sainlogic SC088black

Sainlogic Weather Station User Manual

Model: SC088black

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Sainlogic Wireless Indoor Outdoor Weather Station. This device offers comprehensive real-time weather monitoring, including temperature, humidity, wind speed and direction, rainfall, and air pressure, along with weather forecasting and moon phase display. Please read this manual thoroughly before use to ensure optimal performance and longevity of your weather station.



Figure 1: Sainlogic Weather Station, showing the display console and the 7-in-1 outdoor sensor.

Product Components

Your Sainlogic Weather Station package includes the following main components:

- **Display Console:** The indoor unit with an LCD screen for displaying weather data.
- **7-in-1 Outdoor Sensor:** A multi-functional sensor for collecting outdoor weather data.
- **Mounting Pole and Hardware:** For installing the outdoor sensor.
- **Power Adapter:** For the display console.
- **User Manual:** This document.

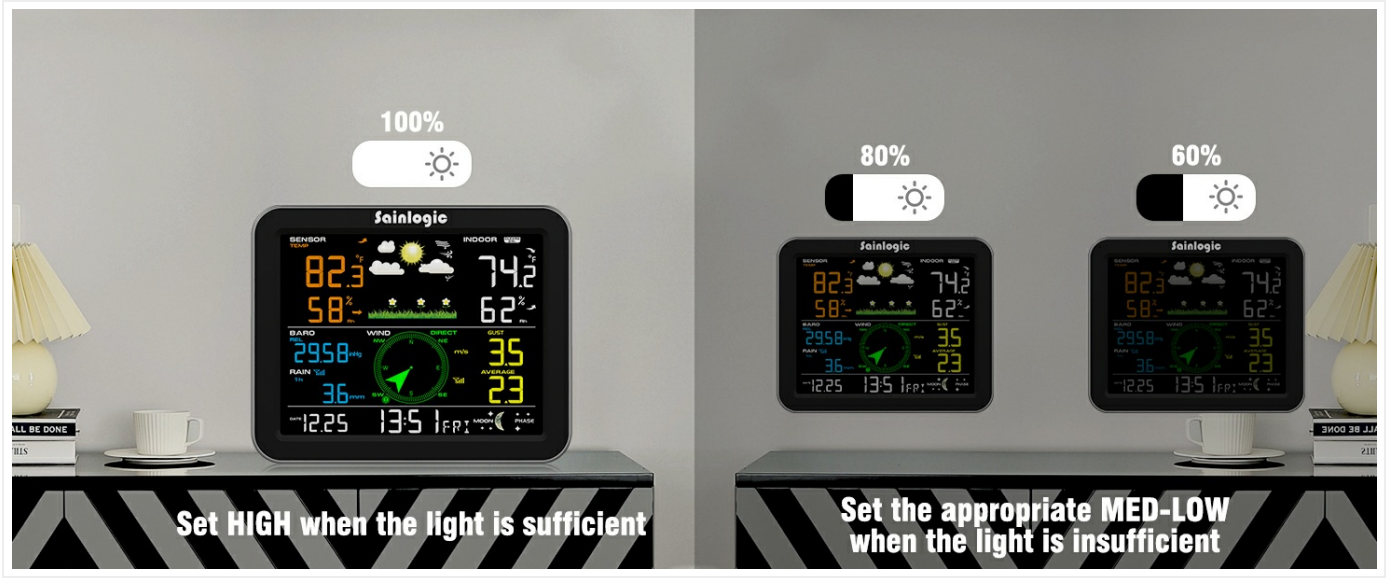


Figure 2: Contents of the Sainlogic Weather Station package, including the display console, outdoor sensor, mounting hardware, power adapter, and user manual. Batteries are not included.

Outdoor Sensor Details

The 7-in-1 outdoor sensor integrates multiple measurement tools:

- Rain Gauge (Rain Collector)
- Wind Cups (Anemometer)
- Wind Vane
- Solar Panel
- Thermo-Hygrometer (Temperature and Humidity Sensor)
- Radiation Shield
- Antenna



Figure 3: Breakdown of the 7-in-1 outdoor sensor, highlighting the rain collector, wind cups, solar panel, wind vane, and thermo-hygrometer with radiation shield.

Setup

1. Powering the Display Console

1. Connect the provided power adapter to the display console and plug it into a standard electrical outlet.
2. For backup power, install 3 AAA batteries (not included) into the battery compartment on the back of the console. Ensure correct polarity.

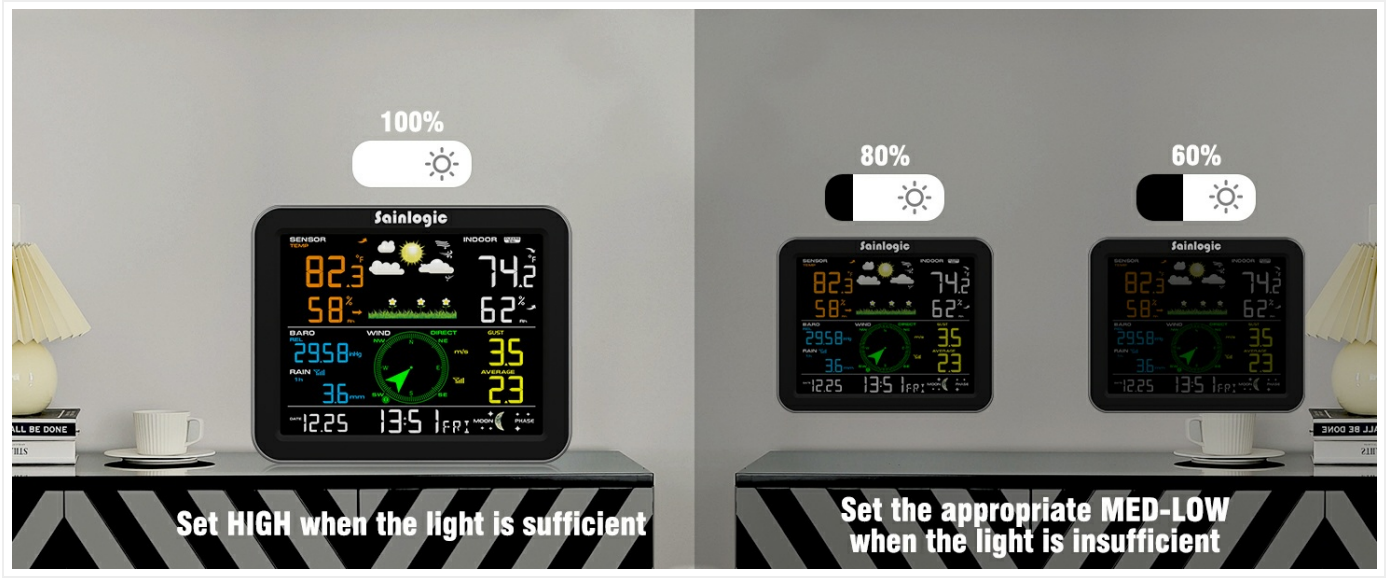


Figure 4: Illustration of connecting the power adapter and installing AAA batteries into the display console.

2. Installing the Outdoor Sensor

The outdoor sensor requires careful placement for accurate readings.

- **Location:** Choose an open area, free from obstructions like buildings, trees, or vehicles, that could interfere with wind, rain, or sunlight. The sensor has a transmission range of up to 328 feet (100 meters) to the display console.
- **Mounting:** Use the included mounting pole and bracket. Ensure the sensor is level for accurate rain collection and wind direction. The wind vane should point North.
- **Batteries:** Install batteries (not included) into the outdoor sensor as per the instructions in the sensor's specific manual (if provided separately).



Figure 5: Examples of outdoor sensor installation in various environments, demonstrating flexible placement options within the 328-foot transmission range.

3. Sensor Synchronization

Once both units are powered, the display console will automatically attempt to connect with the outdoor sensor. This may take a few minutes. Ensure both units are within range and free from major interference.

Operating Instructions

Display Console Overview

The 7.56 x 5.9-inch LCD screen displays various weather parameters. Key areas include:

- Indoor/Outdoor Temperature and Humidity
- Wind Direction and Speed (Gust and Average)
- Pressure and Rainfall
- Weather Tendency Indicator

- Date, Time, and Moon Phase



Figure 6: Front view of the display console with labels indicating various data points such as indoor/outdoor temperature, wind direction, pressure, rainfall, wind speed, weather tendency, date, time, and moon phase.



Figure 7: Back view of the display console, showing the location of buttons for setting min/max values, snooze/light, channel/alarm, hanging holes, battery compartment, and desktop stand.

Adjusting Display Brightness

The LCD screen features adjustable backlighting for clear readability in various light conditions. Use the "SNOOZE/LIGHT" button to cycle through brightness levels (100%, 80%, 60%).



Figure 8: Demonstrates the three levels of display brightness (100%, 80%, 60%) and how they appear in different lighting conditions.

Weather Forecasting

The weather station provides a forecast based on changes in barometric pressure. The display will show one of four illustrations: Sunny, Cloudy, Rainy, or Sunset.



Figure 9: Visual representation of the four weather forecasting icons: Sunny, Cloudy, Rainy, and Sunset.

Alarm Functions

The weather station supports multiple alarm modes for various weather parameters, allowing you to set alerts for specific conditions.

- Time (Alarm 1 and Alarm 2)
- Wind Gust
- Wind Average
- Outdoor Temperature (High/Low)
- Outdoor Humidity (High/Low)
- Outdoor Feels Like Temperature (High/Low)
- Outdoor Dew Point (High/Low)
- 24 Hour Rainfall
- Absolute Pressure (High/Low)
- Relative Pressure (High/Low)
- Indoor Temperature (High/Low)
- Indoor Humidity (High/Low)

Refer to the detailed user guide (PDF) for specific instructions on setting each alarm.

Maintenance

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

- **Cleaning:** Periodically clean the outdoor sensor, especially the rain gauge and wind cups, to remove debris that may affect readings. Use a soft, damp cloth. Do not use abrasive cleaners.
- **Battery Replacement:** Replace batteries in both the display console and outdoor sensor when the low battery indicator appears on the display. Use high-quality alkaline or lithium batteries.
- **Sensor Placement Check:** Annually check the outdoor sensor's mounting to ensure it remains level and securely fastened, especially after strong winds or storms.

Troubleshooting

If you encounter issues with your weather station, try the following steps:

Problem	Possible Cause	Solution
No outdoor data displayed.	Sensor not synchronized or out of range. Low batteries in outdoor sensor.	Ensure outdoor sensor batteries are fresh. Bring sensor closer to console to re-establish connection. Reset both units if necessary.
Inaccurate rain readings.	Rain gauge blocked by debris. Sensor not level.	Clean the rain collector. Ensure the outdoor sensor is mounted perfectly level.
Inaccurate wind readings.	Wind cups or vane obstructed. Sensor not in an open area.	Clear any obstructions around the wind cups and vane. Relocate the sensor to a more open area if possible.
Display console not turning on.	Power adapter issue. No or dead backup batteries.	Check power adapter connection. Ensure power outlet is functional. Install fresh AAA batteries.

For further assistance, please refer to the full user guide or contact Sainlogic customer support.

Specifications

Feature	Detail
Model Number	SC088black
Product Dimensions	0.98 x 7.3 x 5.9 inches (Display Console)
Weight	4.56 Pounds
Outdoor Temperature Range	-40°C to +60°C (-40°F to +140°F)
Indoor Temperature Range	0°C to +60°C (32°F to +140°F)
Temperature Accuracy	±1°C
Humidity Range	10% to 99% RH (1% resolution)
Humidity Accuracy	±5%
Wind Speed Range	Up to 112 mph (50 m/s)
Rainfall Range	0-9999mm
Barometric Pressure Range	300-1100 hPa
Barometric Accuracy	±3 hPa
Transmission Range	Up to 328 feet (100 meters) in open air
Power Source (Console)	Power Adapter (included), 3 x AAA batteries (not included)
Power Source (Sensor)	Batteries (not included)
Material	Acrylonitrile Butadiene Styrene (ABS)

Warranty and Support

For detailed warranty information, please refer to the official Sainlogic website or the documentation included with your purchase.

For additional support, including a more comprehensive user guide, please visit the following link:Sainlogic Weather Station User Guide (PDF)

You can also visit the official Sainlogic store on Amazon for more products and support:Sainlogic Amazon Store

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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