LFF LWC204

LFF Atomic Clock LWC204 User Manual

Model: LWC204 | Brand: LFF

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your LFF Atomic Clock Model LWC204. This digital clock features a large, easy-to-read display, atomic time synchronization, and a wireless sensor for indoor and outdoor temperature readings. Please read this manual thoroughly before use to ensure proper functionality and longevity of your device.

Image: The LFF Atomic Clock main unit with its wireless outdoor temperature sensor.

PACKAGE CONTENTS

- LFF Atomic Clock Main Unit
- Wireless Outdoor Temperature Sensor
- Instruction Manual (this document)
- Bracket for table standing

Note: Batteries are not included. The main clock unit requires 3x AA batteries, and the outdoor sensor requires 2x AAA batteries.

PRODUCT OVERVIEW

Familiarize yourself with the main components and controls of your LFF Atomic Clock.

Image: Front display and rear button layout of the LFF Atomic Clock.

Display Features:

- **Time Display:** Large digits for current time (12/24 Hour format).
- **AM/PM Indicator:** For 12-hour format.
- **DST Symbol:** Indicates Daylight Saving Time is active.
- **RCC Reception Icon:** Shows status of atomic time signal reception.
- **Alarm Icons (Zz, 1, 2):** Indicate active alarms and snooze function.
- **Indoor Temperature:** Current temperature inside (°C/°F).
- **Outdoor Temperature:** Current temperature from wireless sensor (°C/°F).
- **Date & Weekday:** Month, Day, and Day of the Week.
- **Low Battery Indicator:** For both main unit and outdoor sensor.

Rear Buttons:

- **SET Button:** Enters setting mode.
- **ALARM Button:** Accesses alarm settings.
- **CHANNEL Button:** Cycles through outdoor sensor channels (if multiple sensors are used).
- **DOWN/WAVE/°C/°F Button:** Decreases values in setting mode, manually initiates atomic signal search (WAVE), or switches temperature units.
- **UP/ALARM Button:** Increases values in setting mode, or activates/deactivates alarm.

SETUP

1. Battery Installation

1. **Outdoor Sensor:**

    - Open the battery compartment on the back of the wireless outdoor sensor.
    - Insert 2x AAA batteries, observing the correct polarity (+/-).

- Close the battery compartment securely.
- *Note: For temperatures below -4°F (-20°C), Lithium batteries are recommended for the outdoor sensor.*

2. **Main Clock Unit:**

- Open the battery compartment on the back of the main clock unit.
- Insert 3x AA batteries, observing the correct polarity (+/-).
- Close the battery compartment securely.

Image: Battery compartments for the main clock and outdoor sensor.

2. Initial Synchronization and Settings

Upon battery installation, the clock will automatically begin searching for the WWVB atomic time signal and attempt to connect with the outdoor sensor.

- The RCC Reception Icon will flash during the atomic signal search. This process may take several minutes or up to 24 hours depending on signal strength.
- The outdoor temperature should appear on the display within a few minutes after the sensor batteries are installed. If not, press the **CHANNEL** button on the main unit to cycle through channels or press the reset button on the outdoor sensor.

3. Manual Settings (if needed)

If the atomic signal is not received or you wish to adjust settings manually:

1. **Time Zone Setting:**

- Press and hold the **SET** button for 3 seconds to enter time zone setting.
- Use the **UP**/**ALARM** or **DOWN/WAVE**/°**C**/°**F** buttons to select your time zone (e.g., PST, MST, CST, EST).
- Press **SET** to confirm and move to the next setting.

2. **12/24 Hour Format:**

- After time zone, the hour format will flash. Use **UP**/**ALARM** or **DOWN/WAVE**/°**C**/°**F** to select 12-hour or 24-hour format.
- Press **SET** to confirm.

3. **Manual Time and Date Setting:**

- Continue pressing **SET** to cycle through Year, Month, Day, Hour, Minute settings.
- Use **UP**/**ALARM** or **DOWN/WAVE**/°**C**/°**F** to adjust each value.
- Press **SET** to confirm each setting.

4. **Daylight Saving Time (DST):**

- After setting the time, the DST setting will flash. Use **UP**/**ALARM** or **DOWN**/**WAVE**/**°C**/**°F** to enable or disable DST.
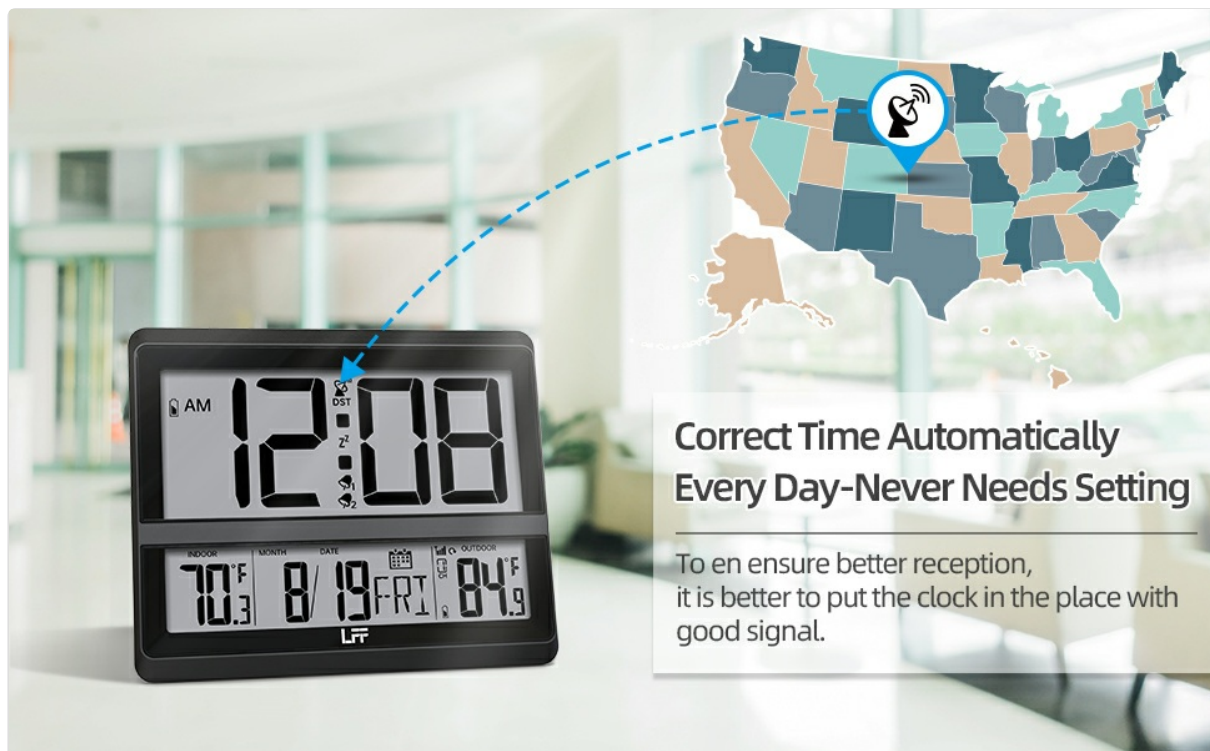- Press **SET** to exit setting mode.

Image: The clock automatically corrects time daily via WWVB signal.

4. Outdoor Sensor Placement

- Place the wireless outdoor sensor within 330 feet (100 meters) of the main unit.
- Choose a shaded location to avoid direct sunlight, which can affect temperature accuracy.
- Ensure the sensor is protected from direct rain and snow.
- Avoid placing the sensor near large metal objects or electrical appliances that may interfere with the wireless signal.

OPERATING INSTRUCTIONS

1. Display Modes

- The clock continuously displays time, indoor temperature, outdoor temperature, date, and day of the week.
- Press the **DOWN/WAVE**/°**C**/°**F** button to switch between Celsius (°C) and Fahrenheit (°F) for temperature display.

2. Alarm Function

1. **Setting the Alarm:**

   - Press the **ALARM** button once to display Alarm 1 time. Press again for Alarm 2.
   - While an alarm time is displayed, press and hold the **ALARM** button for 3 seconds to enter alarm setting mode. The hour will flash.
   - Use **UP**/**ALARM** or **DOWN/WAVE**/°**C**/°**F** to adjust the hour. Press **ALARM** to confirm.
   - The minute will flash. Use **UP**/**ALARM** or **DOWN/WAVE**/°**C**/°**F** to adjust the minute. Press **ALARM** to confirm and exit alarm setting.

2. **Activating/Deactivating Alarm:**

   - Press the **ALARM** button to display Alarm 1 or Alarm 2.
   - Press the **UP**/**ALARM** button to toggle the alarm ON or OFF. The corresponding alarm icon (1 or 2) will appear/disappear on the display.

3. **Snooze Function:**

   - When the alarm sounds, press the **SNOOZE** button (usually located on top or a dedicated button) to activate snooze. The alarm will sound again after approximately 5-10 minutes.
   - To stop the alarm completely, press any other button (e.g., **ALARM**, **SET**).

3. Manual Atomic Signal Search

If you wish to manually initiate a search for the WWVB atomic time signal, press and hold the **DOWN/WAVE**/°**C**/°**F** button for 3 seconds. The RCC Reception Icon will flash, indicating the search is in progress.

MAINTENANCE

- **Cleaning:** Wipe the clock and sensor with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the low battery indicator appears on the display for either the main unit or the outdoor sensor, replace the batteries promptly to ensure continuous operation and accurate readings. Refer to the "Battery Installation" section for details.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No display on main unit.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh AA batteries.
Outdoor temperature not displayed or incorrect.	- Outdoor sensor batteries are dead or incorrectly installed. - Sensor is out of range or obstructed. - Interference from other electronic devices. - Sensor channel mismatch.	- Replace AAA batteries in the sensor. - Relocate sensor closer to the main unit and away from obstructions. - Move sensor or main unit away from potential interference sources. - Press the **CHANNEL** button on the main unit to ensure it's on the correct channel.
Atomic time signal not received (RCC icon flashing or not displayed).	- Weak signal due to location or interference. - Manual search not initiated or failed.	- Place the clock near a window, facing Fort Collins, Colorado (USA). - Avoid placing near electronics, metal structures, or concrete walls. - Manually initiate signal search by holding the **DOWN/WAVE/°C/°F** button. - Allow up to 24 hours for automatic synchronization, especially during nighttime.
Time is incorrect after atomic synchronization.	Incorrect time zone setting.	Adjust the time zone setting as described in the "Manual Settings" section.

SPECIFICATIONS

Feature	Detail
Model Number	LWC204
Display Type	Digital LCD
Power Source (Main Unit)	3x AA Batteries (not included)
Power Source (Outdoor Sensor)	2x AAA Batteries (not included)
Indoor Temperature Range	32°F to 122°F (0°C to 50°C)
Outdoor Temperature Range	-58°F to 158°F (-50°C to 70°C)
Wireless Range	Up to 330 feet (100 meters) in open air
Time Format	12/24 Hour selectable

Feature	Detail
Dimensions (Main Unit)	7.48" W x 8.66" H (approx.)
Mounting Options	Wall Mount or Tabletop (bracket included)

Warranty and Support

LFF products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your purchase or contact LFF customer support.

For technical assistance or further inquiries, please visit the official LFF website or contact their customer service department. Contact details are typically available on the product packaging or the brand's official online presence.

Related Documents - LWC204

	[LFF LWC204 Atomic Digital Wall Clock with Outdoor Temperature User Manual](#) Comprehensive user manual for the LFF LWC204 Atomic Digital Wall Clock. This guide provides detailed instructions on setup, atomic time synchronization, temperature monitoring, alarm functions, and specifications for optimal use.
	[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 LWC100 Digital Atomic Wall Clock with Jumbo Display User Manual](#) Comprehensive user manual for the LFF LWC100 Digital Atomic Wall Clock with Jumbo Display, covering setup, features, specifications, and placement guidelines.

	[LFF LDC542 Atomic Digital Wall Clock User Manual - Time, Alarm, Temperature, Humidity Settings](#) Comprehensive user manual for the LFF LDC542 Atomic Digital Wall Clock. Learn how to set time, alarms, temperature units, and understand features like atomic clock reception and low battery indication.
	[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.
	[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.