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LoraTap B083SJG9K4

LoraTap Wireless Exhaust Air Control System User Manual

Model: B083SJG9K4
Brand: LoraTap

1. Introduction

Thank you for choosing the LoraTap Wireless Exhaust Air Control System. This system is designed to enhance safety and convenience by ensuring that your extractor hood or other ventilation devices only operate when a window is open, preventing negative pressure buildup, especially in homes with fireplaces or chimneys. This manual provides detailed instructions for installation, operation, and maintenance of your new device.

2. Safety Information

- Read all instructions carefully before installation and use.
- This device is intended for indoor use only.
- Ensure the power supply is disconnected before installing or performing any maintenance.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Keep out of reach of children.
- Use only the specified battery type (2*AAA for the sensor, not included).
- Do not attempt to repair or modify the device yourself. Contact qualified personnel for service.

3. Package Contents

Please check the package contents to ensure all items are present and undamaged:

- 1 x Wireless Sensor with Magnet
- 1 x Wireless Socket
- 1 x Screwdriver
- 3 x Double-sided Adhesive Tape
- 3 x 10mm Spacers
- 1 x User Manual (this document)



Figure 3.1: Package Contents. The image displays all components included in the box: the wireless sensor, the wireless socket, a small screwdriver, three pieces of double-sided adhesive tape, and three 10mm spacers.

4. Product Overview

The LoraTap Wireless Exhaust Air Control System consists of two main components: a wireless magnetic contact sensor and a wireless smart socket.



Figure 4.1: System Components. This image shows the two primary components of the system: the magnetic window sensor on the left and the wireless smart plug on the right.

4.1. Wireless Sensor

The sensor detects the open/closed state of a window or door. It comprises two parts: the main sensor unit and a smaller magnetic unit. When these two parts are separated (window open), a signal is sent to the wireless socket.

- **Dimensions:** Approximately 92mm (height) x 28mm (width) x 13mm (depth) for the main unit.
- **Power:** Requires 2 x AAA batteries (not included).
- **Features:** Compact design, easy battery replacement from the top without disassembly.



Figure 4.2: Sensor and Socket Dimensions. This image provides detailed dimensions for both the wireless sensor and the wireless socket, highlighting their compact size and features like easy battery access for the sensor.

4.2. Wireless Socket

The wireless socket plugs into a standard wall outlet and controls the power supply to the connected appliance (e.g., extractor hood). It receives signals from the wireless sensor to turn the appliance on or off.

- **Dimensions:** Approximately 108mm (height) x 55mm (width).
- **Max Load:** Up to 3680 Watts.
- **Features:** Pre-paired with the sensor for plug-and-play functionality.

5. Setup and Installation

The LoraTap system is designed for easy installation. The wireless socket and sensor are pre-paired from the factory.

5.1. Battery Installation (Wireless Sensor)

1. Locate the battery compartment on the top of the main sensor unit.

2. Slide open the battery cover.
3. Insert 2 x AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

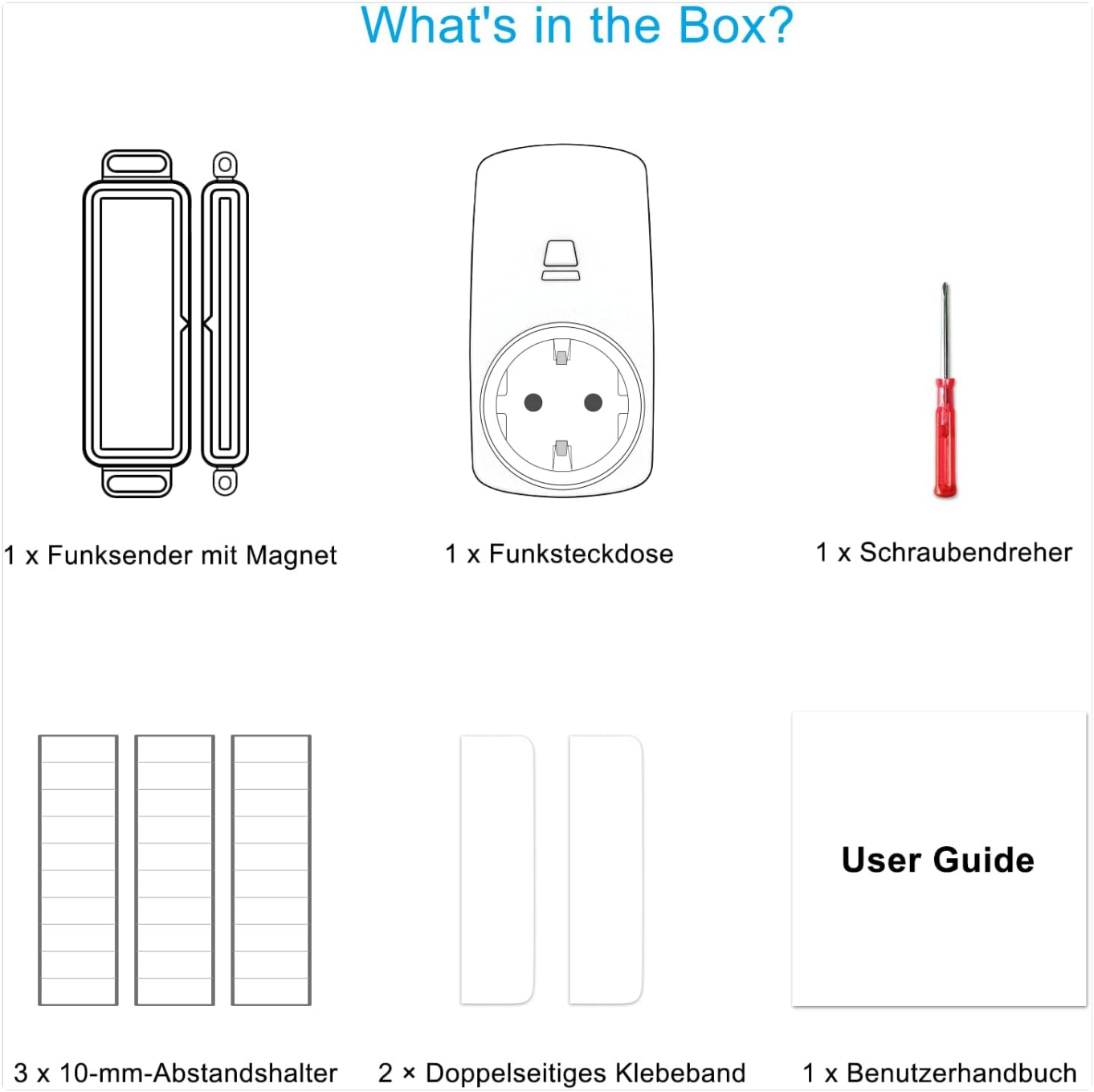


Figure 5.1: Battery Installation. This diagram illustrates the process of opening the sensor's battery compartment and correctly inserting two AAA batteries.

5.2. Sensor Mounting

Mount the sensor on your window or door frame. The main sensor unit and the magnetic unit must be aligned and close to each other when the window/door is closed (ideally within 10-15mm). Use the included double-sided adhesive tape for mounting. For uneven surfaces, use the 10mm spacers.

1. Clean the surface where the sensor will be mounted.
2. Attach the double-sided adhesive tape to the back of both the main sensor unit and the magnetic unit.
3. Position the main sensor unit on the fixed part of the window frame.
4. Position the magnetic unit on the movable part of the window, directly opposite the main sensor unit, ensuring they are aligned when the window is closed. The gap between them should be minimal (less than 15mm).

5. If the window frame is uneven, use the provided 10mm spacers to ensure proper alignment and proximity.



Figure 5.2: Sensor Mounting Example. This image demonstrates the correct placement of the wireless sensor and its magnetic counterpart on a window frame, ensuring proper alignment for detection.

5.3. Wireless Socket Connection

1. Plug the wireless socket into a standard wall outlet.
2. Plug your appliance (e.g., extractor hood) into the wireless socket.

The system is now ready for operation. When the window is opened, the sensor will send a signal to the socket, allowing the connected appliance to receive power. When the window is closed, the power to the appliance will be cut off.

6. Operating Instructions

The LoraTap Wireless Exhaust Air Control System operates automatically based on the window's open or closed state.

6.1. Basic Operation (Extractor Hood Safety)

- When the window where the sensor is installed is **open**, the wireless socket will be activated, allowing the connected extractor hood to function.
- When the window is **closed**, the wireless socket will deactivate, cutting power to the extractor hood. This prevents negative pressure in rooms with fireplaces or chimneys.



Figure 6.1: Extractor Hood Operation. This image shows the system ensuring the extractor hood only operates when the window is open, enhancing safety.

6.2. Alternative Applications

Beyond extractor hoods, this system can be used for various other applications:

- **Lighting Control:** Automatically turn on lights when entering a room (door opens).
- **Garage Door Monitoring:** Signal with a control light if the garage door is open.
- **Fan Control:** Turn on a fan when a window is opened for ventilation.



Figure 6.2: Versatile Applications. This image illustrates how the system can be used to control other devices like lamps or fans based on door or window status.

6.3. Range and Connectivity

The wireless system offers a significant range:

- **Indoor Range:** Up to 30 meters.
- **Outdoor Range:** Up to 200 meters (without obstacles).

7. Maintenance

7.1. Battery Replacement

When the sensor's indicator light dims or the system becomes unresponsive, it's time to replace the batteries. Refer to Section 5.1 for detailed battery installation steps.

- Always use 2 new AAA batteries.
- Dispose of old batteries responsibly according to local regulations.

7.2. Cleaning

Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the device.

8. Troubleshooting

Problem	Possible Cause	Solution
Appliance does not turn on when window is open.	◦ Sensor batteries are low or dead. ◦ Sensor and magnetic unit are not properly aligned or too far apart. ◦ Wireless socket is not plugged in or appliance is not plugged into socket. ◦ Appliance itself is faulty. ◦ Interference from other wireless devices.	◦ Replace sensor batteries. ◦ Adjust sensor and magnetic unit alignment; ensure gap is less than 15mm. Use spacers if needed. ◦ Verify all power connections. ◦ Test appliance directly in a wall outlet. ◦ Relocate the socket or sensor to minimize interference.
Appliance remains on when window is closed.	◦ Sensor and magnetic unit are not close enough when window is closed. ◦ Sensor malfunction.	◦ Ensure sensor and magnetic unit are within 15mm when closed. ◦ Contact customer support if problem persists.
Poor wireless range.	◦ Obstacles (thick walls, metal objects). ◦ Interference from other wireless devices.	◦ Try to reduce obstacles between sensor and socket. ◦ Move devices away from other wireless electronics.

9. Specifications

Feature	Detail
Brand	LoraTap
Model Number	B083SJG9K4
Material	ABS plastic (flame retardant)
Sensor Power Source	2 x AAA batteries (not included)
Wireless Socket Max Load	3680 Watts
Indoor Wireless Range	Up to 30 meters

Feature	Detail
Outdoor Wireless Range	Up to 200 meters (open field)
Installation Method	Self-adhesive
Special Features	Wireless, Plug and Play (pre-paired)
Usage Environment	Indoor use only
Product Weight	200 g

10. Warranty and Support

For warranty information or technical support, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific warranty terms and contact details.
No official product videos are available for this model at this time.

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