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sainlogic SC-07

Sainlogic Wireless Weather Station User Manual

Model: SC-07

1. Product Overview

The Sainlogic Wireless Weather Station is designed to provide comprehensive indoor and outdoor environmental data. It features an 8.3-inch large, easy-to-read color display that shows temperature, humidity, weather forecasts, atmospheric pressure, moon phase, and atomic clock time. The system includes a main display console and a wireless outdoor sensor, offering reliable and accurate readings for enhanced home comfort and planning.



Image: Sainlogic Wireless Weather Station main display unit and wireless outdoor sensor.

2. Key Features

- **Enhanced Display:** Large 8.3-inch color screen with vibrant visuals for clear readings of indoor/outdoor temperature, humidity, weather changes, atmospheric pressure, moon phase, atomic clock, date, and comfort indicator.
- **Clear and Reliable Records:** Tracks and records minimum and maximum indoor and outdoor temperature and humidity values. Continuous backlighting requires the unit to be plugged in.
- **Atomic Clock with Auto DST:** Automatically maintains accurate time and date via atomic clock synchronization. Features automatic Daylight Saving Time (DST) adjustment (can be enabled/disabled).
- **Weather Forecasting:** Utilizes temperature and humidity data from outdoor sensors to provide local weather forecasts, aiding in activity planning.
- **Flexible Channel Options:** Supports three channels for indoor and outdoor sensors, allowing placement in various locations like living rooms, bedrooms, garages, or porches.

Stronger and Smarter

	Sainlogic SC-07	Others
		
Display Size	8.31-inch	7.5-inch
Screen Brightness	very bright	dark
Connection Distance	300ft	295ft
Indoor Temperature Range	32 to 140°F	32 to 99°F

Image: Comparison highlighting the 8.31-inch display, screen brightness, connection distance, and indoor temperature range of the Sainlogic SC-07.



Image: The weather station displaying data, emphasizing its accuracy and alignment with National Weather Service data.

3. Package Contents

- Display Console
- Outdoor Sensor
- Power Adapter
- User Manual (this document)

4. Setup

4.1 Powering the Main Unit

The main display console can be powered in two ways:

1. **Plug Supply:** For continuous backlighting and optimal performance, connect the included power adapter to the main unit and

a wall outlet.

2. **Battery-powered:** For temporary use or memory retention during power outages, insert three AAA (alkaline or lithium) batteries into the battery compartment on the back of the unit. Note that continuous backlighting is not available when battery-powered only.

4.2 Installing the Outdoor Sensor

The outdoor sensor requires 2 AAA batteries (not included). Insert them into the sensor's battery compartment. Place the outdoor sensor in a sheltered location, ideally on the north side of your home, to protect it from direct sunlight and precipitation, ensuring accurate readings. The sensor has a wireless range of up to 300 ft (100 m).



Image: Illustration of the main unit being powered by a plug adapter and by AAA batteries.



Image: Display console with triangular bracket for desktop use and wall-mounted option. Also shows examples of indoor and outdoor sensor placement.

4.3 Pairing Sensors and Atomic Clock Synchronization

Once both the main unit and outdoor sensor are powered, they should automatically pair. The atomic clock will also attempt to synchronize with the WWVB signal daily to ensure accurate time. Ensure the Auto DST option is set correctly if you wish for automatic daylight saving time adjustments.



Image: The weather station showing the atomic clock feature with Auto DST enabled, indicating automatic time synchronization.

5. Operating Instructions

5.1 Understanding the Display

The 8.3-inch LCD display provides a wealth of information at a glance:

- **Date and Time:** Displays current date and time, synchronized by the atomic clock.
- **Indoor Temperature & Humidity:** Shows current indoor conditions.
- **Outdoor Temperature & Humidity:** Shows current outdoor conditions received from the wireless sensor.
- **Weather Forecast:** Icons indicate predicted weather conditions (sunny, cloudy, rainy, snowy, etc.).
- **Barometric Pressure:** Displays current atmospheric pressure and a history graph.
- **Moon Phase:** Shows the current moon phase.
- **Comfort Indicator:** A visual icon indicating indoor comfort levels based on temperature and humidity.
- **Min/Max Records:** The device records and displays the minimum and maximum temperature and humidity values over a period.



Image: Detailed view of the large 8.3-inch display, highlighting its easy readability and comprehensive data presentation.

5.2 Adjusting Display Brightness

The display features 3 levels of adjustable backlight brightness (100%, 80%, 60%). Use the "SNOOZE/LIGHT" button to cycle through the brightness levels to suit your preference and ambient lighting conditions. This feature is primarily active when the unit is powered by the AC adapter.



Image: The weather station display demonstrating its three adjustable backlight brightness levels.

6. Maintenance

- **Battery Replacement:** Replace batteries in the outdoor sensor annually or when the low battery indicator appears on the main display. For the main unit, replace backup batteries as needed.
- **Cleaning:** Wipe the display console and outdoor sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Placement:** Ensure the outdoor sensor remains in a sheltered location to prolong its lifespan and maintain accuracy.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Sensor out of range, low sensor battery, interference.	Move sensor closer to the main unit. Replace sensor batteries. Relocate both units away from electronic devices that may cause interference. Press the TX button on the outdoor sensor to re-transmit the signal.
Inaccurate temperature/humidity readings.	Sensor exposed to direct sunlight or heat source, poor ventilation.	Ensure outdoor sensor is in a shaded, well-ventilated area. Ensure main unit is not near heat sources or direct sunlight indoors.
Atomic clock not synchronizing.	Weak WWVB signal, interference, incorrect time zone setting.	Place the main unit near a window, away from electronic interference. Ensure the correct time zone is selected on the unit. Allow up to 24-48 hours for initial synchronization.
Display is dim or off.	Unit is battery-powered only, low batteries, power adapter issue.	Connect the power adapter for continuous backlighting. Replace main unit batteries if running on battery power. Check power adapter connection.

8. Specifications

Feature	Detail
Brand	sainlogic
Model Number	SC-07
Display Type	LCD Color Display
Display Size	8.3 inches
Power Source (Main Unit)	Power Adapter (included), 1 Lithium Polymer battery (backup, not included)
Power Source (Outdoor Sensor)	2 AAA Batteries (not included)
Connectivity Technology	Wireless (433MHz Frequency)
Wireless Range	Up to 300 ft (100 m) in open air
Temperature Accuracy	+/- 1-2 degrees Celsius
Humidity Range	10% to 99% RH
Material	Acrylonitrile Butadiene Styrene (ABS)

Feature	Detail
Color	Black
Product Dimensions	1"D x 1"W x 1"H (Main Unit)
Item Weight	10 ounces (283 Grams)
UPC	734257016315

9. Warranty and Support

For warranty information, technical support, or further assistance, please refer to the official Sainlogic website or contact their customer service. A digital version of this user manual is also available for download at https://manuals.plus/m/3c83656dd0ced5f907c448ac3dfc26bd415f878f46336069dbc8011498521d11.

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