Logia LOWSC710SWB

Logia 18-in-1 Wi-Fi Weather Station User Manual

Model: LOWSC710SWB

1. Introduction

The Logia 18-in-1 Wi-Fi Weather Station provides comprehensive real-time weather and precipitation data directly from your home and backyard. This system includes a 7-in-1 solar sensor array for precise temperature, humidity, wind, rain, UV, and solar readings, along with a full-color indoor LED display console. It offers advanced features such as Wi-Fi connectivity for integration with live weather servers like Weather Underground and Weathercloud, allowing you to track current data and view historical trends on your smartphone, PC, or tablet.

Figure 1: Logia 18-in-1 Wi-Fi Weather Station components.

2. Setup

2.1 Package Contents

Before beginning installation, ensure all components are present:

- Outdoor 7-in-1 Sensor Array
- Indoor Temp/Humidity Sensor
- LCD Console
- Backup battery (1 CR2)
- Power adapter
- Mounting Bracket and Screws

2.2 Outdoor Sensor Installation

The outdoor 7-in-1 sensor array measures wind speed and direction, temperature, humidity, rain, UV, and solar intensity. It should be mounted in an open area, free from obstructions, to ensure accurate readings.

Position the unit outside on a pole or railing, ideally at least 6.6 feet (2 meters) off the ground, and up to 492 feet (150 meters) away from the indoor console.

Figure 2: Outdoor 7-in-1 Sensor Array components.

1. Insert 3 AA batteries (not included) into the outdoor sensor. The integrated solar panel will extend battery life up to 2.5 years.
2. Use the included mounting bracket and screws to secure the sensor to a suitable pole or railing. Ensure the bubble level on the sensor is centered for accurate rain and wind measurements.
3. Orient the wind direction vane correctly, typically pointing North.

Figure 3: Proper mounting of the outdoor sensor.

2.3 Indoor Console Setup

The indoor console displays all collected weather data. It can be placed on a tabletop or bedside.

1. Plug in the power adapter to the LCD Console.
2. Insert the included CR2 backup battery into the console.
3. The console will automatically begin searching for the outdoor sensor and the indoor temperature/humidity sensor. Allow a few moments for them to pair.

Figure 4: Indoor console and sensors in a home environment.

2.4 Wi-Fi Connectivity

The smart model automatically transmits data via Wi-Fi for web and mobile app integration. This allows you to connect to services like Weather Underground and Weathercloud.

1. Ensure your console is powered on.
2. Press and hold the Wi-Fi button on the back of the console for 6 seconds until the display shows "AP". This puts the console into Access Point (AP) mode.
3. On your smartphone or computer, connect to the Wi-Fi network named "PWS..." (the console's temporary network).
4. Open a web browser and navigate to192.168.1.1.
5. A setup form will appear. Select your home Wi-Fi network's SSID (Network Name) and enter its password.
6. You can also enter your Weather Underground or Weathercloud account information (Station ID and Key) and set your time zone. It is recommended to set up your Weather Underground account beforehand.
7. Click "Submit". The console will exit AP mode and attempt to connect to your home Wi-Fi. A solid Wi-Fi icon on the display indicates a successful connection.

Figure 5: Syncing with live weather servers.

3. Operating the Console

The full-color LED display console provides a comprehensive overview of current weather conditions and forecasts.

Figure 6: Display console showing 7-in-1 wireless weather monitors.

3.1 Display Overview

The console displays a variety of data points, including:

- Current Wind Speed & Direction
- Outdoor & Indoor Temperature/Humidity
- Barometric Pressure
- Rainfall Rate and Total
- UV & Solar Exposure
- Weather Index (Feels Like, Heat Index, Wind Chill, Dew Point)
- 12/24-Hour Forecasts
- Sunrise & Sunset Times
- Moon Phase
- Day/Date & Time

Use the simple touch button controls on the console to navigate through various data screens and settings options. The display features a dimmable backlight for comfortable viewing.

3.2 Alarm Functions and Alerts

The weather station includes an alarm function with ice and other extreme weather notifications. You can set alerts for:

- High/Low Temperature (Indoor/Outdoor)
- High/Low Humidity (Indoor/Outdoor)
- High Wind Speeds
- Extreme Barometric Pressure Drop
- High Heat Index
- Low Wind Chill
- High/Low Dew Point

Figure 7: Alarm function and weather alerts.

4. Maintenance

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

4.1 Sensor Cleaning

- **Rain Collector:** Periodically check and clean the rain collector funnel to remove leaves, insects, or debris that could obstruct the tipping bucket mechanism.
- **Wind Vane and Anemometer:** Ensure the wind vane and anemometer cups spin freely. Remove any obstructions like spiderwebs or dirt.
- **Radiation Shield:** Keep the radiation shield (white plates around the temperature/humidity sensor) clean to allow proper airflow and prevent inaccurate temperature readings.

4.2 Battery Replacement

- **Outdoor Sensor:** Replace the 3 AA batteries when the low battery indicator appears on the console. Even with the solar panel, batteries will eventually need replacement.
- **Indoor Console:** The console uses a CR2 battery for backup. Replace it when necessary to maintain settings during power outages.

5. Troubleshooting

If you encounter issues with your Logia Weather Station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No data from outdoor sensor	Batteries are low or dead; sensor out of range; interference.	Replace batteries in the outdoor sensor. Ensure the sensor is within 492 feet (150m) of the console and there are no major obstructions. Re-pair the sensor if necessary (refer to manual for specific steps).
Wi-Fi connection fails	Incorrect Wi-Fi password/SSID; console too far from router; network issues.	Repeat the Wi-Fi setup process (Section 2.4). Double-check that you are entering your home network's SSID (Network Name) and password correctly. Ensure the console is within range of your Wi-Fi router.
Inaccurate temperature/humidity readings	Sensor exposed to direct sunlight/heat source; dirty radiation shield.	Ensure the outdoor sensor is mounted in a location that minimizes direct sunlight exposure, especially on the radiation shield. Clean the radiation shield regularly.
Rainfall not registering or inaccurate	Rain collector blocked; sensor not level.	Clear any debris from the rain collector funnel. Verify the outdoor sensor is perfectly level using the built-in bubble level.

6. Specifications

Feature	Detail
Brand	Logia
Model Number	LOWSC710SWB

Feature	Detail
Connectivity Technology	Wi-Fi, Radio Frequency (RF)
Frequency	915 MHz
Power Source	Corded Electric (Console), Solar Panel & 3 AA Batteries (Outdoor Sensor), 1 CR2 Battery (Indoor Sensor & Console Backup)
Temperature Accuracy	0.5 °C
Product Dimensions	6.22"D x 15.35"W x 13.77"H
Material	Plastic
Display Type	LED
Item Weight	4.75 pounds
UPC	843812143875

7. Warranty and Support

For detailed warranty information and technical support, please refer to the official Logia website or the full user manual provided with your product. A digital version of the user manual can often be found on the product's support page or by searching for the model number on the manufacturer's website.
You can also find a PDF version of the user manualhere.