SQECH SWS-01-US

SQECH Weather Station SWS-01-US Instruction Manual

Model: **SWS-01-US** | Brand: **SQECH**

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your SQECH SWS-01-US Wireless Indoor Outdoor Weather Station. This device offers comprehensive weather monitoring with a 7-in-1 outdoor sensor and a multi-function indoor display.



Image 1.1: The SQECH SWS-01-US Weather Station, showing both the outdoor sensor array and the indoor display console.

2. What's in the Box

Please verify that all components are present before beginning installation:

- SQECH SWS-01 Weather Station Console × 1
- Integrated Outdoor Transmitter (7-in-1 Sensor) × 1
- User Manual × 1
- Power Adapter × 1
- Installation Materials (mounting rod, bracket, screws)

Note: AA and AAA Batteries are not included and must be purchased separately.



Image 2.1: All components included in the SQECH Weather Station package.

3. Setup

3.1 Outdoor Sensor Assembly

The 7-in-1 outdoor sensor integrates multiple measurement components. Ensure all parts are securely attached as shown in the diagrams.

- **Rain Collector:** Gathers precipitation for measurement.
- **Antenna:** Transmits data wirelessly to the indoor console.
- **Solar Panel:** Provides auxiliary power to the sensor.
- **Wind Vane:** Measures wind direction.
- **Wind Cups:** Measure wind speed.
- **Level Indicator:** Ensures the sensor is mounted horizontally for accurate readings.
- **Thermo-Hygrometer Radiation Shield:** Protects temperature and humidity sensors from direct sunlight and rain.



Image 3.1: Detailed view of the 7-in-1 outdoor sensor, highlighting its various components.



Image 3.2: Close-up views of the solar panel, wind cups, rain collector, and thermo-hygrometer radiation shield.

3.2 Indoor Console Setup

1. **Power Connection:** Connect the provided power adapter to the console and a power outlet.
2. **Battery Installation:** For backup power during outages, install 3xAAA batteries (not included) into the battery compartment on the back of the console.
3. **Stand Adjustment:** Adjust the integrated stand to the lowest position for optimal viewing when placed on a table.

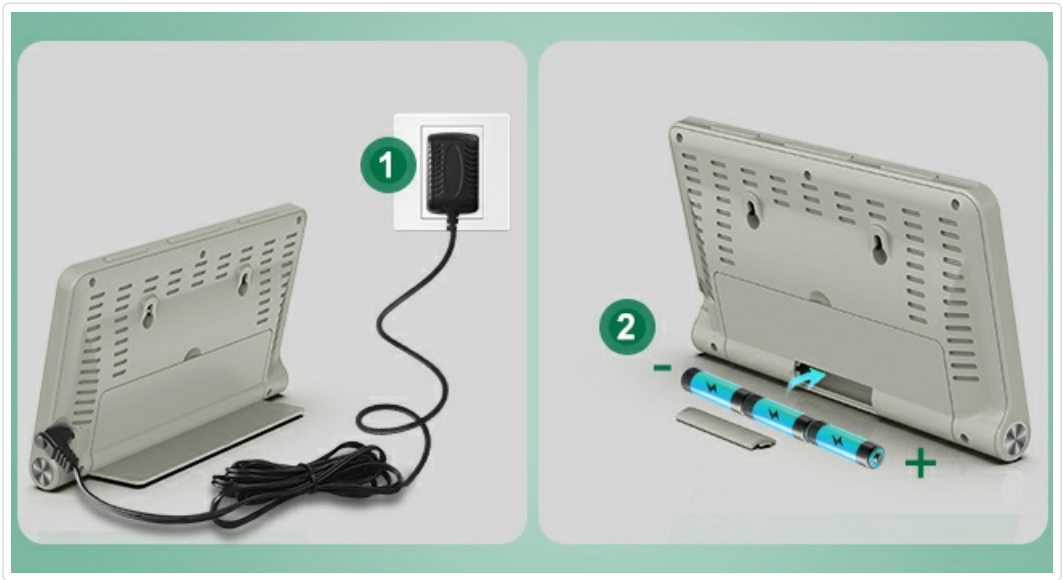


Image 3.3: The indoor console showing the power adapter connection and battery compartment.

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Video 3.1: Demonstrates adjusting the indoor console stand for optimal viewing.

3.3 Mounting the Outdoor Sensor

The outdoor sensor can be mounted in various ways using the provided multi-function mounting rod and bracket. Ensure the sensor is installed in an open area, away from obstructions, to obtain accurate readings for wind, rain, and temperature.

- **Mount on Top:** Secure the sensor to the top of a pole or flat surface.
- **Mount on Side:** Attach the sensor to the side of a wall or vertical post.
- **Mount on a Pole:** Use the bracket to secure the sensor to a mast or pole.

The maximum transmission distance between the console and transmitter is 328 feet (100m).



Image 3.4: Illustrates the wireless transmission range and various mounting configurations for the outdoor sensor.

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Video 3.2: A general overview of the SQECH Weather Station, including assembly and installation.

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Video 3.3: A comprehensive guide to setting up and operating the SQECH SWS-01 Weather Station.

4. Operating Instructions

4.1 Display Overview

The 7.4-inch HD large color screen displays 12 types of information simultaneously for easy monitoring. The console can be placed on a desktop or mounted on a wall.



Image 4.1: The indoor console's large HD color screen, showing various weather data and a low voltage warning for the outdoor sensor.



Image 4.2: The indoor console can be conveniently placed on a desktop or mounted on a wall.

4.2 Reading Weather Data

The display provides real-time and historical data for various weather parameters:

- **Wind Speed and Direction:** Current wind conditions.
- **Rainfall:** Hourly, 24-hour, weekly, monthly, and total precipitation.
- **Weather Forecast:** Predictive icons for sunny, partly cloudy, cloudy, and rainy conditions.
- **Air Pressure:** Absolute and relative barometric pressure.
- **Time and Date:** Current time and calendar information.
- **Moon Phase:** Displays the current lunar phase.
- **Indoor and Outdoor Temperature and Humidity:** Current readings for both environments.
- **Feels Like Temperature:** Perceived outdoor temperature.
- **Dew Point Temperature:** Indicates the temperature at which air becomes saturated with water vapor.

4.3 Alarm Settings

The console features 13 customizable alarm settings to alert you to specific weather conditions:

1. Time (Alarm 1 and Alarm 2)
2. Wind Gust
3. Wind Average
4. Outdoor Temperature
5. Outdoor Humidity
6. Outdoor Feels Like Temperature
7. Outdoor Dew Point
8. Hourly Rainfall
9. 24 Hour Rainfall
10. Absolute Pressure
11. Relative Pressure
12. Indoor Temperature
13. Indoor Humidity

4.4 Brightness Adjustment

The display offers 3 levels of adjustable brightness to suit different lighting conditions and preferences.



Image 4.3: The indoor console display illustrating the 13 alarm settings and the 3-level brightness adjustment feature.

5. Maintenance

5.1 Outdoor Sensor

- **Cleaning the Rain Gauge:** Periodically check and clean the rain collector funnel to prevent blockages from debris or insects, which can affect rainfall accuracy.
- **Battery Check:** Although the solar panel provides auxiliary power, regularly check the batteries in the outdoor sensor, especially after prolonged periods of low sunlight or extreme weather, to ensure continuous operation.
- **Clear Obstructions:** Ensure no new obstructions (e.g., growing tree branches) are blocking the wind sensors or solar panel.

5.2 Indoor Console

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Avoid abrasive cleaners or solvents.
- **Battery Replacement:** If using backup batteries, replace them as needed to prevent data loss during power interruptions.

6. Troubleshooting

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

- **No Signal from Outdoor Sensor:**
  - Ensure the outdoor sensor is within the 328 feet (100m) transmission range of the indoor console.
  - Check that the outdoor sensor has working batteries and the solar panel is receiving adequate sunlight.
  - Minimize large metal obstructions between the sensor and console.
  - Try re-pairing the outdoor sensor with the indoor console (refer to the full user manual for specific pairing steps).
- **Inaccurate Readings:**
  - Verify the outdoor sensor is mounted level using the built-in level indicator.
  - Ensure the rain gauge is clear of debris.
  - Confirm the wind cups and wind vane rotate freely.
  - Avoid placing the outdoor sensor near heat sources or reflective surfaces that could skew temperature readings.
- **Display Not Working:**
  - Check the power adapter connection and ensure it is plugged into a working outlet.
  - If using backup batteries, ensure they are correctly installed and not depleted.

7. Specifications

Feature	Detail
Model Number	SWS-01-US
Brand	SQECH
Power Source	Battery Powered (Outdoor Sensor), Power Adapter (Indoor Console)
Connectivity Technology	Wireless

Feature	Detail
Special Features	Adjustable Brightness, Alarm, Clock, Large Display, Wireless
Recommended Uses	Garden, Home
Specific Uses	Date, Moon Phase, Pressure, Rain Rate, Temperature
Material	Plastic
Package Dimensions	15.27 x 11.97 x 7.76 inches
Item Weight	3.8 Pounds

8. Warranty and Support

SQECH provides lifetime technical support for the SWS-01-US Weather Station. If you have any questions or require assistance, please contact us. We are committed to replying as soon as possible to address your concerns.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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