

[Manuals.plus](#) /

› [Moongiantgo](#) /

› Moongiantgo JLZ 143 Weather Station User Manual - Outdoor Weather Monitoring System

Moongiantgo JLZ 143

Moongiantgo JLZ 143 Weather Station User Manual

Comprehensive Outdoor Weather Monitoring System

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Moongiantgo JLZ 143 Weather Station. This device is designed for comprehensive outdoor weather monitoring, providing accurate data on various environmental parameters.

2. PRODUCT OVERVIEW

The Moongiantgo JLZ 143 Weather Station is a compact and lightweight system that measures key weather data. It consists of an outdoor sensor unit and an indoor display console. The outdoor sensor unit is equipped with a solar panel for power and measures wind speed, wind direction, temperature, humidity, rainfall, UV index, and illuminance. The indoor console displays this data in real-time and supports WIFI connectivity for data upload to dedicated websites for graphical analysis.

見えやすい大型ディスプレイ



Figure 2.1: Indoor Display Console. This image shows the indoor display console, which presents outdoor temperature, humidity, wind speed, wind direction, rainfall, UV index, illuminance, and barometric pressure. It also shows indoor temperature and humidity.

気象センサー



Figure 2.2: Outdoor Sensor Unit. This image illustrates the outdoor sensor unit, highlighting its components such as the wind cups, wind vane, rain collector, UV/illuminance sensor, and solar panel.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.



Figure 3.1: Package Contents. This image displays all items included in the package: the outdoor sensor/transmitter, indoor console receiver, AC adapter, thermo-hygrometer sensor, base, pole, fixing plate, nuts, bolts, and instruction manual.

- Outdoor Sensor Unit (Transmitter)
- Indoor Display Console (Receiver)
- AC Adapter for Console
- Thermo-Hygrometer Sensor
- Mounting Base
- Mounting Pole
- Fixing Plate
- Nuts and Bolts for Assembly
- Instruction Manual

4. SETUP

4.1 Powering the Console

The indoor display console can be powered by the included AC adapter or by 3 AAA batteries (not included). Using the AC adapter ensures the display remains continuously lit. If using batteries, the display may dim or turn off to conserve power.

電源

コンソール受信機

- ACアダプター
- 単四電池*3
(付属しません)





温湿度センサー

- 単四電池2個

天気センサー

- ソラーパネル
- 単三電池*3
(付属しません)



Figure 4.1: Power Supply. This image shows the power options for the console (AC adapter or 3 AAA batteries), the thermo-hygrometer sensor (2 AAA batteries), and the weather sensor (solar panel or 3 AA batteries).

4.2 Installing the Outdoor Sensor Unit

The outdoor sensor unit is designed for easy installation. It can be mounted horizontally or vertically on a flat surface or pipe. Ensure the unit is placed in an open area, away from obstructions, to allow for accurate wind and rain measurements. The integrated solar panel will power the sensor, but it also requires 3 AA batteries (not included) as a backup.

気象センサー



Figure 4.2: Outdoor Sensor Installation. This image details the outdoor sensor unit, showing its components (level, UV/illuminance sensor, wind cups, solar panel, wind vane, rain gauge, thermo-hygrometer/radiation shield) and two installation methods: horizontal and vertical mounting.

4.3 Initial Synchronization

After powering both the console and the outdoor sensor, they should automatically synchronize. If synchronization does not occur, refer to the troubleshooting section.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The console features a large, easy-to-read display that shows various weather parameters. These include outdoor temperature, humidity, wind speed, wind direction, rainfall, UV index, illuminance, barometric pressure, and indoor temperature/humidity.



Figure 5.1: Console Display Information. This diagram highlights the various weather data points shown on the console, including outdoor temperature, indoor humidity, rainfall, indoor temperature/humidity, weather forecast, UV index, illuminance, moon phase, wind direction, perceived temperature, wind speed, barometric pressure, sensor temperature, and heat index.

5.2 Button Functions

The console has several buttons for setting and navigating the display:

- **SET/MODE:** Used to enter settings mode and cycle through display modes.
- **ALARM:** Activates or deactivates the alarm function and sets alarm parameters.
- **CHANNEL +/-:** Used to switch between different sensor channels (if multiple sensors are connected) or adjust values during settings.
- **SNOOZE:** Silences the alarm temporarily.

Your browser does not support the video tag.

Video 5.1: Product Overview and Button Functions. This video demonstrates the overall appearance of the weather station, including the outdoor sensor and indoor console, and briefly shows the buttons on the side of the console for setting and mode selection.

6. WIFI CONNECTIVITY

The weather station supports 2.4GHz WIFI connectivity. This feature allows you to upload your weather data to dedicated online platforms like Weather Underground or Weathercloud for detailed analysis and historical tracking. Data can be viewed in graphical format on these websites or through their respective applications.

ワイヤレスWIFIコンソール



Figure 6.1: WIFI Connection. This image illustrates the WIFI connectivity feature, showing the weather station console wirelessly connected to a router, with weather data accessible on a computer and mobile device through Weather Underground and Weathercloud platforms.

6.1 Connecting to WIFI

1. Ensure your console is powered on.
2. Press and hold the "Min/Max" button until the WIFI icon on the display starts flashing.
3. Follow the instructions in the dedicated app or website to complete the connection process.

7. ALARM FUNCTION

The weather station includes an alarm function that allows you to set upper and lower limits for various weather parameters such as temperature, humidity, wind speed, and rainfall. When a measured value exceeds or falls below your set limits, an icon on the display will flash, and an audible alarm will sound to alert you.

7.1 Setting Alarms

1. Press the "ALARM" button to enter alarm setting mode.
2. Use the "CHANNEL +/-" buttons to select the parameter you wish to set an alarm for (e.g., temperature, humidity).
3. Press "SET/MODE" to confirm your selection and then use "CHANNEL +/-" to adjust the upper or lower limit.
4. Repeat for other parameters as needed.
5. Press "ALARM" again to exit alarm setting mode.

8. WEATHER FORECAST

The weather station provides a 24-48 hour weather forecast based on changes in barometric pressure. The display will show icons representing various weather conditions such as sunny, partly cloudy, cloudy, and rainy.



Figure 8.1: 24-48 Hour Weather Forecast. This image shows the weather forecast feature, displaying icons for sunny, partly cloudy, cloudy, and rainy conditions, indicating the station's ability to predict weather trends based on atmospheric pressure changes.

9. MAINTENANCE

To ensure optimal performance and longevity of your weather station, regular maintenance is recommended.

- **Cleaning:** Periodically clean the outdoor sensor unit, especially the rain collector and solar panel, to remove dirt, debris, or insects that may affect accuracy. Use a soft, damp cloth.
- **Battery Replacement:** Replace batteries in the indoor console and outdoor sensor unit as needed. Low battery indicators will appear on the display.
- **Sensor Placement:** Ensure the outdoor sensor remains securely mounted and free from new obstructions (e.g., growing foliage) that could interfere with measurements.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No outdoor data on console	◦ Outdoor sensor batteries low or dead. ◦ Console and sensor not synchronized. ◦ Distance too far or obstructions.	◦ Replace outdoor sensor batteries. ◦ Restart both units and attempt re-synchronization. ◦ Reduce distance between units or remove obstructions. Max communication range is 100m (line of sight).
WIFI connection fails	◦ Incorrect WIFI password. ◦ Console too far from router. ◦ Router not 2.4GHz compatible.	◦ Verify WIFI password. ◦ Move console closer to the WIFI router. ◦ Ensure your router supports 2.4GHz WIFI.
Inaccurate rainfall data	◦ Rain collector blocked by debris. ◦ Sensor not level.	◦ Clean the rain collector. ◦ Ensure the outdoor sensor unit is perfectly level using the built-in bubble level.

最大通信距離 100m (見通し距離)



Figure 10.1: Maximum Communication Distance. This image illustrates the effective wireless communication range of up to 100 meters (line of sight) between the outdoor sensor and the indoor display console.

11. SPECIFICATIONS

Parameter	Value
Brand	Moongiantgo
Model Number	JLZ 143
Recommended Use	Home, Outdoor Weather Monitoring
Power Source (Console)	AC Adapter, 3 x AAA Batteries (not included)
Power Source (Outdoor Sensor)	Solar Panel, 3 x AA Batteries (not included)

Parameter	Value
Temperature Accuracy	±1 °C
Upper Temperature Rating	60 °C
Display Type	Digital Display
Special Features	Large Display, WIFI Connectivity, Alarm Function, Solar Powered Sensor
Color	White (Sensor), Black (Console)
Frequency	0.06 Hz

12. WARRANTY AND SUPPORT

Moongiantgo products come with a 1-year warranty. For any questions or support inquiries regarding your weather station, please contact Moongiantgo customer service through your purchase platform. When contacting support, please provide your order details and the product model number (JLZ 143).

For order-related questions, please navigate to your order history, select the product, and contact the seller (Moongiantgo 2020JP) via the "Ask a question" option.

For receipt issuance, please check the "Receipts, etc." section at the top right of your order details page.