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SONOFF G1

SONOFF G1 GPRS/GSM Remote Power Smart Switch Instruction Manual

Model: G1 | Brand: SONOFF

1. INTRODUCTION

The SONOFF G1 is a GPRS/GSM smart power switch designed for remote control of electrical appliances. Unlike Wi-Fi dependent devices, the G1 operates via a 2G GPRS network, requiring a standard SIM card for connectivity. This allows for remote management of devices in locations without Wi-Fi access, making it suitable for various applications including agriculture, pet care, and industrial control.

Key Features:

- Supports SIM Card (GSM/GPRS: 800/900/1800/1900MHz)
- Control via GPRS data, no Wi-Fi required
- Remote ON/OFF functionality through the eWeLink app
- Real-time device status synchronization with the app
- Scheduled and countdown timers for automated operation
- Device sharing with multiple users
- Smart scene integration based on environmental conditions
- Voice control compatibility with Amazon Alexa and Google Home

2. SAFETY INFORMATION

Please read this section carefully before installation and operation to ensure safe use and prevent damage to the device or connected appliances.

- **Power Disconnection:** Always disconnect power to the circuit before installing or performing any maintenance on the device.
- **Professional Installation:** Installation should be performed by a qualified electrician if you are unfamiliar with electrical wiring.
- **Voltage and Load:** Ensure the input voltage and connected load do not exceed the device's specifications (Input: AC 90-250V, Maxload: 220V 3000W).
- **Environment:** Do not expose the device to moisture, extreme temperatures, or corrosive

environments.

- **SIM Card:** Ensure the SIM card is correctly inserted and secured. Do not attempt to insert or remove the SIM card while the device is powered on.

3. PRODUCT OVERVIEW

The SONOFF G1 smart switch features input and output terminals, a SIM card slot, and an indicator light. Familiarize yourself with the device's components before proceeding with installation.



Image 3.1: Front view of the Sonoff G1 GPRS/GSM Smart Switch. This image displays the device's exterior, including the "Output" and "Input" terminals labeled L, E, N, and the device specifications such as GSM/GPRS frequencies (800/900/1800/1900 MHz), input voltage (AC 90-250V 50/60Hz), and maximum load (220V 3000W). CE and FCC certifications are also visible.

Components:

- **Input Terminals (L, N, E):** For connecting the main power supply.
- **Output Terminals (L, N, E):** For connecting the appliance to be controlled.
- **SIM Card Slot:** Located internally, for inserting a 2G GSM/GPRS SIM card.
- **Status Indicator LED:** Provides feedback on the device's connection status.

4. SETUP

4.1 SIM Card Installation

The Sonoff G1 requires a standard 2G GSM/GPRS SIM card for network connectivity. Ensure the SIM card is active and has a data plan.

1. **Power Off:** Ensure the Sonoff G1 is disconnected from all power sources.
2. **Open Casing:** Carefully open the device casing to access the internal circuit board.
3. **Insert SIM:** Locate the SIM card slot on the circuit board. Insert the SIM card into the slot, ensuring it is correctly oriented and securely seated.
4. **Close Casing:** Reassemble the device casing.

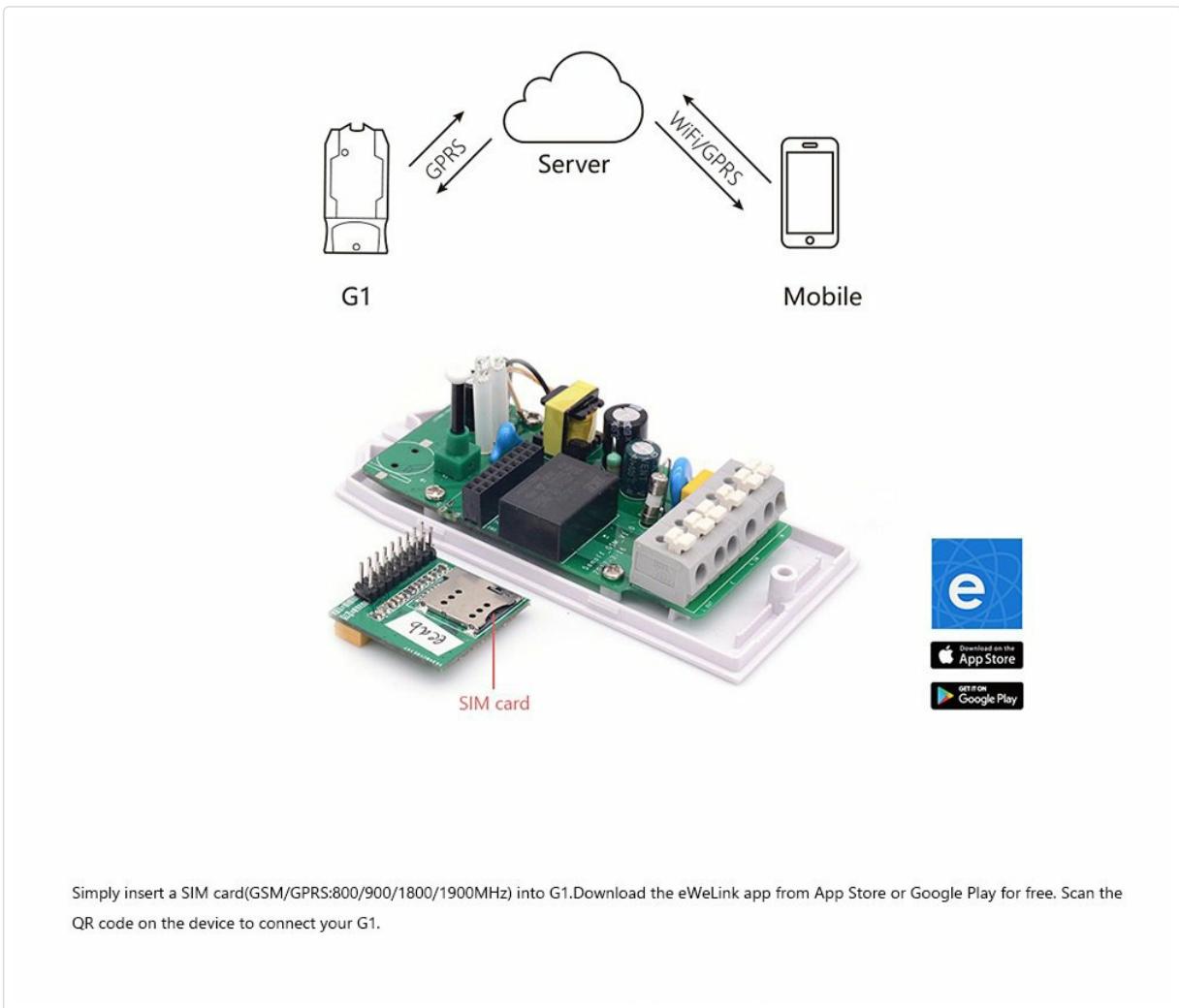


Image 4.1: Internal view of the Sonoff G1 circuit board with a SIM card inserted. This image highlights the SIM card slot and also displays icons for downloading the eWeLink app from the App Store and Google Play, along with a QR code for device connection.

Note: Some regions may have discontinued 2G network support. Verify 2G network availability with your mobile carrier before use. 3G and 4G SIM cards may work if they support 2G fallback.

4.2 Wiring Diagram

Connect the Sonoff G1 to your power source and appliance according to the following diagram. Incorrect wiring can cause damage to the device or pose a safety hazard.

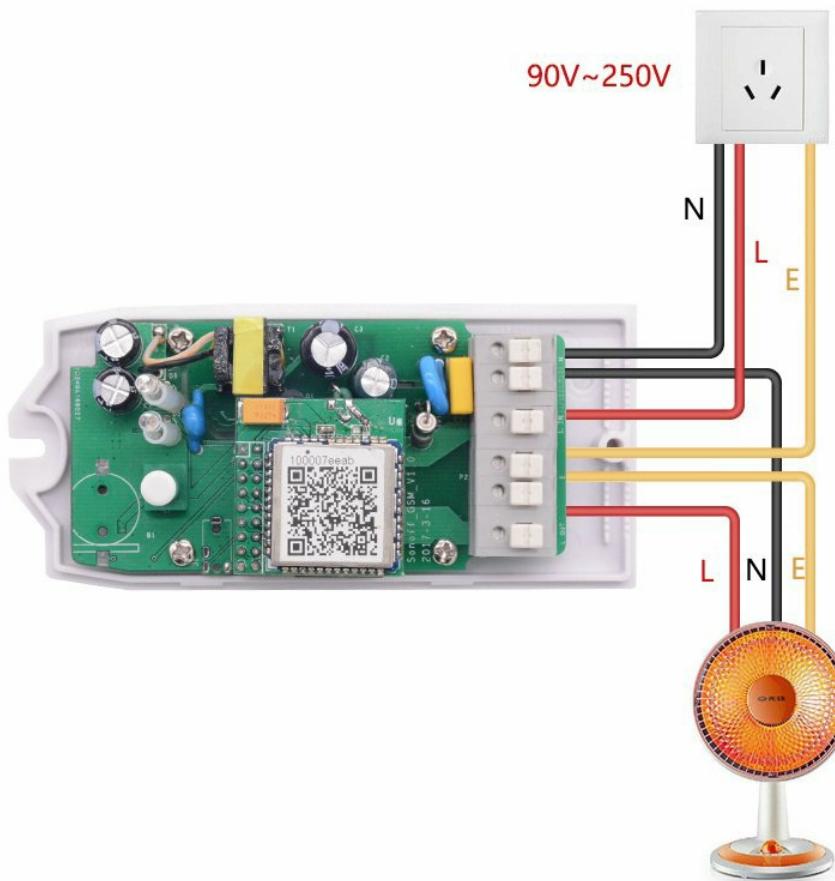


Image 4.2: Wiring diagram illustrating the connection of the Sonoff G1. The diagram shows the input (N, L, E) from a 90V~250V power source and the output (N, L, E) connected to an appliance, such as a heater. The internal circuit board of the G1 is also depicted.

- Input Connection:** Connect the Live (L), Neutral (N), and Earth (E) wires from your main power supply to the corresponding "Input" terminals on the Sonoff G1.
- Output Connection:** Connect the Live (L), Neutral (N), and Earth (E) wires from your appliance to the corresponding "Output" terminals on the Sonoff G1.
- Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts.

4.3 App Installation and Device Pairing

The Sonoff G1 is controlled via the eWeLink mobile application.

- Download eWeLink App:** Download the "eWeLink" app from the Apple App Store (for iOS devices) or Google Play Store (for Android devices).
- Register/Login:** Open the app and register a new account or log in with an existing one.
- Power On Device:** Connect the Sonoff G1 to a power source after completing the wiring. The device will attempt to connect to the GPRS network.
- Add Device:** In the eWeLink app, follow the on-screen instructions to add a new device. Select the GPRS device type. The app will guide you through the pairing process, which involves the device communicating with the cloud via the GPRS network.

5. Name Device: Once successfully paired, you can name your Sonoff G1 for easy identification.

5. OPERATION

5.1 Remote ON/OFF Control

Control your connected appliances from anywhere using the eWeLink app over the GPRS network.



Image 5.1: Remote ON/OFF control of appliances via GPRS network. A smartphone screen shows the eWeLink app interface with an ON/OFF button, while a Sonoff G1 device is depicted in a field with a cellular tower in the background, symbolizing GPRS connectivity.

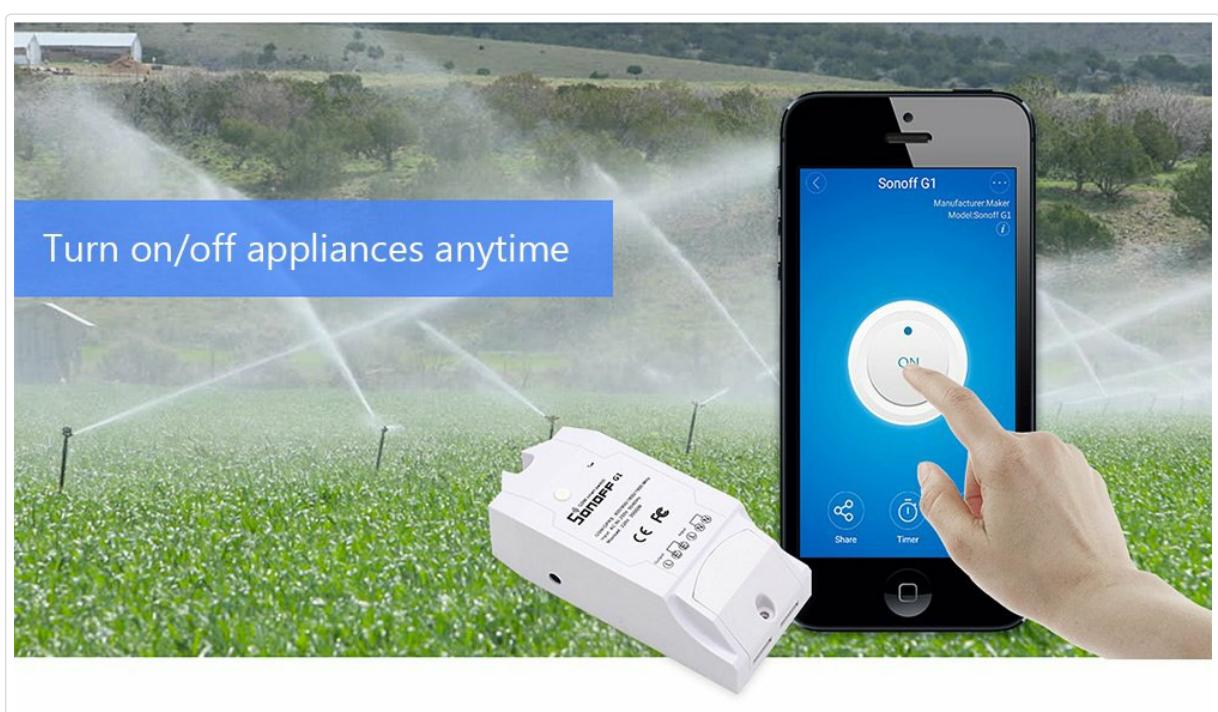


Image 5.2: Turn on/off appliances anytime. This image shows a hand interacting with the eWeLink app on a smartphone,

pressing the "ON" button. A Sonoff G1 device is placed in a field with active irrigation sprinklers, demonstrating its use in agricultural applications.

- Open the eWeLink app and select your Sonoff G1 device.
- Tap the large power button icon to toggle the connected appliance ON or OFF.
- The app will display the real-time status of the device.

5.2 Timing Functions

Automate your appliances with scheduled and countdown timers.

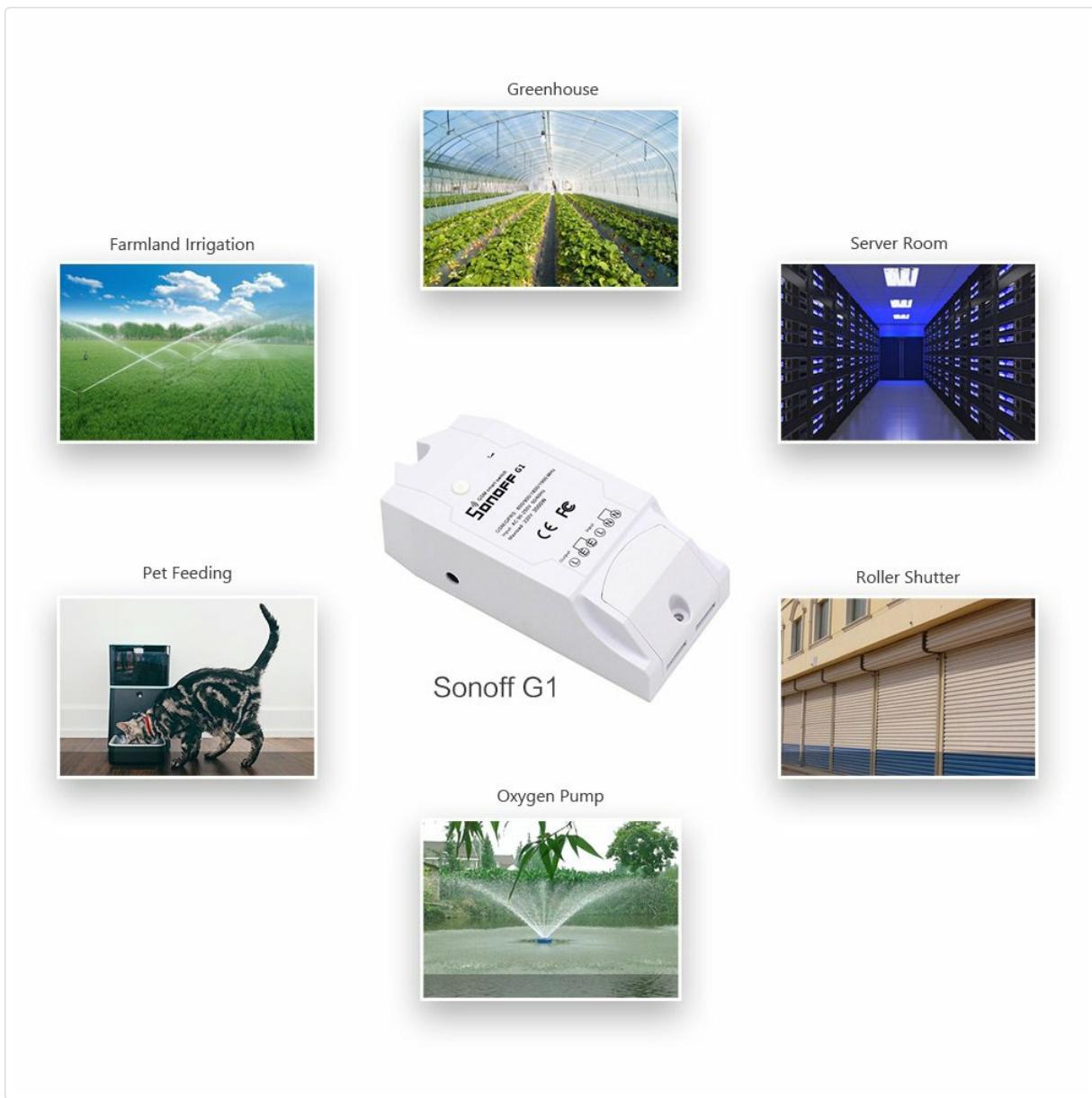


Image 5.3: Timer settings within the eWeLink app. The image displays options for "Repeat," "Once," and "Countdown" timers, allowing users to set specific days and times for the device to turn ON or OFF. An example shows lights turning on at 8:00 and off at 23:00 daily.

- **Scheduled Timers:** Set specific times for the device to turn ON or OFF daily, on selected days, or once.
- **Countdown Timers:** Set a countdown for the device to turn ON or OFF after a specified duration.

5.3 Share Control

Allow family members or colleagues to control the Sonoff G1 device.

- In the eWeLink app, navigate to the device settings.
- Select "Share Device" and enter the eWeLink account of the person you wish to share control with.

5.4 Smart Scene

Create automated scenarios based on environmental conditions or other device statuses.

- Access the "Scene" or "Smart Scene" section in the eWeLink app.
- Configure triggers (e.g., temperature, humidity from other sensors) and actions (e.g., turn G1 ON/OFF).

5.5 Voice Control

Integrate your Sonoff G1 with voice assistants for hands-free control.

- **Amazon Alexa / Google Home:** Follow the instructions within the Alexa or Google Home app to link your eWeLink account.
- Once linked, you can use voice commands such as "Alexa, turn on [Device Name]" or "Hey Google, turn off [Device Name]".

6. APPLICATIONS

The Sonoff G1's GPRS connectivity makes it ideal for various remote control applications where Wi-Fi is unavailable or unreliable.

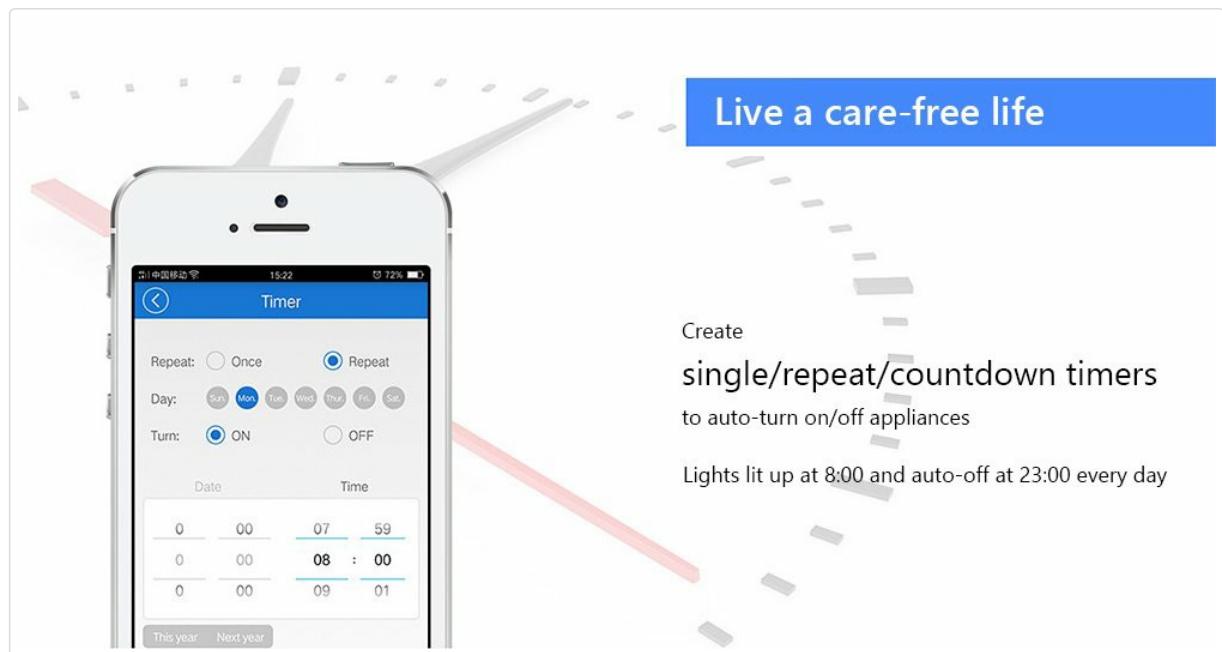


Image 6.1: Diverse applications of the Sonoff G1. This diagram illustrates the versatility of the device, showcasing its use in scenarios such as farmland irrigation, greenhouse climate control, server room power management, automated pet feeding, controlling roller shutters, and managing oxygen pumps.

- **Modern Agriculture:** Greenhouse light control, watering machines, oxygen pumps for aquaculture.
- **Pet Feeding:** Automated control of pet feeders.
- **Server Room Control:** Remote power cycling of servers or cooling systems.
- **Roller Shutters:** Remote operation of motorized roller shutters.
- **Remote Pumps/Motors:** Control of water pumps or other motors in remote locations.

7. MAINTENANCE

To ensure optimal performance and longevity of your Sonoff G1, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Environment:** Keep the device in a dry, well-ventilated area, away from direct sunlight, dust, and extreme temperatures.
- **Firmware Updates:** Periodically check the eWeLink app for available firmware updates for your device to ensure you have the latest features and security enhancements.
- **Connection Check:** Regularly verify the SIM card's data plan and 2G network signal strength in the device's location.

8. TROUBLESHOOTING

If you encounter issues with your Sonoff G1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not connecting to network	No 2G network coverage; SIM card inactive/no data; SIM card incorrectly inserted.	Verify 2G network availability in your area. Check SIM card status and data plan with your carrier. Reinsert SIM card correctly.
Device not responding in app	Poor GPRS signal; device offline; app issue.	Check device's signal indicator. Restart the device. Close and reopen the eWeLink app. Ensure the device is powered on.
Appliance not turning ON/OFF	Incorrect wiring; appliance fault; device fault.	Review wiring diagram (Section 4.2). Test the appliance directly. Contact support if the device appears faulty.
Voice control not working	eWeLink account not linked; incorrect voice command; internet issue with voice assistant.	Ensure eWeLink is correctly linked in Alexa/Google Home app. Use the exact device name. Check your voice assistant's internet connection.

9. SPECIFICATIONS

Brand	SONOFF
Model	G1
GSM/GPRS Frequency	800/900/1800/1900MHz
Input Voltage	AC 90-250V
Max Load	220V 3000W
Connectivity Technology	GPRS (2G)
Compatible Devices	Television, Audio/Video Receiver, Cable/Satellite Box, Media Player, Air Conditioner, Washing Machine, Smartphone, Garage Door, Fan, Projector, Set Top Box, Air Purifier, etc.

Special Features	Voice Search (via integrated assistants)
Item Weight	95 g
Dimensions	12.2 x 5.6 x 2.8 cm (Package Dimensions)

10. WARRANTY AND SUPPORT

- Warranty:** This product comes with a 10 Days Replacement warranty. Please refer to your purchase documentation for specific terms and conditions.
- Installation Support:** Free installation support is available. Please refer to the official SONOFF website for contact details or support numbers.
- Further Assistance:** For additional support, troubleshooting, or product information, please visit the official SONOFF website or contact their customer service.

11. IMPORTANT NOTES

- 2G Network Dependency:** The Sonoff G1 relies solely on 2G GPRS networks for communication. Ensure stable 2G coverage in the intended installation area.
- Regional Limitations:** Some countries (e.g., America, Australia) have phased out 2G networks. Confirm 2G availability in your region before purchasing or using this product.
- SIM Card Compatibility:** While 3G and 4G SIM cards may work if they support 2G fallback, it is recommended to verify compatibility with your service provider.