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LFF LWS163

LFF Weather Station User Manual

Model: LWS163 | Brand: LFF
Wireless Indoor Outdoor Weather Station with Color Display and Atomic Clock

1. PRODUCT OVERVIEW

The LFF Weather Station (Model LWS163) is a comprehensive device designed to provide accurate indoor and outdoor environmental data, timekeeping, and weather forecasting. It features a large 7.5-inch color LCD touchscreen display, offering clear visibility of various metrics including temperature, humidity, barometric pressure, moon phase, and dynamic weather icons. The integrated atomic clock ensures precise time synchronization, and the system supports up to three wireless remote sensors for monitoring multiple locations.



Figure 1.1: LFF Weather Station Main Unit and Remote Sensor

2. SETUP

2.1 Power Supply

The main weather station unit can be powered by either the included AC power cord or by 2 AAA batteries (not included). The remote sensor requires 2 AAA batteries (not included).

- Main Unit (Indoor Receiver): Use the provided power adapter for continuous backlight display. When powered by batteries only, the screen will automatically turn off after 10 seconds to conserve power.
- Remote Sensor: Insert 2 AAA batteries into the remote sensor. Ensure correct polarity.



Figure 2.1: Power Supply Connections



TWO MODES





Figure 2.2: Backlight Behavior with Different Power Modes

2.2 Remote Sensor Placement

Place the wireless remote sensor outdoors in a shaded, dry location, away from direct sunlight and precipitation, to ensure accurate temperature and humidity readings. The transmission range is up to 100 meters (328 feet) in an open area. The main unit supports up to 3 remote sensors (one included).



Figure 2.3: Wireless Transmission Range and Sensor Placement

2.3 Initial Setup and Synchronization

After powering on both the main unit and the remote sensor, the main unit will automatically attempt to synchronize with the remote sensor and the atomic clock signal (WWVB). This process may take 10-15 minutes. Ensure the main unit is placed in an area where it can receive a clear signal for atomic time synchronization.



3. OPERATING INSTRUCTIONS

3.1 Display Overview

The 7.5-inch color display provides a clear layout of all information. Key areas include:

- Outdoor Temperature & Humidity: Located on the left side.
- Indoor Temperature & Humidity: Located on the right side.
- Weather & Pressure: Central top section, showing current weather forecast and barometric pressure trend.
- Time, Moon Phase, & Date: Lower central and right sections.
- Control Buttons: Touch-sensitive buttons at the bottom for Mode, Set, Alarm, Channel, Down, and Up.



Figure 3.1: Detailed Display Layout

The atomic clock feature automatically synchronizes the time and date. If manual adjustment is needed or preferred, use the "Set" button to enter time/date setting mode. You can adjust the 12H/24H format and select from 8 available time zones (AST, NST, EST, CST, MST, PST, AKT, HAT).

3.3 Alarm Settings

The weather station includes two independent alarm clocks with a snooze function. Press the "Alarm" button to set or activate alarms. Follow the on-screen prompts to adjust alarm times and enable/disable them.



Figure 3.2: Dual Alarm Feature

3.4 Channel Selection

If you have multiple remote sensors, press the "Channel" button to cycle through the readings from each connected sensor (CH1, CH2, CH3). The display will show the data for the selected channel.

3.5 Backlight Adjustment

When the main unit is powered by the AC cord, there are 3 adjustable backlight modes. Use the appropriate control button (refer to the specific icon on the unit) to cycle through the brightness levels.

3.6 Weather Forecast Interpretation

The weather station provides a dynamic weather forecast for the next 8 hours, based on barometric pressure changes. The forecast is calibrated over 10 to 14 days for accuracy specific to your location. Interpret the weather icons as follows:



Sunny, Partly Sunny, Cloudy, Light Rain, Heavy Rain, Light Snow, Heavy Snow

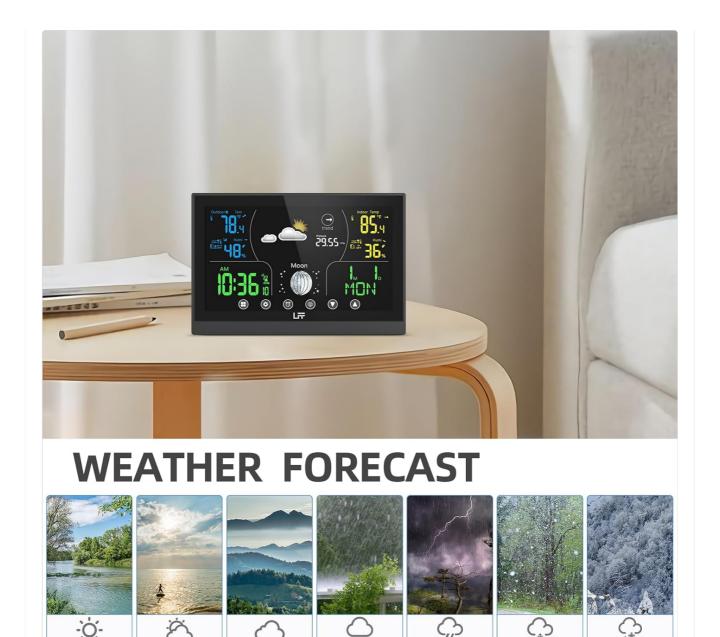


Figure 3.3: Weather Forecast Icons

Light Rain

Heavy Rain

Light Snow

Heavy Snow

4. MAINTENANCE

Partly Sunny

Cloudy

- Battery Replacement: Replace batteries in both the main unit (if used) and remote sensor when the low battery indicator appears on the display. Use fresh AAA batteries.
- **Cleaning:** Wipe the display and unit surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Sensor Care: Periodically check the outdoor sensor for debris or obstructions that might affect readings.

5. TROUBLESHOOTING

If you encounter issues with your LFF Weather Station, please refer to the following common problems and

solutions:

Problem	Possible Cause / Solution
No display on main unit	Check power adapter connection or replace AAA batteries.
Outdoor temperature/humidity not displayed or inaccurate	 Ensure remote sensor batteries are fresh and correctly inserted. Verify the remote sensor is within the 100m transmission range. Check for obstructions between the main unit and sensor. Resynchronize the sensor by reinserting batteries in both units. Ensure the sensor is placed in a shaded, dry location.
Atomic clock not synchronizing	 Ensure the main unit is placed near a window or in an open area for better signal reception. Allow up to 24 hours for initial synchronization. Manually set the time zone.
Inaccurate weather forecast	The weather forecast is based on barometric pressure changes and requires 10-14 days of calibration for optimal local accuracy. Ensure the unit has been operating continuously for this period.

For more detailed troubleshooting or specific issues, please refer to the Official User Manual (PDF).

6. Specifications

Feature	Detail
Product Dimensions	7.4 x 0.55 x 4.95 inches
Weight	1.21 Pounds
Model Number	LWS163
Power Source (Main Unit)	AC/DC Adapter (included) or 2 AAA Batteries (not included)
Power Source (Remote Sensor)	2 AAA Batteries (not included)
Display Type	7.5" Color LCD Touchscreen
Connectivity Technology	Wireless
Wireless Transmission Range	Up to 100 meters (328 feet) in open area
Supported Sensors	Up to 3 wireless remote sensors (one included)
Temperature Accuracy	1 degree Celsius

Feature	Detail
Special Features	Adjustable Brightness, Hygrometer, Thermometer, Atomic Clock, Dual Alarms, Moon Phase, Weather Forecast
Material	Plastic
Included Components	Main Weather Station Unit, 1 Wireless Remote Sensor, Power Cord

7. WARRANTY AND SUPPORT

LFF stands behind the quality of its products. For warranty information, technical support, or service inquiries, please contact LFF customer service. Keep your purchase receipt for warranty claims.

For comprehensive details and additional assistance, please download theOfficial LFF Weather Station User Manual (PDF).

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Related Documents - LWS163



LFF LWS163 Wireless Weather Station User Manual

Comprehensive user manual for the LFF LWS163 Wireless Weather Station, detailing setup, features, operation, safety instructions, and specifications for indoor and outdoor temperature, humidity, and barometric pressure monitoring.





LFF LWS125 Wireless Weather Station User Manual

Comprehensive user manual for the LFF LWS125 Wireless Weather Station, detailing setup, features, operation, and specifications for accurate indoor and outdoor environmental monitoring.



LFF Atomic Digital Wall Clock with Outdoor Temperature User Manual (LDC076)

User manual for the LFF LDC076 Atomic Digital Wall Clock. Learn about its features, setup, time setting, alarm functions, specifications, and placement guidelines.





LFF LWS181 Wireless Weather Station User Manual

User manual for the LFF LWS181 Wireless Weather Station, detailing its features, setup, operation, and specifications for indoor and outdoor temperature, humidity, and barometric pressure monitoring.









features, safety instructions, specifications, and FCC information.





User manual for the LFF LWS200 Wireless Color Weather Station, covering setup, features, operation, and maintenance.

