

MASHI B0FL1SWK14

MASHI Weather Station Wireless Indoor Outdoor Thermometer

Model: B0FL1SWK14

1. INTRODUCTION

Thank you for choosing the MASHI Wireless Indoor Outdoor Weather Station. This device provides accurate indoor and outdoor temperature and humidity readings, a 12-24 hour weather forecast, time, date, barometric pressure, and moon phase information on a clear 8.8-inch HD display. This manual will guide you through the setup, operation, and maintenance of your new weather station.

Key Features:

- 8.8-inch HD Display: Large, clear digits for easy readability.
- Indoor/Outdoor Monitoring: Displays temperature and humidity for both environments.
- Advanced Weather Forecast: Predicts weather for the next 12-24 hours with 6 dynamic icons.
- Atomic Clock (WWVB): Automatically synchronizes time for accuracy, supports 4 time zones.
- Adjustable Brightness: 5 levels of display brightness with a Night Mode option.
- Multi-Channel Support: Connects up to 3 remote sensors (1 included).
- Barometric Pressure & Moon Phase: Additional environmental data.

What's Included:

- 1 x MASHI Weather Station Clock (Main Unit)
- 1 x Wireless Outdoor Sensor
- 1 x Lanyard (for outdoor sensor)
- 1 x Charging Adapter
- 1 x Type-C Power Cable
- 1 x User Manual

No Hassle to Obtain Accurate Time

The image compares two clock types for the MASHI Weather Station. On the left, the 'Atomic clock' section features a digital weather station display showing various metrics like temperature (70.8°F, 65°F), pressure (30.10 inHg), and humidity (79.6%, 48%). It includes a 'DST' icon and a blue button indicating an accuracy of '≈0s' and 'Automatic' time sync. In the center, a blue circle with 'VS.' separates the two sections. On the right, the 'Quartz clock' section shows a traditional analog clock face and a grey button indicating an accuracy of 'Up to 30s' and 'Manual' time sync.

Figure 1.1: Package Contents of the MASHI Weather Station.

2. SETUP GUIDE

2.1 Main Unit Power Supply:

The main weather station unit requires continuous power via the included 5V/1A adapter. It does not operate on batteries for its primary function.

1. Connect the Type-C power cable to the main unit's power port.
2. Plug the charging adapter into a standard wall outlet.
3. The display will illuminate, indicating power is supplied.

2.2 Outdoor Sensor Setup:

The wireless outdoor sensor operates on batteries and transmits data to the main unit.

1. Open the battery compartment on the back of the outdoor sensor.
2. Insert 2 x AAA batteries (not included), ensuring correct polarity.
3. Select a channel (1, 2, or 3) using the switch inside the battery compartment. If using only one sensor, select Channel 1.
4. Press the 'TX' button to transmit the signal.
5. Close the battery compartment.

2.3 Pairing the Sensor with the Main Unit:

1. Ensure both the main unit and the outdoor sensor are powered on.
2. The main unit will automatically search for the sensor signal. The outdoor temperature and humidity should appear on the display within a few minutes.
3. If the outdoor readings do not appear, press and hold the 'DOWN' button (with the Wi-Fi symbol) on the back of the main unit for 3 seconds to initiate a manual search.



Figure 2.1: Easy 4-Step Setup Process.



Figure 2.2: Powering the Main Unit and Outdoor Sensor.

3. OPERATING INSTRUCTIONS

3.1 Display Overview:

The 8.8-inch HD display provides a comprehensive view of weather and time information:

- **Top Left:** Wireless signal strength for outdoor sensor.
- **Left Side:** Weather forecast icons (sunny, partly cloudy, cloudy, rainy, heavy rain, snowy).
- **Center Top:** Day of the week, time, and date.
- **Center:** Indoor temperature and humidity.
- **Bottom Left:** Barometric pressure.
- **Bottom Center:** Moon phase.
- **Right Side:** Outdoor temperature and humidity.

Video 3.1: An overview of the MASHI Weather Station's 8.8-inch color display and its various functions, including weather forecast, temperature, humidity, and time.

3.2 Brightness Adjustment & Night Mode:

The display offers 5 levels of brightness (100%, 70%, 40%, 20%, 0% off) to suit your preference.

- Press the 'LIGHT' button on the back of the main unit to cycle through the brightness levels.
- To activate Night Mode, press and hold the 'LIGHT' button for 3 seconds. In Night Mode, the backlight will automatically turn off between 10:00 PM and 7:00 AM to prevent sleep disturbance.



Figure 3.1: Display Brightness Levels and Night Mode.

3.3 Time and Date Settings (Atomic Clock):

The built-in WWVB function automatically searches and updates the time daily for precise accuracy.

- The atomic clock automatically synchronizes at 1:00-5:00 AM.
- It supports 4 time zones: EST, CST, MST, PST. You can manually select your time zone using the 'SET' button.
- When the RCC signal is received, the backlight may temporarily turn off.
- Manual time setting is available if needed, by pressing and holding the 'SET' button.
- Switch between 12/24 hour format by pressing the 'UP' button.



Figure 3.2: Atomic Clock Synchronization.

3.4 Weather Forecast:

The weather station calculates a 12-24 hour forecast based on temperature, humidity, and barometric pressure data. It calibrates over 7-10 days for higher accuracy.

- The display shows 6 dynamic icons: sunny, partly cloudy, cloudy, rainy, heavy rain, snowy.

- These icons provide an intuitive visual of the predicted weather conditions.



Figure 3.3: Weather Forecast Icons.

3.5 Monitoring Multiple Sensors:

The main unit can connect to up to 3 remote sensors. If you have additional sensors (sold separately), ensure each is set to a different channel (1, 2, or 3).

- The main unit will cycle through the data from connected sensors.
- The transmission range for sensors is up to 330ft/100m in open areas.



Figure 3.4: Multi-Channel Sensor Monitoring.

4. PLACEMENT OPTIONS

The MASHI Weather Station offers versatile placement options for both the main unit and the outdoor sensor.

4.1 Main Unit Placement:

- **Tabletop:** Use the integrated 2-level adjustable desktop stand for stable placement on any flat surface.
- **Wall-Mounted:** The main unit has keyholes on the back for easy wall mounting.

4.2 Outdoor Sensor Placement:

- Mount the sensor vertically in a shaded area, away from direct sunlight and rain, to ensure accurate readings.
- Place it at least 3ft (1m) away from electronic devices that might interfere with the signal.
- Utilize the lanyard for hanging or the integrated mounting hole for screw attachment.

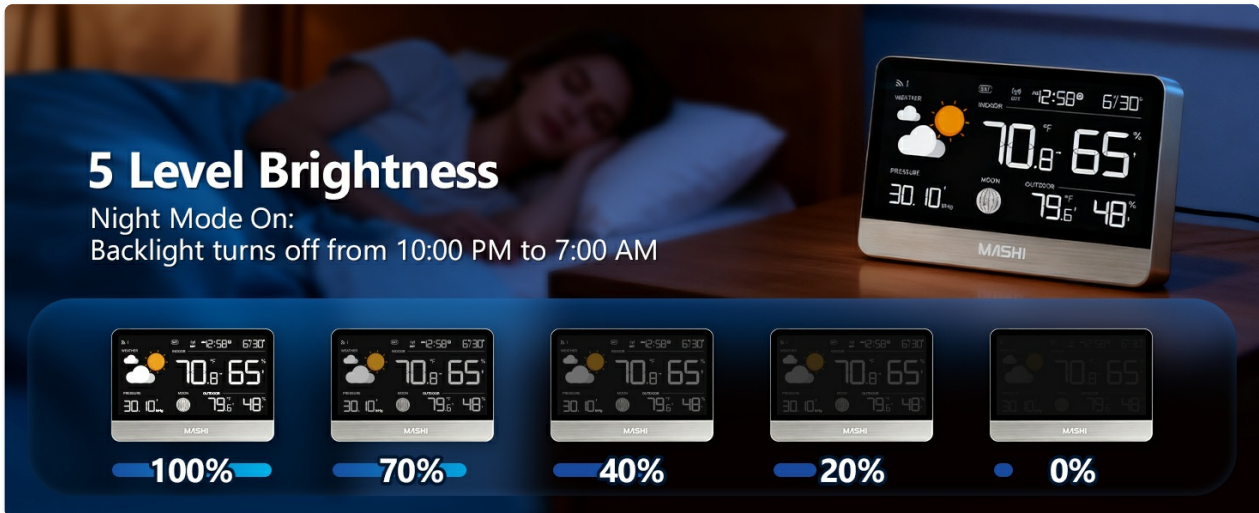


Figure 4.1: Main Unit Placement Options.



Figure 4.2: Correct Outdoor Sensor Placement.

5. MAINTENANCE

5.1 Battery Replacement (Outdoor Sensor):

The outdoor sensor has a low battery indicator on the main unit's display. When this indicator appears, replace the batteries promptly.

1. Open the battery compartment on the back of the sensor.
2. Remove the old AAA batteries.
3. Insert 2 new AAA batteries, observing correct polarity.
4. Close the battery compartment. The sensor will automatically re-pair with the main unit.

5.2 Cleaning:

- Wipe the display and unit surfaces with a soft, damp cloth.

- Do not use abrasive cleaners or solvents, as they may damage the display or casing.
- Ensure the outdoor sensor remains free of debris and moisture.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **No Outdoor Reading:**
 - Check if the outdoor sensor batteries are correctly installed or need replacement.
 - Ensure the sensor is within the 330ft/100m transmission range of the main unit.
 - Press and hold the 'DOWN' button on the main unit to manually search for the sensor.
 - Verify the sensor channel matches the one selected on the main unit (if multiple sensors are used).
- **Inaccurate Readings:**
 - Ensure the outdoor sensor is placed in a shaded area, away from direct sunlight, heat sources, or extreme moisture.
 - Allow 7-10 days for the weather forecast to calibrate for optimal accuracy.
- **Atomic Clock Not Synchronizing:**
 - Ensure the main unit is placed away from large metal objects or electronic devices that might interfere with the WWVB signal.
 - Allow up to 24-48 hours for initial synchronization.
 - Manually set the time zone if automatic detection is not working.
- **Display Too Dim/Bright:**
 - Press the 'LIGHT' button to adjust the brightness level.
 - Check if Night Mode is active if the display is off during certain hours.

7. SPECIFICATIONS

Feature	Detail
Brand	MASHI
Model	B0FL1SWK14
Display Type	LED
Product Dimensions	1.16"D x 7.9"W x 5.35"H
Color	Silver
Material	Glass, Metal
Power Source (Main Unit)	Corded Electric (5V/1A adapter included)
Power Source (Outdoor Sensor)	2 x AAA Batteries (not included)

Connectivity Technology	Wireless (Radio Frequency)
Sensor Transmission Range	Up to 330ft/100m (open areas)
Temperature Accuracy	± 1 °C
Special Feature	Weather Resistant (Outdoor Sensor)

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official MASHI website. Keep your purchase receipt for warranty claims.