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sainlogic FT-0835

Sainlogic Wireless Weather Station

Instruction Manual - Model FT-0835

1. Introduction

Thank you for choosing the Sainlogic Wireless Weather Station. This 8-in-1 weather station provides comprehensive real-time data including rainfall, wind speed, wind direction, air pressure, humidity, temperature, and moon phase. This manual will guide you through the setup, operation, and maintenance of your new weather station to ensure optimal performance and longevity.
Key features include:

- Comprehensive weather monitoring: Rainfall, wind speed, wind direction, air pressure (300-1100 hPa), humidity (10%-99%), and temperature (indoor: 0°C-60°C; outdoor: -40°C-60°C).
- 328 feet wireless transmission for easy installation.
- 6.5-inch LCD display with adjustable backlight for clear visibility.
- Advanced weather alarm features for temperature and wind speed.

2. Product Overview

The Sainlogic Wireless Weather Station consists of two main parts: the main display console and the outdoor multi-sensor unit.



Figure 2.1: Sainlogic Wireless Weather Station main display console and outdoor sensor unit.



Figure 2.2: The main display console features a large LCD screen showing weather forecast, alarm status, calendar, moon phase, rainfall, air pressure, wind speed & direction, and indoor/outdoor temperature and humidity.



Figure 2.3: The 5-in-1 outdoor sensor unit includes wind-cups for speed, a rain collector, a solar panel, a wind vane for direction, and a thermo-hygrometer radiation shield for temperature and humidity. It also features a low battery icon indicator.

3. Components

The package includes the following components:

- Display Console
- Outdoor Sensor
- Power Adapter
- User Manual (this document)
- Mounting Pole
- Foot Mounting with pole insert and mounting nuts (M3) / bolts (O3) / Tapping screws
- Mounting Bracket Back Plate (pole mount) with mounting nuts (M5) / bolts (O5)



Figure 3.1: Included components and dimensions. The display console measures 6.5 inches (165mm) wide by 4.5 inches (115mm) high. The outdoor transmitter is approximately 13 inches wide and 19.99 inches high with the mounting pole.

4. Setup

Follow these steps for initial setup of your weather station:

1. **Powering the Display Console:** Insert the power adapter into the DC in port on the back of the display console. Alternatively, for backup, install 3 AA batteries (not included) into the battery compartment.
2. **Powering the Outdoor Sensor:** Install 3 AA batteries (not included) into the outdoor sensor unit. Ensure the battery polarity is correct.
3. **Sensor Placement:** Place the outdoor sensor in an open area, away from obstructions like buildings or trees, to ensure accurate readings for wind, rain, and temperature. The sensor has a wireless transmission range of up to 328 feet (100 meters).

4. **Pairing:** The display console and outdoor sensor should automatically pair within a few minutes. Keep them within 10 feet of each other during initial pairing. If pairing fails, refer to the troubleshooting section.
5. **Mounting the Outdoor Sensor:** Choose a suitable location for the outdoor sensor. Ensure the rear end of the sensor unit faces south for accurate wind readings. Various mounting options are available:

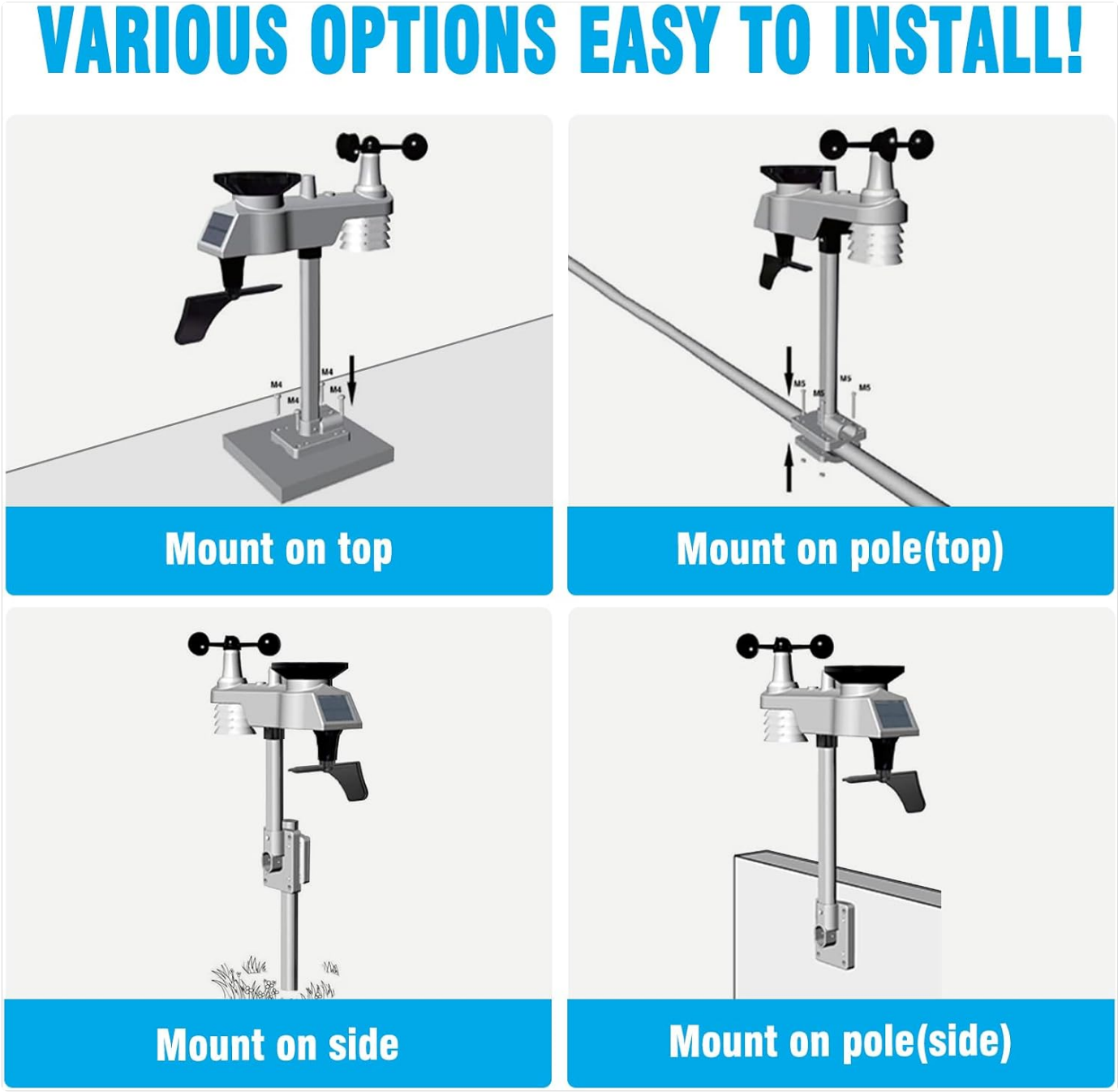


Figure 4.1: The weather station has a range of up to 328 feet/100m, ensuring reliable wireless data transmission.

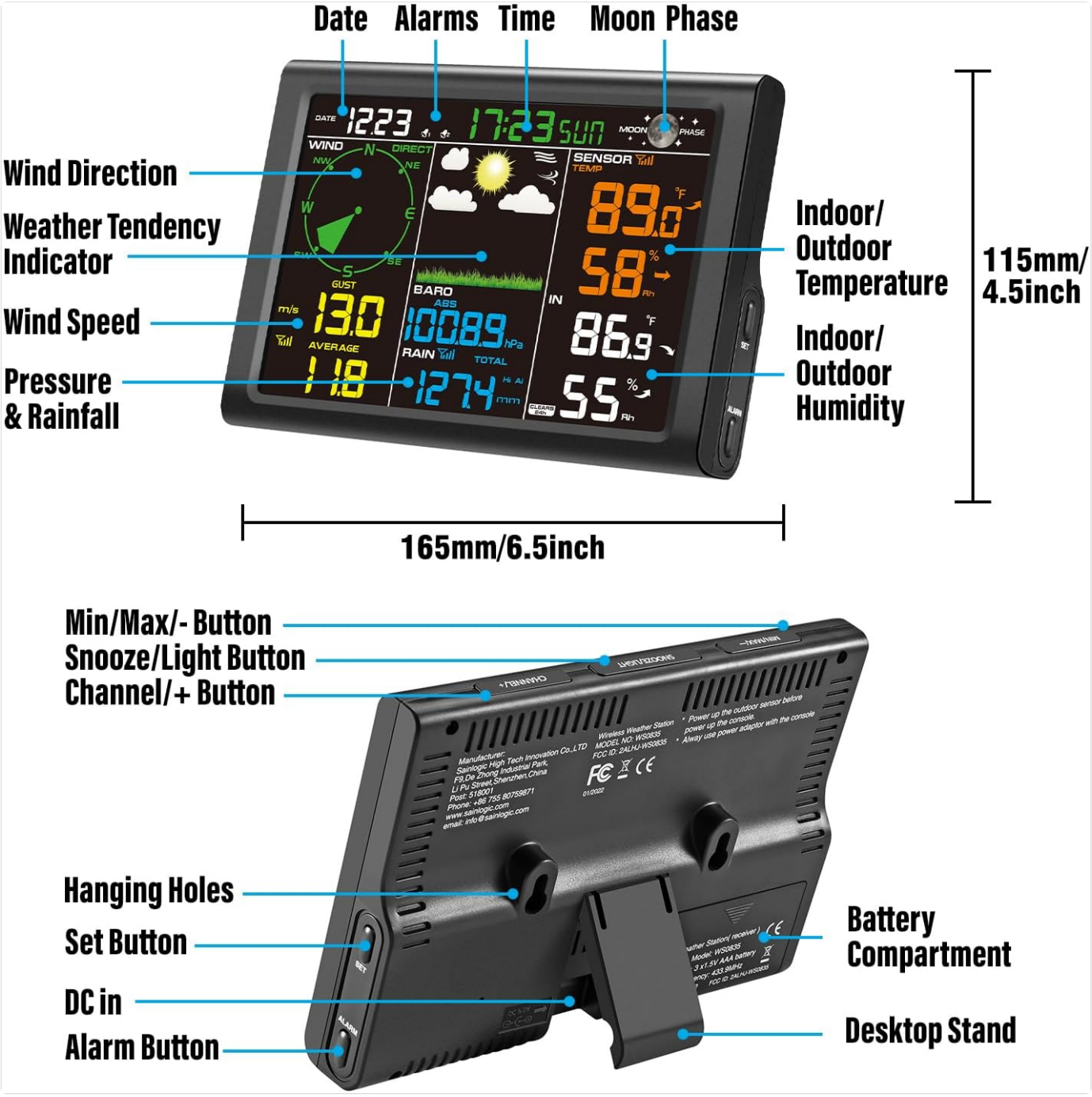


Figure 4.2: Various mounting options for the outdoor sensor, including mounting on top of a flat surface, on top of a pole, on the side of a structure, or on the side of a pole.

Video 4.1: A brief overview of the Wireless Weather Station, demonstrating its components and basic functionality. This video is provided by the seller.

Video 4.2: A short demonstration of the Sainlogic Weather Station, highlighting its display and outdoor sensor. This video is provided by the seller.

5. Operating

Once set up, your Sainlogic Wireless Weather Station will begin displaying real-time weather data. Here's how to interpret and interact with the display console:

- **LCD Display:** The large 6.5x4.5 inch LCD features clear fonts and a colorful layout for easy reading of key metrics.
- **Adjustable Backlight:** Use the 'Snooze/Light' button to adjust the backlight brightness for optimal viewing in

various lighting conditions.

- **Weather Forecast:** The display provides a weather forecast based on changes in atmospheric pressure.
- **Temperature & Humidity:** View indoor and outdoor temperature and humidity readings.
- **Wind Data:** Displays current wind speed and direction.
- **Rainfall:** Tracks total rainfall.
- **Air Pressure:** Shows current atmospheric pressure.
- **Moon Phase:** Indicates the current moon phase.
- **Alarms:** Set high/low alarms for temperature, wind speed, and other parameters. The station will alert you with visual and audible signals when thresholds are exceeded.
- **Min/Max Records:** Use the 'Min/Max/-' button to view minimum and maximum recorded values for various parameters.

6. Maintenance

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

- **Cleaning:** Periodically clean the outdoor sensor unit, especially the rain collector and wind-cups, to prevent debris buildup that could affect accuracy. Use a soft, damp cloth for cleaning. Avoid abrasive cleaners.
- **Battery Replacement:** The outdoor sensor requires 3 AA batteries. Replace them when the low battery indicator appears on the display console. While the outdoor sensor has a solar panel, it primarily extends battery life and does not recharge the batteries.
- **Display Console Cleaning:** Wipe the display console with a soft, dry cloth. Do not use liquid cleaners.
- **Calibration:** If you suspect inaccurate readings, refer to the detailed user manual (PDF link provided in Section 8) for instructions on calibrating specific sensors, such as the rain gauge.

7. Troubleshooting

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

Problem	Possible Cause	Solution
No outdoor data displayed / dashes on screen	Loss of wireless connection; low sensor battery.	Ensure outdoor sensor is within range (328 ft/100m) and free from interference. Replace batteries in the outdoor sensor. Re-pair the units by powering off both, then powering on the outdoor sensor first, followed by the display console.
Inaccurate temperature/humidity readings	Sensor exposed to direct sunlight or heat sources; sensor dirty.	Relocate the outdoor sensor to a shaded area. Clean the thermo-hygrometer radiation shield. Allow time for readings to stabilize after relocation.
Inaccurate wind speed/direction	Obstructions blocking wind flow; wind-cups/vane stuck.	Ensure the sensor is mounted in an open area. Check for and remove any debris or obstructions from the wind-cups and wind vane. Verify the sensor is oriented correctly (rear facing south).

Problem	Possible Cause	Solution
Rain gauge not registering rainfall	Rain collector blocked; calibration needed.	Clear any leaves or debris from the rain collector funnel. Refer to the detailed user manual for rain gauge calibration instructions.
Display console not responding	Power issue; system crash.	Check power adapter connection or replace batteries. Perform a soft reset by removing all power sources (adapter and batteries) for a few minutes, then reconnect.

For more detailed troubleshooting or specific error codes, please refer to the full User Manual PDF linked in the Warranty and Support section.

8. Specifications

Feature	Detail
Model Number	FT-0835
Brand	sainlogic
Display Type	LCD
Display Console Dimensions	1.1"D x 6.5"W x 4.5"H
Outdoor Sensor Connectivity	Wireless
Wireless Transmission Range	Up to 328 feet (100 meters)
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)
Humidity Range	10% to 99% RH
Air Pressure Range	300-1100 hPa
Power Source (Console)	Power Adapter (included), 3 AA batteries (not included) for backup
Power Source (Sensor)	3 AA batteries (not included)
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	2.3 Pounds
UPC	734257012065

9. Warranty and Support

For detailed warranty information, please refer to the documentation included with your product or contact Sainlogic customer support directly. Keep your purchase receipt for warranty claims.
For additional support and a comprehensive guide, you can download the official User Manual in PDF format:

Download User Manual (PDF)

Download User Guide (PDF)

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

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