

Sainlogic WS3500

Sainlogic Professional WiFi Weather Station

Model: WS3500

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Sainlogic Professional WiFi Weather Station. This 7-in-1 weather station is designed to provide accurate, real-time weather data for your home and garden, with convenient remote monitoring via a mobile application and integration with Weather Underground.

2. KEY FEATURES

- **Stable WiFi Connectivity:** Effortless connection via stable 2.4 GHz WiFi for uninterrupted data streaming.
- **App Integration:** Monitor real-time weather conditions remotely using the WSView Plus App and synchronize data with Weather Underground.
- **Large 7.33" Display:** A bright, easy-to-read display with an intuitive layout, large text, and clear symbols for quick data assessment.
- **7-in-1 Outdoor Sensor:** Comprehensive sensor array including a rain gauge, solar panel, thermo-hygro sensor, UV/light sensor, anemometer, wind vane, and spirit level.
- **Accurate Measurements:** Provides precise data for temperature (-40°F to +140°F with $\pm 1.8^\circ\text{F}$ accuracy), humidity (10% to 99% with $\pm 5\%$ accuracy), and precipitation (0-9999 mm).
- **Easy Setup & Installation:** Designed for straightforward installation and wireless synchronization between the outdoor sensor and indoor display.

3. PACKAGE CONTENTS

Please ensure all components are present before proceeding with the installation.

- Indoor Display Console

- 7-in-1 Outdoor Sensor Array
- Mounting Bracket
- Mounting Mast (300 x 30 x 20 mm)
- Screws and Nuts for Mounting
- Power Adapter for Display Console
- User Manual (this document)

Note: Mast holder and batteries (3x AA for display, 2x AA for outdoor sensor) are not included and must be purchased separately.



Figure 3.1: Overview of the weather station components and their approximate dimensions.

4. PRODUCT OVERVIEW

The Sainlogic Professional WiFi Weather Station consists of two main parts: the indoor display console and the outdoor 7-in-1 sensor array.

4.1. Indoor Display Console

The indoor display console features a large 7.33-inch LCD screen that presents all collected weather data in a clear, organized manner. It shows indoor and outdoor temperature and humidity, wind speed and direction, rainfall, UV index, light intensity, atmospheric pressure, time, date, and moon phase. The display can be powered by the included AC adapter or 3x AA batteries (not included).

EXAKTE MESSWERTE IM AUßENBEREICH



Figure 4.1: The indoor display console showing real-time weather data.



Figure 4.2: Detailed view of the large and bright LCD display.

4.2. Outdoor 7-in-1 Sensor Array

The robust outdoor sensor array collects comprehensive weather data. It includes:

- **Rain Collector:** Measures precipitation.
- **Solar Panel:** Powers the sensor and charges internal batteries (if applicable).
- **Thermo-Hygrometer:** Measures outdoor temperature and humidity.
- **UV/Light Sensor:** Detects UV index and light intensity.
- **Anemometer:** Measures wind speed.
- **Wind Vane:** Determines wind direction.
- **Spirit Level:** Aids in proper horizontal installation.



Figure 4.3: Labeled components of the outdoor 7-in-1 sensor array.

5. SETUP

5.1. Outdoor Sensor Installation

Proper placement of the outdoor sensor is crucial for accurate readings.

1. **Choose a Location:** Select an open area free from obstructions (trees, buildings) that could block wind or rain, or affect temperature readings. Ideal locations include backyards, farms, rooftops, or sheds.
2. **Assemble the Sensor:** Attach the sensor array to the mounting mast using the provided screws and nuts.
3. **Mount the Sensor:** Secure the mounting mast to a sturdy pole or surface using the mounting bracket. Ensure the sensor is level using the built-in spirit level.
4. **Orient the Wind Vane:** Point the wind vane's 'N' (North) indicator towards true North for accurate wind direction readings.
5. **Install Batteries:** Insert 2x AA batteries (not included) into the battery compartment of the outdoor sensor.

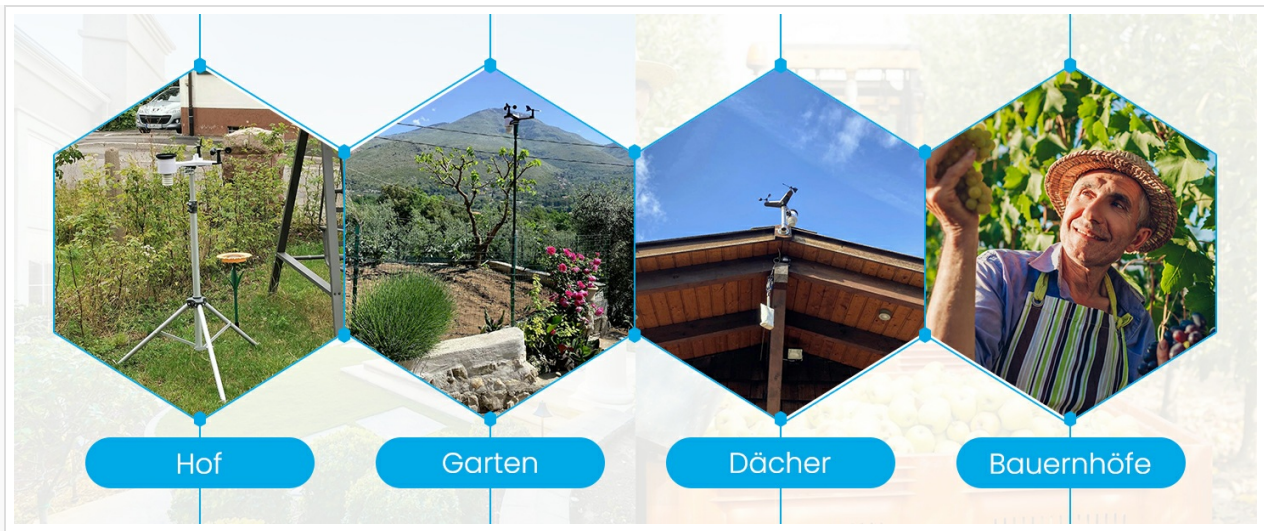


Figure 5.1: Recommended installation locations for the outdoor sensor.

5.2. Indoor Display Setup

1. **Power the Display:** Insert 3x AA batteries (not included) into the battery compartment on the back of the display console, or connect the included power adapter to the display and a power outlet.
2. **Initial Synchronization:** The display will automatically search for and connect to the outdoor sensor. This may take a few minutes. Ensure the sensor is within range (up to 100 meters in open areas).



Figure 5.2: Power supply options for the display console and outdoor sensor.

5.3. WiFi and App Connection

To access your weather data remotely and integrate with Weather Underground, follow these steps:

1. **Download the App:** Search for "WSView Plus" in your mobile device's app store (Google Play or Apple App Store) and install it.
2. **Connect to WiFi:** Follow the in-app instructions to connect your weather station to your home's 2.4 GHz WiFi network.
3. **Register with Weather Underground:** Create an account on Weather Underground (www.wunderground.com) and register your weather station. The app will guide you through linking your station to your Weather Underground account.
4. **Remote Monitoring:** Once connected, you can view your weather data from anywhere via the WSView Plus app or the Weather Underground website.

Intelligente APP-Steuerung für ein besseres Erlebnis



Figure 5.3: Intelligent APP control for real-time data updates.

Einfacher Zugriff Auf Die Größte Wetterdatenbank

Durch den Zugriff auf Weatherunderground über WLAN erhalten Sie jederzeit Echtzeit- und genaue Wetterinformationen, die auf Ihren gängigen Geräten angezeigt werden können.



Figure 5.4: Easy access to the largest weather database via Weather Underground.

6. OPERATING INSTRUCTIONS

6.1. Reading the Display

The 7.33" display provides a comprehensive overview of current and historical weather data.

- **Time & Date:** Located at the top left.
- **Indoor/Outdoor Temperature & Humidity:** Clearly displayed in separate sections.
- **Atmospheric Pressure:** Shows current pressure and historical trend.
- **Wind Speed & Direction:** Digital readout and a compass rose for direction.
- **Rainfall:** Displays daily, weekly, or monthly precipitation.
- **UV Index & Light Intensity:** Provides readings for solar radiation.
- **Weather Forecast:** Icons indicate predicted weather conditions (sunny, partly cloudy, cloudy, rainy, stormy, snowy).
- **Alarm Function:** The display includes an alarm feature for various weather parameters.



Figure 6.1: The display provides all weather data at a glance.

6.2. Adjustable Brightness

The high-resolution LCD screen offers 3 levels of adjustable brightness. This feature allows you to optimize visibility in various lighting conditions and conserve power. Use the 'LIGHT/SNOOZE' button on the display to cycle through brightness settings.

Einstellbare Bildschirmhelligkeit

Der hochauflösende LCD-Bildschirm ist in 3 Helligkeitsstufen erhältlich und bleibt konstant beleuchtet, wenn er über das Netzteil mit Strom versorgt wird.



Figure 6.2: Adjustable screen brightness settings.

6.3. Using the Mobile App

The WSView Plus app allows you to monitor your personal weather data remotely. You can view real-time conditions, access historical data, and receive alerts directly on your phone. Ensure your station is connected to WiFi and linked to your app account for full functionality.

7. MAINTENANCE

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

- **Clean the Rain Collector:** Periodically check and clean the rain collector funnel to remove leaves, insects, or debris that could obstruct accurate rainfall measurement.
- **Inspect Sensors:** Ensure the wind cups and wind vane spin freely. Remove any obstructions.
- **Battery Replacement:** Replace batteries in the indoor display (3x AA) and outdoor sensor (2x AA) as needed, typically when the low battery indicator appears on the display.
- **General Cleaning:** Wipe down the display and outdoor sensor with a soft, damp cloth. Avoid abrasive cleaners or solvents.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No data on display / Outdoor sensor not connecting	Batteries low or dead; Sensor out of range; Interference.	Replace batteries in both units. Move display closer to sensor. Check for strong interference sources (e.g., other wireless devices). Re-synchronize units.
Inaccurate temperature/humidity readings	Sensor exposed to direct sunlight or heat source; Sensor dirty.	Relocate sensor to a shaded area. Clean the sensor housing.
Incorrect wind speed/direction	Obstructions blocking wind cups/vane; Sensor not oriented correctly.	Clear any debris from wind cups/vane. Ensure the 'N' on the wind vane points to true North.

Problem	Possible Cause	Solution
Inaccurate rainfall readings	Rain collector blocked by debris.	Clean the rain collector funnel.
WiFi connection issues	Incorrect WiFi password; Not 2.4 GHz network; Router too far.	Double-check WiFi password. Ensure you are connecting to a 2.4 GHz network. Move router closer or use a WiFi extender. Reset WiFi settings on the display.

9. SPECIFICATIONS

Feature	Detail
Product Dimensions	17.27 x 36.83 x 41.4 cm; 2 Kilograms
Model Number	WS3500
Material Type	Plastic
Power Source	Battery Powered (Display: 3x AA, Outdoor Sensor: 2x AA) / AC Adapter (Display)
Display Size	7.33 inches
Temperature Range	-40°F to +140°F (-40°C to +60°C)
Temperature Accuracy	±1.8°F (±1°C)
Humidity Range	10% to 99% RH
Humidity Accuracy	±5% RH
Rainfall Range	0-9999 mm
Wireless Transmission Range	Up to 100 meters (330 feet) in open areas
Special Features	Alarm, Adjustable Brightness, Wireless, Portable
Recommended Uses	Office, Garden, Home
Specific Uses	Date, Moon Phase, Precipitation, Temperature, Wind Speed

10. WARRANTY AND SUPPORT

Sainlogic products are designed for reliability and performance. For any technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Sainlogic customer support. You can find contact information and additional resources on the official Sainlogic website or through your purchase platform. For more information, visit the [Sainlogic Brand Store](#).

