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Sainlogic FT0300

Sainlogic Professional Wireless Weather Station User Manual

Model: FT0300

1. Introduction

The Sainlogic Professional Wireless Weather Station provides comprehensive weather monitoring capabilities for your home, garden, or other environments. Featuring a bright 10.2-inch color LCD display, it offers real-time data on various meteorological parameters. This manual will guide you through the setup, operation, and maintenance of your weather station to ensure optimal performance and accurate readings.



Figure 1: Sainlogic Professional Wireless Weather Station components.

2. Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- Main Display Console (10.2-inch color LCD)
- 7-in-1 Outdoor Multi-Sensor (integrated wind vane, anemometer, rain collector, UV/light sensor, thermo-hygrometer)
- Indoor Thermo-Hygrometer Sensor
- Mounting Hardware for Outdoor Sensor (pole/wall mount)
- Power Adapter for Display Console
- User Manual (this document)

3. Product Overview

3.1. Display Console

The main display console features a large, vibrant color screen that presents all weather data clearly. It includes functions such as time, date, alarm, moon phases, and various indoor and outdoor measurements.



Figure 2: Display Console dimensions (215mm x 158mm).

3.2. 7-in-1 Outdoor Multi-Sensor

This integrated sensor unit measures wind speed, wind direction, rainfall, UV index, light intensity, outdoor temperature, and outdoor humidity. It is designed for outdoor installation and is solar-powered with battery backup.



Figure 3: Detailed view of the 7-in-1 Outdoor Multi-Sensor, showing its components including the rain collector, UV and light sensor, wind cups, solar panel, wind vane, and thermo-hygrometer with radiation shield.

3.3. Indoor Thermo-Hygrometer Sensor

A compact sensor for monitoring indoor temperature and humidity, which transmits data wirelessly to the main display console.

4. Setup

4.1. Outdoor Multi-Sensor Installation

1. **Battery Installation:** Open the battery compartment on the outdoor sensor and insert 3 AA batteries (not included). Ensure correct polarity. The sensor is also solar-powered, extending battery life up to 12 months.
2. **Mounting Location:** Choose an open location for the outdoor sensor, free from obstructions like buildings, trees, vehicles, or high-voltage lines, which can affect wind measurement accuracy and wireless signal range.
3. **Mounting:** Use the provided mounting hardware to secure the sensor to a pole or wall. Ensure the sensor is level for

accurate rain collection. Various mounting options (top, side, pole) are supported.

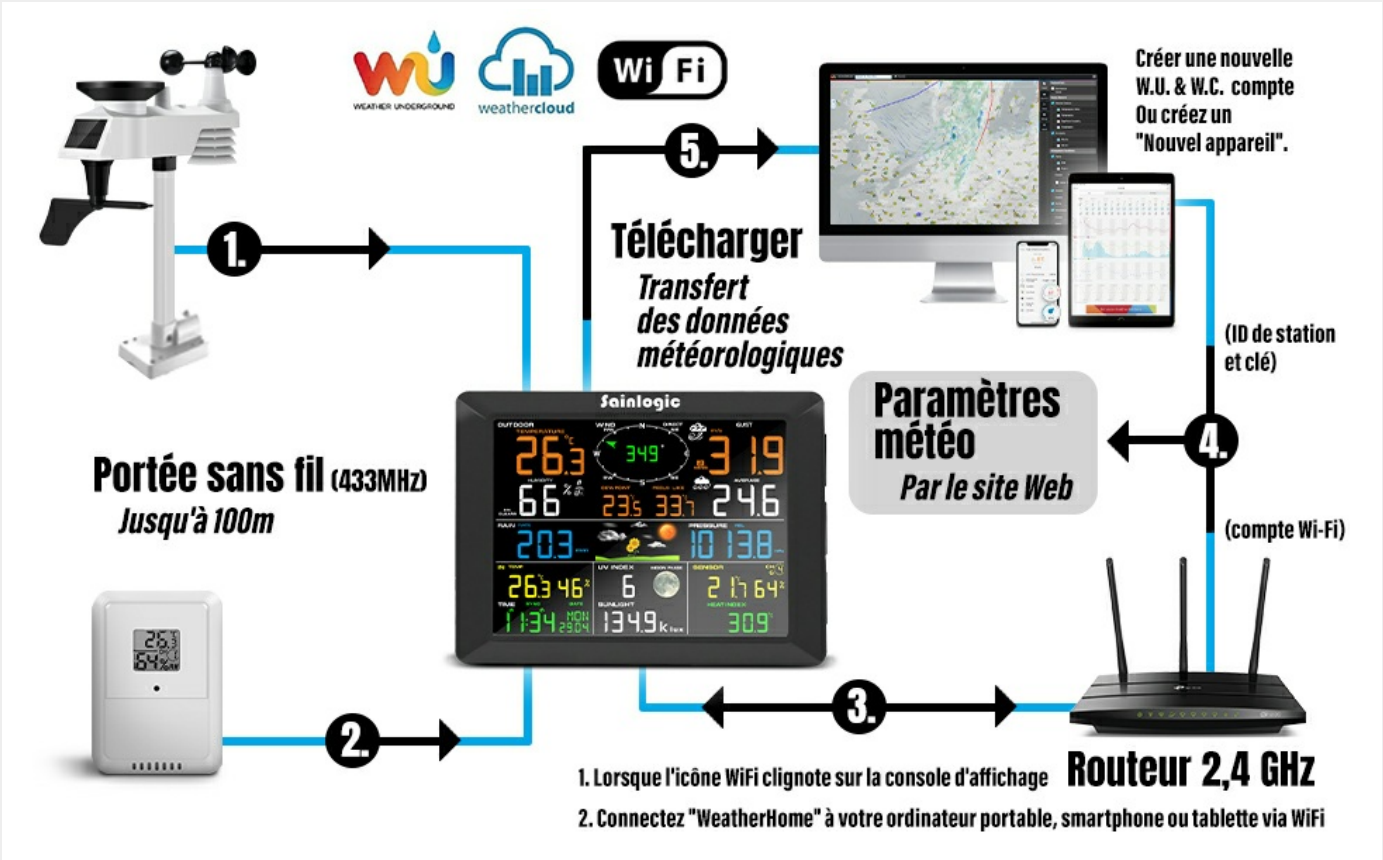


Figure 4: Outdoor sensor details including battery compartment and reset button, along with various mounting possibilities (top mount, side mount, pole mount).

4.2. Display Console Setup

1. **Power On:** Connect the power adapter to the display console and plug it into an electrical outlet. The console will power on and begin searching for sensors.
2. **Initial Settings:** Follow the on-screen prompts to set basic parameters like time zone, date format, and measurement units (°C/°F, mph/km/h).

4.3. Indoor Thermo-Hygrometer Sensor Setup

1. **Battery Installation:** Insert batteries into the indoor sensor. It will automatically transmit data to the main console.

4.4. Wireless Connection

The outdoor and indoor sensors will automatically connect wirelessly to the display console. The wireless transmission range can reach up to 100 meters (328 feet) in open areas. Obstacles such as buildings, trees, and high-voltage lines can reduce this range.



Figure 5: Illustration of the wireless connection between the outdoor sensor and the display console, highlighting the maximum transmission range of 100m/328ft, with a note about potential interference from obstacles.

4.5. WiFi and Internet Connection

The weather station supports WiFi connectivity to upload data to online weather services like Weather Underground and Weathercloud. This allows you to view your weather data remotely via a smartphone app or web browser.

1. **Connect to Console WiFi:** When the WiFi icon on the display console flashes, connect your smartphone, tablet, or laptop to the console's WiFi network (usually named "WeatherHome").
2. **Configure Network:** Open a web browser and navigate to the console's IP address (refer to the on-screen instructions or manual for the specific IP). Configure your home 2.4 GHz WiFi router settings.
3. **Register with Services:** Create accounts on Weather Underground and/or Weathercloud. Enter your station ID and key into the console's web interface to link your station.
4. **Data Transfer:** Once configured, the station will automatically transfer weather data to these online platforms.



Figure 6: Diagram illustrating the easy synchronization process of the weather station with online weather networks via WiFi, showing connectivity to Weather Underground and Weathercloud.

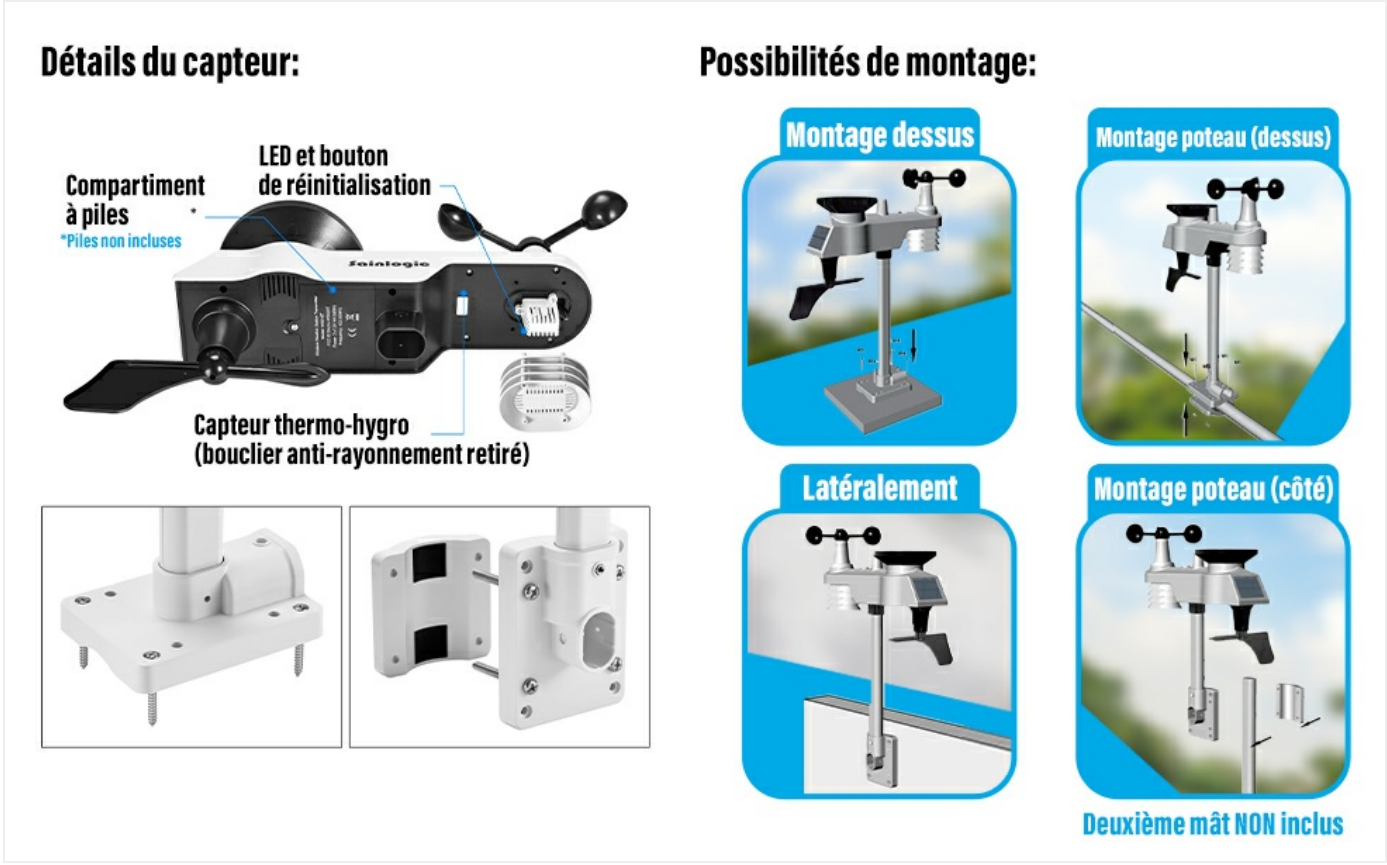


Figure 7: Flowchart detailing the WiFi setup process, from the outdoor sensor to the display console, then to a 2.4 GHz router, and finally to online weather services like Weather Underground and Weathercloud for data transfer and web-based settings.

5. Operating Instructions

5.1. Display Console Data

The 10.2-inch color display provides a comprehensive overview of current and historical weather data. Key information displayed includes:

- Outdoor Temperature and Humidity
- Indoor Temperature and Humidity
- Wind Speed and Direction (including gust and average)
- Rainfall (rate and total)
- Barometric Pressure (relative and absolute)
- UV Index and Sunlight (lux)
- Dew Point and Heat Index
- Weather Forecast Icons
- Time, Date, and Moon Phase
- Alarm Function with Snooze



Figure 8: The display console showcasing a wide array of weather data, including outdoor temperature, humidity, wind speed and direction, gust, rain rate, dew point, pressure, UV index, moon phase, sunlight, heat index, indoor temperature, and time/date.

5.2. Interpreting Weather Data

The console provides intuitive icons and numerical values for easy data interpretation. Refer to the full manual for detailed explanations of each parameter and how to navigate through historical data or settings.

6. Maintenance

6.1. Battery Replacement

The outdoor multi-sensor requires 3 AA batteries, which typically last up to 12 months. Replace them annually or when the low battery indicator appears on the display console. The indoor sensor also requires batteries (type not specified, assume AA or AAA based on common devices).

6.2. Cleaning

Periodically clean the rain collector funnel and wind cups of the outdoor sensor to prevent debris buildup that could affect accuracy. Use a soft, damp cloth for the display console.

6.3. Sensor Placement

Ensure the outdoor sensor remains in an unobstructed location for accurate readings. Re-evaluate its position if you notice inconsistent data, especially for wind speed and direction.

7. Troubleshooting

Problem	Possible Cause	Solution
No outdoor data on display.	Low or dead batteries in outdoor sensor; sensor out of range; interference.	Replace batteries. Move sensor closer to console. Check for obstructions. Perform a sensor reset.
Inaccurate wind speed/direction.	Obstructions near sensor; sensor not level.	Relocate sensor to an open area. Ensure sensor is mounted level. Clean wind cups/vane.
Inaccurate rain readings.	Rain collector blocked by debris.	Clean the rain collector funnel.
WiFi connection issues.	Incorrect WiFi password; 5GHz network used; router too far.	Ensure correct 2.4 GHz WiFi network and password. Move console closer to router. Reset WiFi settings on console.
Display console not turning on.	Power adapter not connected or faulty.	Check power adapter connection. Try a different power outlet.

If problems persist, please contact customer support for assistance.

8. Specifications

Feature	Detail
Model Number	FT0300
Display Screen Size	10.2 inches (color LCD)
Product Dimensions (L x W x H)	21.5 x 2.2 x 15.8 cm; 1.01 kg
Power Source (Outdoor Sensor)	Solar powered with 3 AA batteries (not included)
Power Source (Display Console)	AC Power Adapter
Connectivity Technology	Wi-Fi (2.4 GHz), 433 MHz wireless for sensors
Wireless Range	Up to 100 meters (328 feet) in open field
Material	Acrylonitrile Butadiene Styrene (ABS)
Special Features	Alarm, Customizable Alerts, Clock, Adjustable Brightness, Wireless
Recommended Uses	Library, Office, Garden, Laboratory, Home, Restaurant

Feature	Detail
Specific Uses	Date, Humidity, Moon Phase, Pressure, Precipitation

9. Warranty and Support

Sainlogic products are designed for reliability and performance. For warranty information, please refer to the documentation included with your purchase or visit the official Sainlogic website. If you encounter any issues or require technical assistance, please contact Sainlogic customer support directly. They can provide guidance on troubleshooting and potential replacements.

Note: In some regions, electronic products may have a statutory warranty period (e.g., 2 years in Belgium). Please retain your proof of purchase for warranty claims.

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