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SONOFF RFR2

SONOFF RFR2 WiFi Wireless Smart Switch User Manual

Model: RFR2

1. INTRODUCTION

The SONOFF RFR2 is a WiFi Wireless Smart Switch with an RF receiver, designed to integrate seamlessly into your DIY smart home system. It allows you to control your home appliances remotely via the eWeLink app, voice commands through Amazon Alexa or Google Home, and even a 433MHz RF remote control (sold separately). This manual provides detailed instructions for installation, operation, and troubleshooting to ensure optimal performance and safety.



Figure 1: SONOFF RFR2 WiFi Wireless Smart Switch

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing and operating the device. Failure to follow these instructions may result in electric shock, fire, or other injuries.


- Ensure the power supply is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician.
- Do not expose the device to moisture or extreme temperatures.
- Do not exceed the maximum load capacity of 10 Amps / 2200 Watts.
- Use copper conductors only.


3. PRODUCT OVERVIEW

The SONOFF RFR2 offers versatile control options for your smart home. Its compact design allows for easy integration into existing electrical systems.


Smart Life, As from Simple Retrofit

Engineered to make home appliances smart, ready to control your home from afar.







Voice Control




APP Control




433.92MHz RF Control




Humidifier




Electric Kettle



Garage Door



Light



Coffee Maker

Figure 2: SONOFF RFR2 applications including voice, app, and RF control for various appliances.

Key Features:

- **RF Remote Control:** Turn devices on/off using a 433MHz RF remote (not included).
- **APP Remote Control:** Control devices from anywhere using the eWeLink app on iOS & Android.
- **Schedule Automatic Control:** Set timers and schedules for automated operation.
- **Intelligent Scene:** Create smart scenes to automate multiple devices or trigger actions based on conditions.
- **Hands-free Voice Control:** Compatible with Amazon Alexa and Google Home Assistant.

4. SETUP AND INSTALLATION

Follow these steps to install and set up your SONOFF RFR2 Smart Switch.

4.1 Wiring Diagram

Ensure the power is OFF before wiring. Connect the device according to the diagram below. The RFR2 supports a single gang setup.

Your browser does not support the video tag. This video demonstrates the wiring and setup process for SONOFF smart switches, including the RFR2 model. It illustrates how to connect the device to your electrical system and integrate it into your smart home.

Video 1: SONOFF RF Smart Switch Installation Guide. This video provides a visual guide for wiring and setting up your SONOFF smart switch, including the RFR2 model, demonstrating the connection points for input and output.

4.2 Pairing with eWeLink App

1. Download the eWeLink App from the App Store (iOS) or Google Play Store (Android).
2. Register an eWeLink account and log in.
3. Power on the SONOFF RFR2. The Wi-Fi LED indicator will flash rapidly (in Quick Pairing Mode). If not, press and hold the pairing button for 5 seconds until it flashes rapidly.
4. In the eWeLink App, tap the '+' icon at the bottom center, then select 'Quick Pairing'.
5. Follow the on-screen instructions to connect the device to your Wi-Fi network.
6. Once successfully added, you can rename the device and assign it to a room.

4.3 Pairing with 433MHz RF Remote (Optional)

To pair with a 433MHz RF remote (not included):

1. Press and hold the pairing button on the RFR2 for approximately 3 seconds until you hear a beep.
2. Immediately press any button on your 433MHz RF remote. You will hear another beep, indicating successful pairing.

5. OPERATING INSTRUCTIONS

Control your SONOFF RFR2 using various methods.

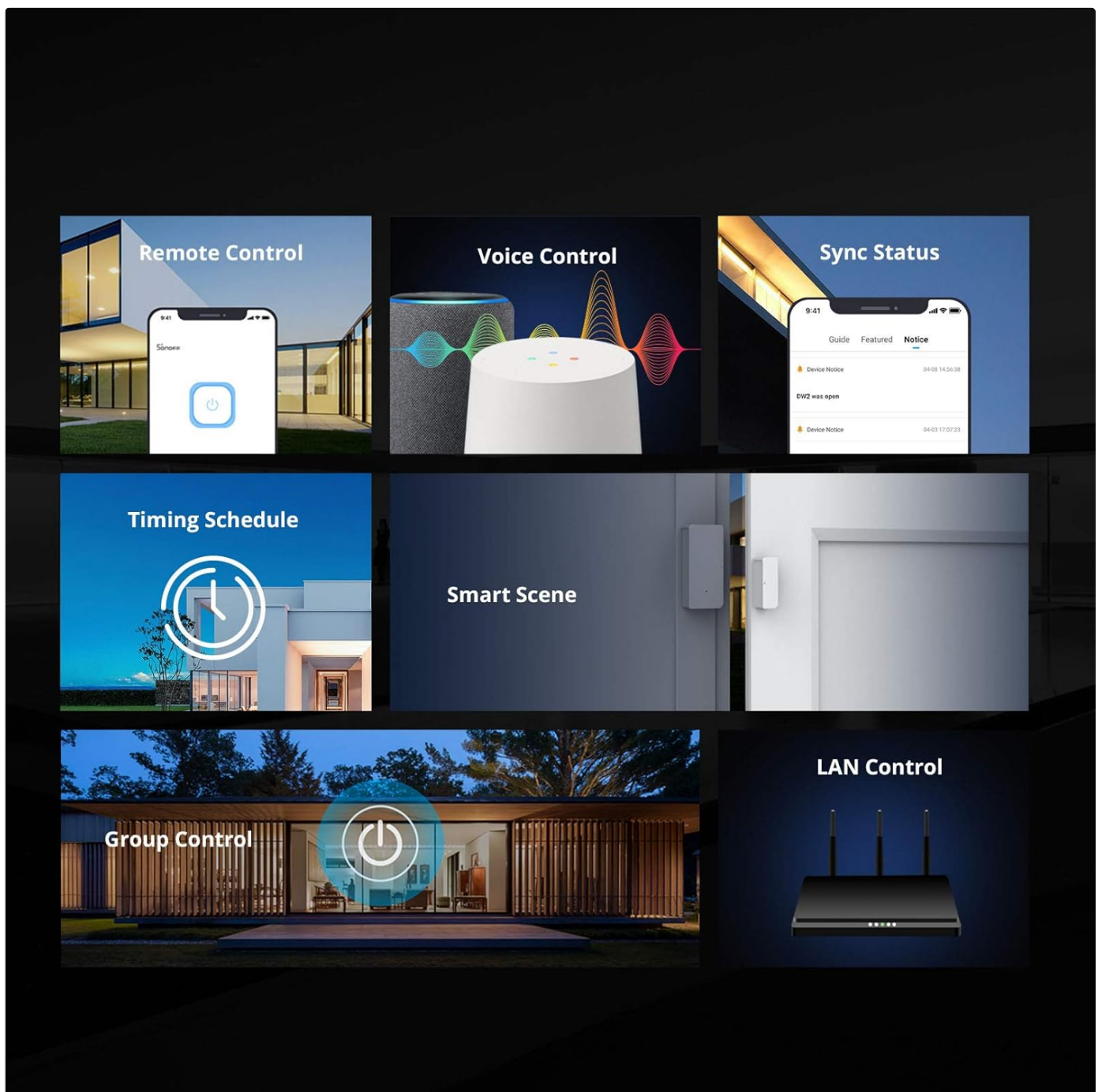


Figure 3: Multiple control options for the SONOFF RFR2.

5.1 App Control (eWeLink)

- **Remote ON/OFF:** Tap the device icon in the eWeLink app to turn it on or off from anywhere.
- **Timing Schedules:** Set single, repeating, or countdown timers.
- **Loop Timing:** Automate devices to turn on/off repeatedly within a set period.
- **Device Status Sync:** The app displays the real-time status of your device.

Manage A Group of Devices with A Tap

Organize SONOFF smart devices into a group for unified control with a single tap on your smartphone.

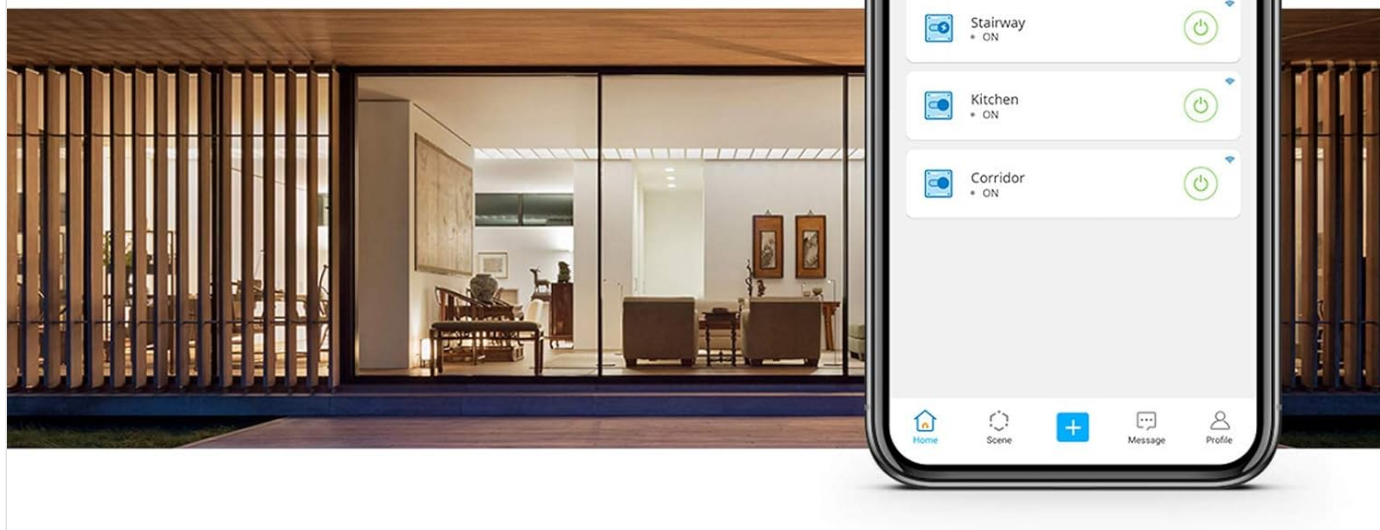


Figure 4: Managing a group of devices with a single tap in the eWeLink app.



Figure 5: Options for creating smart life automation, including tap to perform, timer, and sunrise/sunset.

Sync Device Status on APP

Not sure if the light is off while you leave home? Immediately access the APP to check the status and turn off it.



Figure 6: Sync device status on the eWeLink app, allowing users to check and control devices remotely.

5.2 Voice Control

The SONOFF RFR2 is compatible with Amazon Alexa and Google Home Assistant. Link your eWeLink account to your voice assistant app to enable hands-free control.

Do You Want to Do with Your Voice

Release your hands to simplify daily routines. Works with Alexa & Google Home to make you control the device connected with RFR2 through your voice



Figure 7: Control your SONOFF RFR2 with voice commands via Amazon Alexa or Google Home.

- **Amazon Alexa:** Say "Alexa, turn on [device name]" or "Alexa, turn off [device name]".
- **Google Home:** Say "Hey Google, turn on [device name]" or "Hey Google, turn off [device name]".

6. MAINTENANCE

The SONOFF RFR2 is designed for low maintenance. Keep the device clean and dry. Do not attempt to disassemble or repair the device yourself, as this will void the warranty and may pose safety risks. For any issues, refer to the troubleshooting section or contact customer support.

7. TROUBLESHOOTING

If you encounter issues with your SONOFF RFR2, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device offline in eWeLink App	No Wi-Fi connection, incorrect Wi-Fi password, router issues, device too far from router.	Check Wi-Fi signal strength. Ensure correct Wi-Fi password. Restart router and device. Re-pair the device if necessary.
Cannot pair device	Incorrect pairing mode, Wi-Fi network issues (5GHz not supported), device not in range.	Ensure device is in Quick Pairing Mode (rapid flashing LED). Confirm your Wi-Fi is 2.4GHz. Move device closer to router. Try Compatibility Mode pairing if Quick Pairing fails (press button for 7s, then 5s).

Problem	Possible Cause	Solution
RF remote not working	Remote not paired, remote battery low, interference.	Re-pair the RF remote with the RFR2. Check/replace remote battery. Reduce potential interference sources.
Device turns on/off unexpectedly	Conflicting schedules, smart scenes, or shared control.	Review all set schedules and smart scenes in the eWeLink App. Check if the device is shared with other users who might be controlling it.

8. SPECIFICATIONS

Feature	Specification
Model	RFR2
Input Voltage	100-240V AC 50/60Hz
Output Voltage	100-240V AC 50/60Hz
Max. Load	10A / 2200W
Wi-Fi Standard	IEEE 802.11 b/g/n 2.4GHz
RF Frequency	433.92MHz
Dimensions (L x W x H)	3.54 x 1.61 x 1.14 inches (90 x 41 x 29 mm)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	5%-90%RH, Non-condensing
Material	PC V0

9. WARRANTY AND SUPPORT

9.1 Warranty Information

SONOFF products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official SONOFF website for the most up-to-date warranty terms and conditions.

9.2 Customer Support

For technical support, troubleshooting assistance, or general inquiries, please contact SONOFF customer support through their official website or the eWeLink app. You can also visit the [SONOFF Store on Amazon](#) for more product information and resources.

