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sainlogic FT0835-plus

Sainlogic FT0835-Plus Professional Weather Station User Manual

Model: FT0835-Plus
Brand: Sainlogic

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Sainlogic FT0835-Plus Professional Weather Station. This advanced weather station allows you to monitor various environmental conditions both indoors and outdoors, providing accurate data for your home or garden. It features a vibrant color LCD display and Wi-Fi connectivity for data upload to popular weather networks.

Package Contents

- Base Station (Display Console) with stand
- Outdoor Sensor (Multi-sensor)
- Mounting hardware for outdoor sensor
- User Manual

Note: Batteries are not included in the package. The base station requires 3 AAA batteries, and the outdoor sensor requires 3 AA batteries (for up to 12 months of power).



The complete Sainlogic FT0835-Plus weather station package, including the main display console and the integrated outdoor sensor unit.

Setup Guide

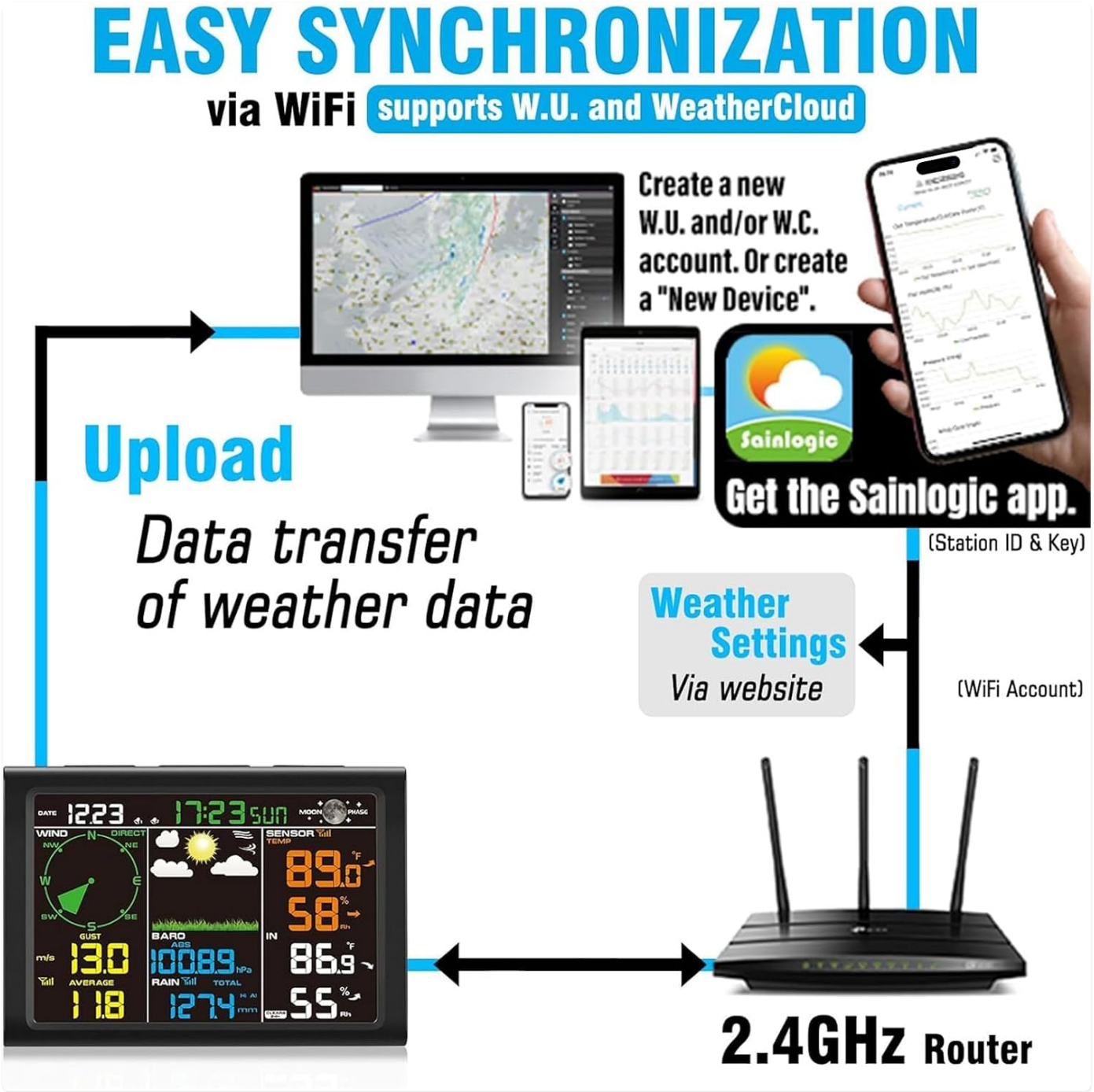
1. Outdoor Sensor Assembly and Placement

The 10-in-1 outdoor sensor measures temperature, humidity, wind speed, wind direction, rainfall, and UV radiation. Proper placement is crucial for accurate readings.

1. **Battery Installation:** Open the battery compartment on the outdoor sensor and insert 3 AA batteries (not included). Ensure correct polarity.
2. **Assembly:** Assemble the wind cups, wind vane, and rain collector as per the diagrams provided in the full manual.
3. **Mounting:** Mount the sensor in an open area, away from obstructions like buildings or trees, to ensure accurate wind and rain measurements. The solar panel should face south for optimal charging.



Detailed view of the outdoor sensor, highlighting its key components: rain collector, solar panel, wind vane, wind cups, and the thermo-hygrometer radiation shield. This sensor transmits data wirelessly to the console.



This image illustrates the advanced features of the outdoor sensor, including its high-speed anemometer for wind, solar-powered fan for temperature accuracy, and a self-emptying rain gauge.



Diagram showing different ways to mount the outdoor sensor, such as on top of a pole or attached to the side, to ensure stable and accurate data collection.

2. Display Console Setup

Place the display console indoors, within 328 feet (100 meters) of the outdoor sensor, avoiding large metal objects that may interfere with the wireless signal.

1. **Power On:** Insert 3 AAA batteries (not included) into the console or connect the AC adapter. The console will power on and begin searching for the outdoor sensor.
2. **Sensor Connection:** The console should automatically connect to the outdoor sensor within a few minutes. Once connected, outdoor data will appear on the display.



The main display console, showcasing its vibrant color LCD screen with various weather parameters like wind, temperature, humidity, and barometric pressure, along with time and date.

3. Wi-Fi Connectivity and Data Upload

Your weather station supports Wi-Fi connectivity to upload data to global weather networks like Weather Underground (W.U.) and Weathercloud, and the Sainlogic app.

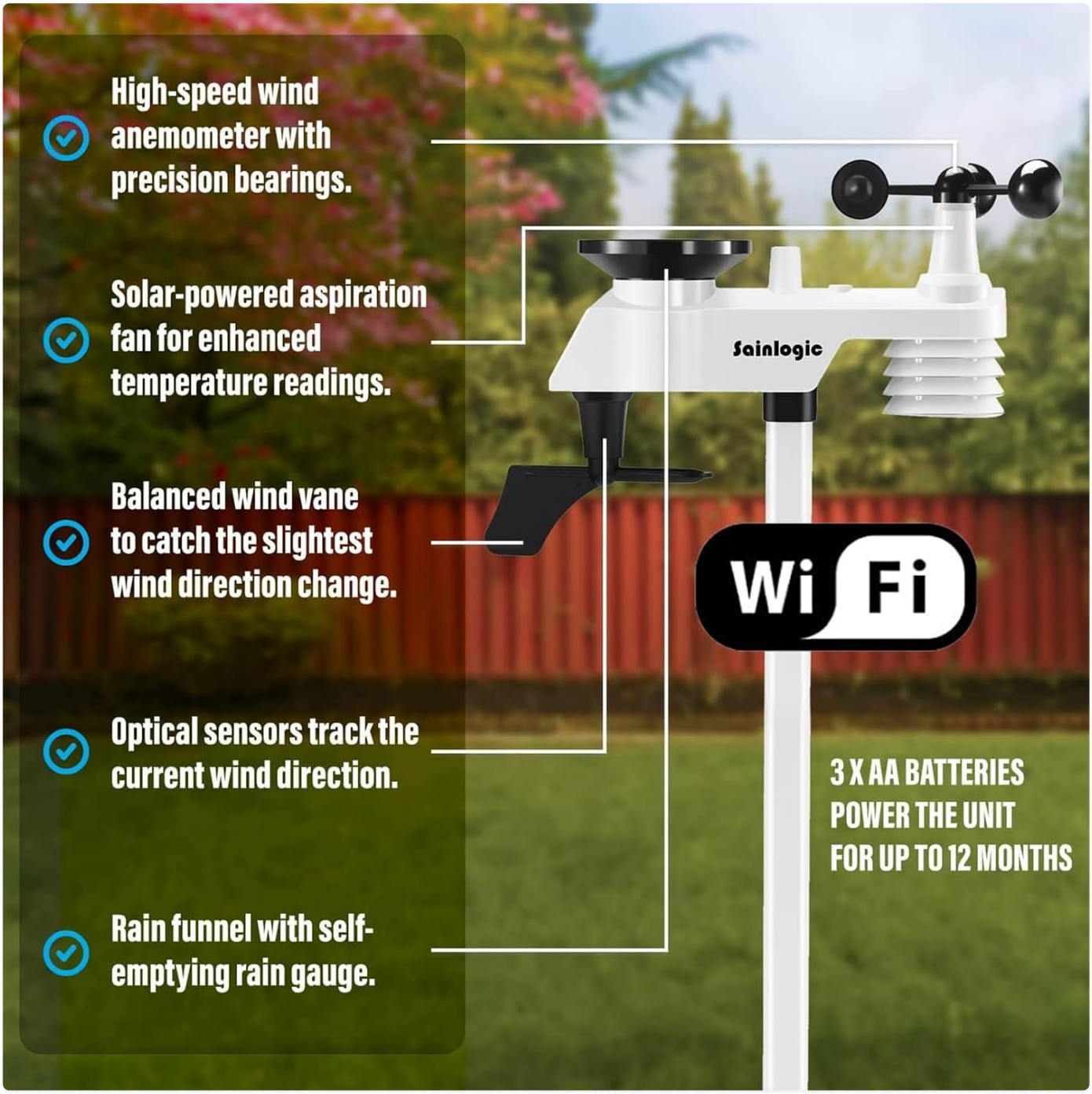
1. **Preparation:** Before connecting, create accounts on Weather Underground and Weathercloud. Note down your device IDs and keys.
2. **Enter WAP Mode:** On the console, press and hold the**MIN/MAX/-** button for three seconds to enter Wireless Access Point (WAP) mode.
3. **Connect to Console's Wi-Fi:** From your computer or smartphone, connect to the Wi-Fi network named "weatherhome-nnnn" (where 'nnnn' is specific to your console). Ensure your device is on a 2.4 GHz band.
4. **Configure Settings:** Open a web browser and navigate to the console's configuration page (usually 192.168.X.X, refer to on-screen instructions or manual). Enter your home Wi-Fi credentials and the Weather Underground/Weathercloud

IDs and keys.

5. **Save and Upload:** Save the settings. The console will automatically start uploading data.



This image demonstrates how to view real-time weather data from your Sainlogic weather station directly on your smartphone using compatible weather apps like Weather Underground.



An illustration of the seamless data synchronization process, where the weather station connects to your 2.4GHz Wi-Fi router to upload data to online weather services and the Sainlogic mobile application.

Operating the Weather Station

Understanding the Display

The color LCD display provides a comprehensive overview of current weather conditions. Key areas include:

- **Date & Time:** Current date and time.
- **Wind Information:** Current wind speed, average wind speed, and wind direction (compass rose).
- **Weather Forecast:** Graphical icons indicating predicted weather conditions.
- **Barometric Pressure:** Current atmospheric pressure.
- **Rainfall:** Total rainfall.
- **Indoor/Outdoor Temperature & Humidity:** Current readings for both indoor and outdoor environments.

- **Moon Phase:** Current lunar phase.



A closer look at the weather station's display, showing how different weather parameters are organized and presented for easy readability.



This image provides a visual guide to the various data points and features displayed on the console, including wind, temperature, humidity, and more.

Adjusting Settings

Use the buttons on the console to navigate menus and adjust settings such as time, date, units of measurement (e.g., °C/°F, mph/km/h), and alarm thresholds.

- **SET Button:** Press to enter settings mode.
- **+/- Buttons:** Use to adjust values or navigate options.
- **ALARM Button:** Set and activate alarms for specific weather conditions (e.g., high wind, low temperature).



An image showing the rear of the display console, indicating the location of buttons, power input, and the battery compartment.

Maintenance

Battery Replacement

Replace batteries in both the console and outdoor sensor when the low battery indicator appears on the display. Use fresh, high-quality batteries.

Sensor Cleaning

Periodically clean the outdoor sensor, especially the rain collector and wind cups, to prevent debris buildup that could affect accuracy. Use a soft, damp cloth. Do not use abrasive cleaners.

Calibration

If you suspect inaccurate readings, the station may require calibration. Refer to the specific instructions in the full user manual for detailed calibration procedures, especially for rainfall and pressure.

Troubleshooting

Problem	Possible Cause	Solution
No outdoor data displayed.	Sensor out of range, low sensor batteries, interference.	Move console closer to sensor, replace sensor batteries, check for obstructions. Perform a factory reset if necessary (refer to full manual for official method).
Wi-Fi connection fails.	Incorrect Wi-Fi password, 5GHz network, firewall issues.	Ensure correct 2.4GHz network, re-enter password, check router settings.
Inaccurate rainfall readings.	Debris in rain collector, sensor not level.	Clean rain collector, ensure sensor is mounted level. Calibrate if needed.
Inaccurate wind readings.	Obstructions near sensor, wind cups/vane stuck.	Relocate sensor to an open area, check for physical obstructions.

Specifications

- **Model:** FT0835-Plus
- **Indoor Temperature Range:** 32°F to 140°F (0°C to 60°C)
- **Outdoor Temperature Range:** -40°F to 140°F (-40°C to 60°C)
- **Indoor/Outdoor Humidity Range:** 10% to 99% RH
- **Wind Speed Range:** 0-112 mph (0-50 m/s)
- **Wind Direction:** 0-360 degrees (16 directions)
- **Rainfall Display:** 0 to 9999mm
- **Barometric Pressure Range:** 8.85-32.5 inHg (300-1100 hPa)
- **Transmission Frequency:** 433.92 MHz
- **Transmission Range:** Up to 328 feet (100 meters) in open air
- **Console Power:** 3 x AAA batteries or AC adapter
- **Outdoor Sensor Power:** 3 x AA batteries (with solar assist)
- **Console Dimensions:** 5.3 x 3.7 inches (135 x 96 mm)



A table outlining the precise measurement ranges, accuracy, and resolution for all parameters monitored by the weather station, such as indoor/outdoor temperature, humidity, wind, rain, and barometric pressure.



An overview of all items included in the weather station package, such as the display console, outdoor sensor, various mounting components, and the instruction manual.

Warranty and Support

Sainlogic products are designed for durability and performance. For any issues or support, please refer to the contact information provided in your product packaging or visit the official Sainlogic website. Keep your purchase receipt for warranty claims.
For common issues, please refer to the troubleshooting section of this manual or online resources.

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