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Sainlogic SA8

Sainlogic Home Weather Station SA8 Instruction Manual

Model: SA8

1. INTRODUCTION

The Sainlogic Home Weather Station SA8 is a professional wireless weather monitoring system designed to provide accurate and comprehensive weather data for your home or garden. This station features a large, easy-to-read 7.5-inch color display that shows indoor and outdoor temperature, humidity, wind speed and direction, rainfall, barometric pressure, moon phases, and a weather forecast icon. Its wireless outdoor sensor transmits data reliably, ensuring you stay informed about local weather conditions.

2. PACKAGE CONTENTS

Please verify that all components are present and in good condition:

- 1x Display Console
- 1x Integrated Outdoor Transmitter (Outdoor Sensor)
- 1x Power Adapter
- 1x User Manual
- 1x Foot Mounting (with pole insert)
- 1x Mounting Bracket Back Plate (polemount)
- 1x Mounting Pole
- 2x Pole mounting nuts (M3) / bolts (D3)
- 4x Pole mounting nuts (M5) / bolts (D5)
- 4x Tapping screws

3. SETUP

3.1 Battery Installation

Before installation, ensure you have the required batteries (not included).

- **Outdoor Sensor:** Requires 3x AA batteries.
- **Display Console:** Requires 3x AAA batteries (for backup power). The console primarily operates via the included power adapter.

Insert batteries into both the outdoor sensor and the display console, observing correct polarity.

3.2 Outdoor Sensor Mounting

The outdoor sensor can be mounted in various ways to suit your location. Choose a location that is open and free from obstructions to ensure accurate readings for wind, rain, and temperature. Ensure the rain gauge is level for precise rainfall measurement.



Image: Various mounting options for the outdoor sensor, illustrating how it can be attached to a pole or flat surface.

Mounting options include:

- **Mount on top:** Directly attach to a flat surface.
- **Mount on pole (top):** Attach to the top of a pole using the provided bracket.
- **Mount on side:** Attach to a vertical surface.
- **Mount on pole (side):** Attach to the side of a pole using the provided bracket.

Use the included mounting pole, nuts, bolts, and tapping screws as appropriate for your chosen installation method. Ensure the sensor is securely fastened to withstand wind and other weather conditions.

3.3 Display Console Power-Up and Synchronization

Connect the power adapter to the display console and plug it into an electrical outlet. The console will power on and begin searching for the outdoor sensor. Ensure the outdoor sensor is within range for successful wireless transmission. Synchronization typically occurs automatically within a few minutes.

4. OPERATION

4.1 Display Overview

The 7.5-inch high-contrast color screen provides a clear and comprehensive view of all weather data. The display is organized to show various parameters at a glance.



Image: Detailed view of the display console, highlighting different weather data sections.

Key information displayed includes:

- **Indoor Temperature & Humidity:** Current conditions inside your home.
- **Outdoor Temperature & Humidity:** Current conditions measured by the outdoor sensor.
- **Wind Speed & Direction:** Current wind speed, average wind speed, wind gust, and a compass indicating wind

direction.

- **Rainfall:** Daily, weekly, monthly, and cumulative rainfall data.
- **Barometric Pressure:** Current atmospheric pressure.
- **Weather Icon:** Forecast based on barometric pressure changes.
- **Moon Phase:** Current lunar phase.
- **Date & Time:** Current date and time.
- **Dew Point & Feels Like:** Additional calculated weather metrics.

4.2 Backlight Adjustment

The display console features a manual 3-level backlight adjustment to ensure clear visibility in various lighting conditions.



Image: Illustration of the 3-level adjustable backlight feature.

To adjust the backlight, press the **LIGHT/SNOOZE** button located on the top of the console. Each press cycles through the brightness levels (100%, 60%, 20%) or turns the backlight off.

4.3 Button Functions

The display console has several buttons for setting and viewing data:

- **SET:** Enters setup mode or confirms settings.
- **TEMP:** Cycles through temperature display modes or units.
- **RAIN:** Displays different rainfall data (e.g., hourly, daily, total).
- **WIND (+):** Displays wind data or increases values in setting mode.
- **PRESSURE (-):** Displays pressure data or decreases values in setting mode.
- **ALARM:** Sets or activates alarms.
- **MAX/MIN:** Views maximum and minimum recorded values.
- **LIGHT/SNOOZE:** Adjusts backlight brightness or silences alarms.

5. CALIBRATION

For optimal accuracy, you may need to calibrate certain sensors. This process allows you to adjust the readings to match a known reference or local conditions.

5.1 Temperature Calibration

1. In normal mode, press and hold the **SET** and **CHANNEL/+** buttons simultaneously for five seconds to enter temperature calibration mode. The indoor temperature will flash.
2. Press **CHANNEL/+** or **MAX/MIN/-** to increase or decrease the temperature reading in 0.1 increments. Hold the button for three seconds for rapid adjustment.
3. Press the **ALARM** button to reset the current value.
4. Press the **SET** button to move to outdoor temperature calibration.
5. To exit calibration, press the **SNOOZE/LIGHT** button. If no operation is performed, the mode will exit after 30 seconds.

5.2 Humidity Calibration

1. In normal mode, press and hold the **SET** and **MAX/MIN/-** buttons simultaneously for five seconds to enter humidity calibration mode.
2. Follow the same adjustment and exit steps as for temperature calibration.

5.3 Pressure, Wind, Rain, and Sunlight Calibration

1. In normal mode, press and hold the **SET** and **ALARM** buttons simultaneously for five seconds to enter this calibration mode. The letters "CAL" will appear.
2. Press the **SET** button repeatedly to cycle through the sensors (Absolute Pressure, Relative Pressure, Wind Speed, Rainfall, Sunlight).
3. **Absolute Pressure Calibration:** When "ABS" is displayed and the absolute pressure value flashes, use **CHANNEL/+** or **MAX/MIN/-** to adjust the value (default 0.00 inHg). Press **ALARM** to reset.
4. **Relative Pressure Calibration:** After absolute pressure, press **SET** again. When "REL" is displayed and the relative pressure value flashes, adjust as above (default 0.00 inHg).
5. **Wind Speed Calibration:** After pressure, press **SET** again. The wind speed value will flash (default 1.00). Adjust the calibration factor from 0.75 to 1.25 using **CHANNEL/+** or **MAX/MIN/-**. Calibration speed = factor x measured speed.
6. **Rainfall Calibration:** After wind speed, press **SET** again. The rainfall value will flash (default 1.00). Adjust the calibration factor from 0.75 to 1.25 using **CHANNEL/+** or **MAX/MIN/-**. Calibration rain = factor x measured rain.
7. **Sunlight Calibration:** After rainfall, press **SET** again. The sunlight value will flash (default 1.00). Adjust the calibration factor from 0.75 to 1.25 using **CHANNEL/+** or **MAX/MIN/-**. Calibration sunlight = factor x measured sunlight.
8. To exit calibration, press the **SNOOZE/LIGHT** button. If no operation is performed, the mode will exit after 30 seconds.

6. TROUBLESHOOTING

If you encounter issues with your weather station, refer to the following common troubleshooting steps:

- **No Display on Console:** Ensure the power adapter is securely connected and plugged into a working outlet. Check if backup batteries are installed correctly and have sufficient charge.
- **No Outdoor Sensor Data:** Verify that the outdoor sensor batteries are correctly installed and not depleted. Ensure the sensor is within the wireless transmission range of the display console and there are no major obstructions. Try re-synchronizing the sensor by removing and reinserting its batteries, then powering on the console.
- **Inaccurate Readings:**
 - **Temperature/Humidity:** Ensure the outdoor sensor is not in direct sunlight or near heat sources, which can skew readings. Allow time for the sensor to acclimate to its environment. Consider performing a calibration as described in Section 5.
 - **Rainfall:** Check that the rain gauge is level and free from debris (leaves, dirt) that could block the tipping bucket mechanism.
 - **Wind Speed/Direction:** Ensure the wind cups and wind vane rotate freely and are not obstructed. The sensor should be mounted in an open area. Note that the wind direction sensor is fixed relative to its mounting, so proper orientation during installation is crucial.
 - **Barometric Pressure:** If readings seem incorrect, perform a calibration as described in Section 5.
- **Intermittent Signal Loss:** This can be caused by distance, obstacles (thick walls, metal structures), or interference from other electronic devices. Try repositioning the outdoor sensor or the display console to improve signal strength.

7. SPECIFICATIONS

Feature	Specification
Model Number	SA8
Brand	Sainlogic
Style	Professional
Display Type	LCD
Product Dimensions	1"D x 6.7"W x 5.2"H (Display Console)
Item Weight	2.3 Pounds
Material	Acrylonitrile Butadiene Styrene (ABS)
Power Source	Battery Powered (Outdoor Sensor), Power Adapter (Display Console)
Batteries Required	3 AA (Outdoor Sensor), 3 AAA (Display Console backup)
Connectivity Technology	Radio Frequency
Temperature Range (Indoor)	0°C - 60°C (32°F - 140°F)
Temperature Range (Outdoor)	-40°C - 60°C (-40°F - 140°F)
Humidity Range	10% - 99%

Feature	Specification
Barometric Pressure Range	300 - 1100 hPa
Rainfall Accuracy	±1mm (under 15mm), ±7% (15-9999mm)
Special Features	Adjustable Brightness, Clock, Customizable Alert, Large Display, Wireless

8. WARRANTY AND SUPPORT

Sainlogic is committed to providing quality products and customer satisfaction. Your weather station comes with standard support and return services.

8.1 Return Policy

This product is eligible for Amazon's standard 30-day return service, allowing for refunds or replacements within 30 days of purchase.

8.2 Customer Support

For any questions, technical assistance, or support needs, please contact Sainlogic customer service through the following channels:

Wireless Stable Transmission



Image: Sainlogic U.S. Localized After-Sales Support contact details.

- **By Phone:** U.S. local phone support is available Monday through Friday, 10:00 AM to 6:00 PM (Eastern Time).
- **By Email:** Expect a reply within 24 hours on weekdays and within 48 hours on weekends.
- **Official Website:** Visit the Sainlogic official website for additional guides and support resources.