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LEDLUX LL0259RF

Wireless RF WiFi Thermostat Kit User Manual

Brand: LEDLUX | **Model:** LL0259RF

1. Product Overview

The LEDLUX Wireless RF WiFi Thermostat Kit is designed to provide efficient and convenient temperature control for your gas boiler system. This kit includes a 220V AC powered RF WiFi receiver and a wireless RF thermostat powered by 2 AA batteries (not included). It offers smart home integration with Amazon Alexa, Google Home, TUYA, and Smart Life applications, allowing for remote control and voice commands.

Key features include a large rectangular LCD touchscreen with intuitive icons, weekly programming options (5+2 or 6+1 days with up to 6 periods per day), and a manual mode for temporary adjustments. The wireless design eliminates the need for extensive wiring, making it ideal for renovations or system upgrades. It also incorporates features like child lock and frost protection for enhanced safety and energy efficiency.

Figure 1: The Wireless RF WiFi Thermostat Kit, including the thermostat display unit and the RF receiver.

2. Components

- **Wireless RF Thermostat:** Battery-powered unit with LCD display for temperature control and programming. Requires 2 AA batteries (not included).
- **RF WiFi Receiver/Case:** 220V AC powered unit that connects to your gas boiler and communicates wirelessly with the thermostat.

3. Setup and Installation

3.1 Receiver Installation

The RF WiFi receiver should be mounted on the wall in close proximity to your gas boiler. Ensure it is connected to a 220V AC power source. The maximum wireless operating distance between the receiver and

the thermostat is 30 meters.

3.2 Thermostat Placement

The wireless RF thermostat can be placed anywhere in your home, providing flexibility in controlling your heating without the need for wall wiring. It is compatible with a 503 recessed box or can be directly installed on the wall.

Figure 2: Dimensions of the Wireless Thermostat (130 x 90 x 27 mm) and RF WiFi Receiver (86 x 86 x 29 mm).

3.3 Initial Setup

After installation, it is recommended to remove the almost invisible protective film from the thermostat screen to ensure optimal brightness and display clarity.

4. Operating Instructions

4.1 Weekly Programming

The thermostat supports weekly programming with options for 5+2 (weekdays + weekend) or 6+1 (Monday-Saturday + Sunday) schedules. You can set up to 6 distinct periods per day, each with its own time and temperature settings. This feature helps maximize comfort and reduce energy consumption by adapting to your daily routine.

4.2 Manual Mode

To temporarily override the programmed schedule, activate the manual mode. This allows you to adjust the current temperature setting as needed, suspending the pre-configured settings until the next programmed period or until manual mode is deactivated.

4.3 Smart Home Integration

The RF receiver is WiFi-enabled and compatible with Amazon Alexa Echo, Google Home, TUYA, and Smart Life applications. This allows for remote control of your heating system from anywhere and voice control for convenient adjustments.

4.4 Knob Control

The thermostat features a physical knob for easy and intuitive temperature adjustments and navigation through settings.

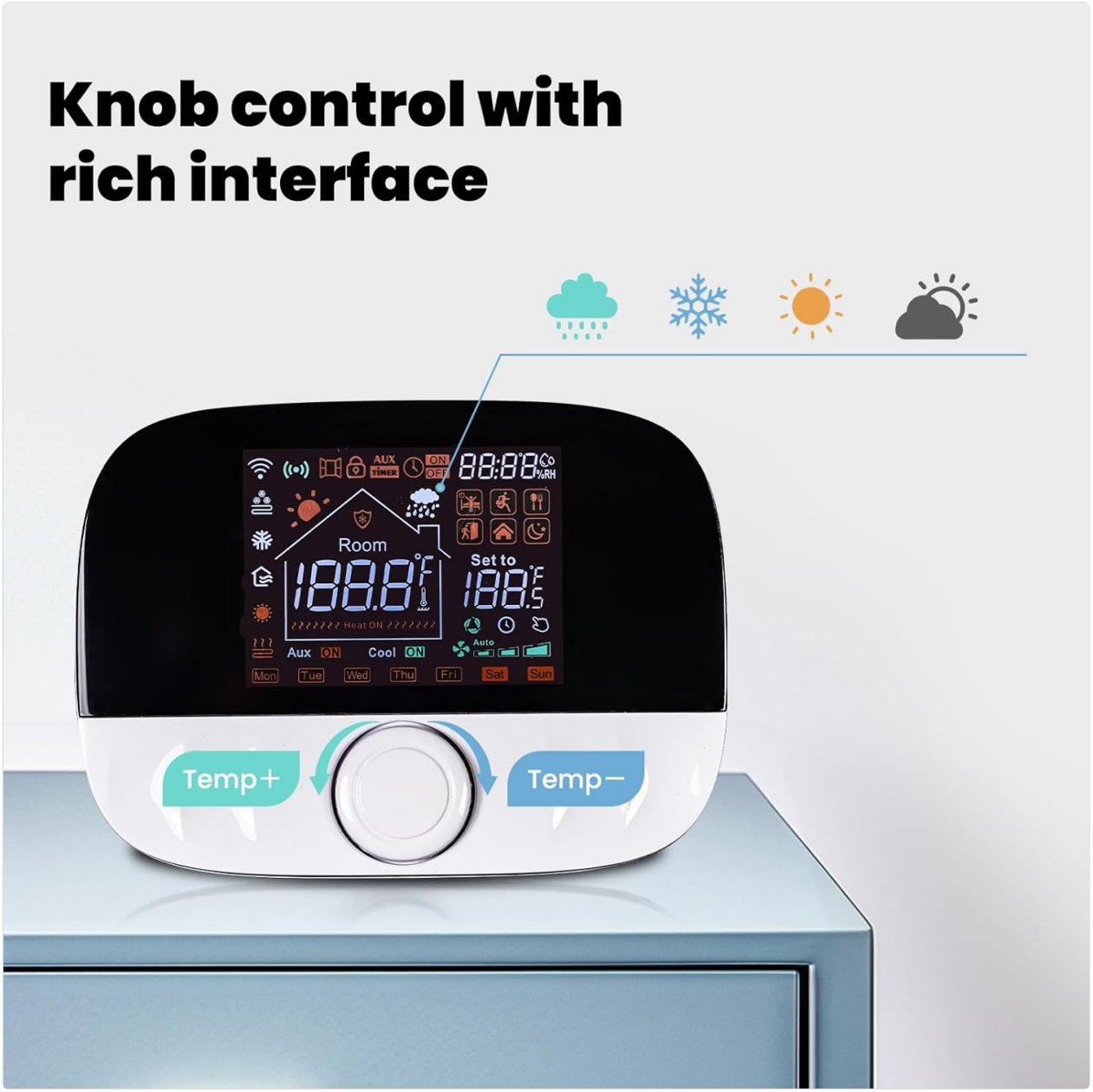

Figure 3: The thermostat's display and knob control, illustrating the user interface.

4.5 Child Lock

Activate the child lock feature to prevent unauthorized changes to the thermostat settings, ensuring consistent temperature control and safety.

Figure 4: The child lock feature helps prevent accidental or unauthorized adjustments to the thermostat settings.

4.6 Frost Protection

The thermostat includes a frost protection function, which automatically activates heating if the room temperature drops below 5°C, preventing pipes from freezing in cold conditions.

Figure 5: Frost protection ensures the temperature does not drop below a critical level, preventing damage.

4.7 Temperature Calibration

The thermostat allows for temperature calibration to ensure accurate readings and consistent heating performance.

Figure 6: Temperature calibration helps fine-tune the thermostat's accuracy for optimal comfort.

4.8 High Accuracy and Sensitivity

The thermostat offers high measurement accuracy of 0.1°C and setting accuracy of 0.5°C, ensuring precise temperature control.

Figure 7: The thermostat provides high accuracy and sensitivity for precise temperature management.

5. Care and Maintenance

To ensure the longevity and optimal performance of your thermostat kit, follow these maintenance guidelines:

- **Cleaning:** Wipe the thermostat and receiver surfaces with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** The wireless thermostat is powered by 2 AA batteries. Replace them when the low battery indicator appears on the display to ensure continuous operation.
- **Environmental Conditions:** Avoid exposing the units to extreme temperatures, direct sunlight, or high humidity.

6. Troubleshooting

If you encounter issues with your thermostat kit, refer to the following common problems and solutions:

- **Thermostat Display Not Working:**

    - Check if the 2 AA batteries in the thermostat are correctly inserted and have sufficient charge. Replace if necessary.

- **RF Signal Loss / Loss of Connection:**
    - Ensure the thermostat is within the 30-meter wireless range of the receiver.
    - Check for potential sources of interference (e.g., thick walls, other wireless devices).
    - Try resetting both the thermostat and the receiver by temporarily removing power/batteries and then reconnecting.
    - Re-establish the pairing between the thermostat and receiver if a pairing function is available (refer to specific pairing instructions if provided in the product packaging).
- **Inaccurate Temperature Readings:**
    - Ensure the thermostat is not placed near heat sources (e.g., direct sunlight, lamps) or drafts.
    - Perform a temperature calibration if the option is available (refer to section 4.7).
- **No Heating/Cooling Response:**
    - Verify that the receiver is properly connected to the gas boiler and receiving 220V AC power.
    - Check the thermostat's settings to ensure it is in heating mode and the set temperature is above the current room temperature.
    - Confirm that the boiler itself is operational.

If problems persist after attempting these solutions, please contact customer support.

7. Technical Specifications

Figure 8: Overview of product features and specifications.

Specification	Value
Brand	LEDLUX
Model Number	LL0259RF
Color	White, Blue
Thermostat Dimensions	130 x 90 x 27 mm (Display 75 x 60 mm)
Receiver Dimensions	86 x 86 x 29 mm
Voltage (Receiver)	220 Volts AC
Power Source (Thermostat)	2 x AA Batteries (not included)
Connectivity Technology	Wireless (RF, WiFi)
Wireless Frequency	433MHz (FSK) / 433MHz (Bidirectional FSK)

Specification	Value
Transmission Distance	<200m in open space (up to 30m indoors)
Temperature Setting Range	5-95°C
Ambient Temperature Range	-5-50°C
Temperature Measurement Accuracy	0.1°C
Temperature Setting Accuracy	0.5°C
Protection Level	IP20
Special Features	Voice control with Alexa and Google Assistant, Weekly Programming, Child Lock, Frost Protection
Controller Type	Google Assistant
Item Weight	370 g

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your product or contact the seller/manufacturer directly. Keep your proof of purchase for any warranty claims.

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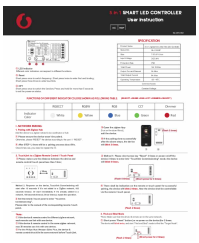
Related Documents

	[LEDLUX Digital WiFi Thermostat LL0253 User Manual & Guide] Comprehensive user manual for the LEDLUX LL0253 Digital WiFi Thermostat. Learn about installation, programming, operation, and advanced settings for efficient home heating control.
	[LEDLUX WI-FI Smart Multi-Socket 16A User Manual] Comprehensive guide for the LEDLUX WI-FI Smart Multi-Socket 16A, covering setup, app integration with Smart Life/Tuya, Amazon Alexa, and Google Home, along with safety information and warranty details.
	[Ledlux ZigBee Smart Gateway IH-K008: Product Manual & Setup Guide] Comprehensive product manual for the Ledlux ZigBee Smart Gateway (Model IH-K008), detailing setup, connection, specifications, and quality assurance for smart home applications.
	[5 in 1 Smart LED Controller User Instruction] User instructions and specifications for the 5-in-1 Smart LED Controller (Model GL-C-002P), covering Zigbee and 2.4GHz RF pairing, wiring diagrams, and operational settings.