Sainlogic SA6

Sainlogic SA6 Professional Weather Station User Manual

Model: SA6 | Brand: Sainlogic

INTRODUCTION

Thank you for choosing the Sainlogic SA6 Professional Weather Station. This manual provides detailed instructions for the setup, operation, and maintenance of your new weather station. The SA6 is designed to provide accurate and comprehensive weather data, including temperature, humidity, wind speed and direction, rainfall, and atmospheric pressure, all displayed on a clear 6.5-inch HD color LCD.

WHAT'S IN THE BOX

- Console (Display Unit)
- External Sensor Array
- Power Adapter
- User Manual (this document)
- Mounting Hardware (screws, bolts, mounting pole support)

SETUP

1. Outdoor Sensor Installation

The external sensor array measures wind speed, wind direction, rainfall, temperature, and humidity. Proper placement is crucial for accurate readings.

1. **Choose a Location:** Select an open area free from obstructions like trees or buildings that could interfere with wind or rain measurements. Ensure it is within 100 meters (330 feet) of the display console.

2. **Install Batteries:** The external sensor requires 3 AA batteries (not included) for operation. Open the battery compartment, insert the batteries according to polarity, and secure the cover.

3. **Mount the Sensor:** The sensor can be mounted on a fence, roof, or pole using the provided mounting hardware. Ensure the sensor is level using the integrated bubble level for accurate rain and wind measurements. The wind vane should point North for correct wind direction readings.

Molto Facile da Installare

Montare in alto

Montare su palo (in alto)

Montare sul lato

Montare su palo (lato)

Figure 1: Outdoor Sensor Mounting Options

Monitoraggio Iper Preciso della Pioggia

Collettore di Pioggia

Livella a Bolla

Coppette Anemometriche

Pannello Solare

Schermo di Radiazione Termo-Igrometro

Anemometro a Banderuola

Gamma di Precipitazioni

0   9999mm

Precisione

<15mm   15mm to 9999mm

±1mm   ±7%

Figure 2: Outdoor Sensor Components

2. Display Console Setup

1. **Install Backup Batteries:** The display console requires 3 AAA batteries (not included) to retain settings and data during power outages. Open the battery compartment on the back, insert the batteries, and close the cover.

2. **Connect Power Adapter:** Plug the provided power adapter into the DC port on the back of the console and then into a standard wall outlet. The display will illuminate.

3. **Initial Synchronization:** Once powered on, the console will automatically begin searching for the outdoor sensor. This process may take a few minutes. Ensure both units are within range.

Figure 3: Display Console

OPERATING INSTRUCTIONS

1. Display Overview

The 6.5-inch HD color LCD provides a clear, at-a-glance view of all current weather conditions. The display is divided into several sections, each showing specific data points.

Vedi Tutto il Meteo a Colpo d'Occhio

1. Direzione del Vento/Raffica/Media
2. Temperatura Esterna/Umidità/Punto di Rugiada/Percepita
3. Precipitazioni(1h/giorno/settimana/anno) 4. Icona Previsioni Meteo
5. Pressione Atmosferica 6. Fase Lunare
7. Temperatura Interna/Umidità 8. Data/Anno 9. Ora

1.IMPOSTARE 2.TEMPERATURA 3.PIOGGIA 4.VENTO/+ 5.PRESSIONE/- 6.ALLARME
7.MAX/MIN 8.LUCE RIPETIZIONE

Figure 4: Display Layout and Data Points

- **Wind:** Displays current wind speed, gust, and average wind speed, along with wind direction.
- **Outdoor Data:** Shows external temperature, humidity, dew point, and felt temperature.
- **Indoor Data:** Displays internal temperature and humidity.
- **Rainfall:** Tracks hourly, daily, weekly, monthly, and total rainfall.
- **Pressure:** Indicates current atmospheric pressure.
- **Forecast:** Provides a 12-hour weather forecast using intuitive icons.
- **Time & Date:** Current time, date, and moon phase.

2. Button Functions

The console features several buttons for navigation and settings adjustment:

- **SET:** Enters setup mode or confirms selections.
- **TEMP:** Toggles temperature units (°C/°F) or cycles through temperature data.
- **RAIN:** Displays different rainfall periods (hourly, daily, weekly, monthly, total).

- **WIND (+):** Adjusts wind settings or increases values during setup.
- **PRESSURE (-):** Adjusts pressure settings or decreases values during setup.
- **ALARM:** Sets or activates alarms for various weather conditions.
- **MAX/MIN:** Views maximum and minimum recorded values.
- **LIGHT/SNOOZE:** Adjusts backlight brightness or activates snooze for alarms.

3. Customizable Alerts

The weather station supports customizable alerts for specific weather conditions, such as high/low temperature, strong winds, or heavy rainfall. When an alert condition is met, the console will provide visual (flashing) and audible notifications.

Figure 5: Intelligent Weather Alerts

MAINTENANCE

1. Cleaning the Sensor Array

Periodically inspect and clean the outdoor sensor array to ensure accurate readings. Dust, debris, or insects can affect performance.

- **Rain Gauge:** Clear any leaves or debris from the rain collector funnel.
- **Anemometer Cups & Wind Vane:** Ensure they spin freely. Gently remove any obstructions.
- **Thermo-Hygrometer Radiation Shield:** Keep the vents clear for proper air circulation.

2. Battery Replacement

Replace batteries in both the outdoor sensor and display console as needed. Low battery indicators will appear on the display. Always use fresh, high-quality batteries of the specified type (3 AA for sensor, 3 AAA for console backup).

TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor data on display	Sensor out of range, low sensor batteries, interference.	Move sensor closer to console, replace sensor batteries, check for strong electronic interference.
Inaccurate temperature/humidity	Sensor exposed to direct sunlight/heat source, blocked vents.	Relocate sensor to a shaded area, clear radiation shield vents.
Inaccurate wind readings	Obstructions near sensor, wind vane not pointing North.	Ensure clear path for wind, verify wind vane orientation.
Inaccurate rainfall	Rain collector blocked, sensor not level.	Clear debris from collector, ensure sensor is perfectly level.
Display console not powering on	Power adapter disconnected, faulty adapter, no backup batteries.	Check power connection, try a different outlet, ensure backup batteries are installed.

SPECIFICATIONS

Figure 6: Product Dimensions and Specifications

- **Model Number:** SA6
- **Display:** 6.5-inch HD Color LCD

- **Outdoor Sensor Batteries:** 3 x AA (not included)

- **Console Backup Batteries:** 3 x AAA (not included)

- **Power Source:** AC Adapter / Battery

- **Material:** Acrylonitrile Butadiene Styrene (ABS)

- **Wireless Transmission Range:** Up to 100m (330ft)

- **Outdoor Temperature Range:** -40°F to 140°F (-40°C to 60°C)

- **Indoor Temperature Range:** 32°F to 140°F (0°C to 60°C)

- **Humidity Range:** 10% to 99% RH

- **Barometric Pressure Range:** 300 to 1100 hPa

- **Rainfall Accuracy:** ±1 mm (for <15 mm), ±7% (for 15-9999 mm)

- **Special Features:** Customizable alerts, adjustable brightness, portable, wireless, alarm clock.

- **Product Dimensions:** Console: 2.5 x 17 x 13.2 cm; Sensor: 12.9 x 18.5 x 4.25 cm (approximate)

- **Item Weight:** 2.74 Kilograms (total package)

WARRANTY AND SUPPORT

The Sainlogic SA6 Professional Weather Station comes with a standard manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or contact Sainlogic customer support. If you encounter any issues or require assistance, please reach out to our support team via the contact information provided on our official website or your purchase platform.