GUIDE

Follow these steps to set up your Sainlogic Weather Station:

### 4.1. Outdoor Sensor Installation

- 1. Insert Batteries:** Open the battery compartment on the outdoor sensor unit and insert 2 AA batteries (not included), observing correct polarity. Close the compartment securely.
- 2. Assemble Mounting Pole:** Attach the mounting pole to the outdoor sensor unit using the provided screws and nuts. Ensure it is firmly secured.
- 3. Choose Location:** Select an outdoor location that is open and free from obstructions to ensure accurate readings for wind, rain, and temperature. Ideally, the sensor should be mounted at least 5 feet (1.5 meters) above the ground. Avoid placing it near large metal objects, heat sources, or areas with strong electromagnetic interference.
- 4. Mount the Sensor:** Use the mounting bracket and hardware to securely attach the sensor unit to a stable surface, such as a fence post, wall, or dedicated pole. Use the built-in level indicator to ensure the sensor is perfectly horizontal for accurate rain and wind measurements.

# ACCURATE MEASUREMENTS, REASSURING RELIABILITY



**Open Distance Between Sensor and Display Up to 330ft (100m).**

*Image: Examples of suitable outdoor sensor placement for optimal performance.*

## 4.2. Display Console Setup

1. **Power On:** Connect the power adapter to the display console and plug it into a wall outlet. The console will power on and begin searching for the outdoor sensor.
2. **Sensor Pairing:** The display console will automatically attempt to connect with the outdoor sensor. This process may take a few minutes. Once connected, outdoor temperature, humidity, wind, and rain data will appear on the display. If connection fails, ensure the sensor batteries are fresh and the units are within range (up to 328 feet / 100 meters in open field).
3. **Initial Settings:**
  - **Time and Date:** Use the control buttons to set the current time, date, and time zone.
  - **Units:** Select your preferred units for temperature (°F/°C), wind speed (mph/km/h/m/s/knots), rainfall (inches/mm), and pressure (inHg/hPa).
  - **Dew Point:** Note that dew point may require manual setting or calibration as per the user manual.

## 5. OPERATING YOUR WEATHER STATION

### 5.1. Reading the Display

The LCD color display provides a wealth of information at a glance. Key areas include:

- **Indoor/Outdoor Temperature & Humidity:** Current readings for both environments.
- **Wind Data:** Current wind speed (average and gust) and direction (compass rose).
- **Rainfall:** Total rainfall over various periods (e.g., 1 hour, 24 hours, total).
- **Air Pressure:** Current barometric pressure.
- **Weather Forecast:** Graphical icons indicating predicted weather conditions (sunny, cloudy, rainy, etc.).
- **Moon Phase:** Displays the current phase of the moon.
- **Time & Date:** Current time, day of the week, and date.



Image: The 10-in-1 display showing various weather parameters.

### 5.2. Adjustable Brightness

The display console features a 3-level adjustable backlight. Use the dedicated button (often labeled

"SNOOZE/LIGHT") to cycle through brightness levels (e.g., 100%, 80%, 60%). It is recommended to keep the power adapter plugged in for continuous backlight operation and to extend battery life.

## 3-LEVEL BRIGHTNESS FOR YOUR NEED



Image: Visual representation of the 3-level adjustable brightness feature.

### 5.3. Alarm and Calendar Functions

The display console also includes an alarm clock and calendar function. Refer to the detailed user manual (PDF) for specific instructions on setting alarms and navigating calendar views.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your weather station.

### 6.1. Cleaning

- **Display Console:** Wipe the screen and casing with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Outdoor Sensor:** Periodically check the rain collector for debris (leaves, insects) and clean as necessary. Ensure the wind cups and wind vane spin freely. Gently wipe the solar panel to maintain

charging efficiency.

## 6.2. Battery Replacement

Replace the AA batteries in the outdoor sensor unit annually, or when the low battery indicator appears on the display console, to ensure continuous operation and accurate data transmission.

## 6.3. Calibration

The weather station is factory calibrated. However, minor adjustments for temperature and humidity may be possible through the console settings if you have a known accurate reference. Refer to the full user manual for detailed calibration procedures if available.

# 7. TROUBLESHOOTING

If you encounter issues with your Sainlogic Weather Station, try the following solutions:

Problem	Possible Cause / Solution
No outdoor data displayed.	<ol style="list-style-type: none"><li>1. Ensure outdoor sensor batteries are fresh and correctly inserted.</li><li>2. Check if the outdoor sensor and display console are within wireless range (max 328 ft / 100m in open field).</li><li>3. Reduce interference by moving the console away from other electronic devices.</li><li>4. Re-pair the sensor and console (refer to manual for specific pairing steps).</li></ol>
Inaccurate temperature/humidity readings.	<ol style="list-style-type: none"><li>1. Ensure outdoor sensor is not in direct sunlight or near heat sources.</li><li>2. Verify the radiation shield is clean and intact.</li><li>3. Allow time for readings to stabilize after setup or significant weather changes.</li></ol>
Wind speed/direction or rainfall readings are incorrect.	<ol style="list-style-type: none"><li>1. Check for obstructions around the wind cups, wind vane, or rain collector.</li><li>2. Ensure the outdoor sensor is mounted level.</li><li>3. Clean the rain collector funnel and tipping bucket mechanism.</li></ol>
Display is dim or blank.	<ol style="list-style-type: none"><li>1. Ensure the power adapter is securely connected and plugged into a working outlet.</li><li>2. Adjust the backlight brightness using the SNOOZE/LIGHT button.</li></ol>

# 8. SPECIFICATIONS

Detailed technical specifications for the Sainlogic Weather Station (Model: WS-089):

## 8.1. General

- **Model Number:** WS-089
- **Product Dimensions (Console):** 0.79 x 7.56 x 4.76 inches (192 x 121 mm)
- **Item Weight:** 4.48 Pounds
- **Power Source:** Power Adapter (Console), 2 AA Batteries (Outdoor Sensor - not included)
- **Connectivity Technology:** Wireless (No WiFi)
- **Material:** Acrylonitrile Butadiene Styrene (ABS)
- **Wireless Transmission Range:** Up to 328 feet (100 meters) in open field

## 8.2. Measurement Specifications

Parameter	Range	Accuracy	Resolution
Indoor Temperature	0 to 60°C (32 to 140°F)	± 1°F (± 2°C)	0.1°C(°F)
Outdoor Temperature	-40 to 60°C (-40 to 140°F)	± 1°F (± 2°C)	0.1°C(°F)
Indoor Humidity	10 to 99%	± 5% (guaranteed between 20 to 90%)	1 %
Outdoor Humidity	10 to 99%	± 5% (guaranteed between 20 to 90%)	1 %
Rain	0 to 396 inches	<0.6in: ±0.4in, 0.6in to 396in: ±7%, >39.4in: ±0.04in	<39.4in: 0.012in, >39.4in: 0.04in
Wind Direction	0 - 360°	±10° (8 point compass)	±1° (8 point compass)
Wind Speed	0 to 112 mph	4.5mph - 22.4mph: +6.7mph, 22.4mph - 112mph: +10% (whichever is greater)	0.1 mph
Barometric Pressure	8.85 to 32.50 inHg	±0.08 inHg	0.1 hPa

**10 in 1 weather station**  
Control the elements at your fingertips

Stay informed about weather conditions with just a glance at the easy-to-read color LCD display.

Image: Comprehensive table of measurement specifications.

## 9. WARRANTY AND SUPPORT

Sainlogic products are designed for durability and performance. While specific warranty details are not provided in this manual, Sainlogic is committed to customer satisfaction.

If you encounter any problems with your weather station, require technical assistance, or have questions regarding its operation, please do not hesitate to contact Sainlogic customer support. Contact information can typically be found on the product packaging, the official Sainlogic website, or through your point of purchase.

For additional information and resources, you may also refer to the official User Guide PDF available online:

[Sainlogic Weather Station User Guide \(PDF\)](#)