Sonew Sonewa4re30d9sh-12

Sonew 7 Channel GSM Remote Switch Controller 4G SMS Relay Switch User Manual

Model: Sonewa4re30d9sh-12

1. INTRODUCTION

The Sonew 7 Channel GSM Remote Switch Controller (Model: Sonewa4re30d9sh-12) is a 4G remote control switch designed to operate via the 4G mobile phone network. This device features seven independent relay switches, allowing remote activation of connected equipment. It supports control through dialing its cell phone number or by sending SMS text commands.

The controller identifies authorized phone numbers, rejecting calls from unauthorized numbers without incurring call charges. Its 4G, 3G, and GSM compatibility ensures functionality across various regions. Programming can be performed quickly via SMS or the on-board quick teaching button. All relay outputs can function in either switch mode or pulse timing mode, supporting both free control and security authorization number control modes. The device also allows disabling SMS replies to save costs and provides a history log for equipment operation. It offers two output modes: relay output with call mode and relay output with SMS control.

- ■ Has seven independent relay switches and activates NO.1 relay switch by dialing its cell phone number.
- ■ Refuse a call without answering and refuse to open the device to which it is connected, so there is no charge for calling the phone and the authorized phone number that is being called can be identified.
- ■ 4G design, through 4G, 3G and GSM, Net can work anywhere in the world 7-channel 50V 30A 50 Hz relay contact
- ■ Can carry out remote password operation and password change Caller ID confirmation security

Image 1.1: The Sonew 7 Channel GSM Remote Switch Controller with its protective cover removed, showing the internal circuit board, SIM card slot, antenna, and seven blue relay switches.

2. SETUP

2.1 Package Contents

Ensure all items are present in the package:

- 1 x 4G/3G/GSM 7-Way Remote Switch Controller
- 1 x USB Cable
- 1 x USB Programming Adapter
- 1 x Antenna
- 1 x User Manual (this document)

Image 2.1: The Sonew controller alongside its accessories, including the USB cable, programming adapter, and antenna.

2.2 SIM Card Installation

1. Open the controller's casing carefully.
2. Locate the SIM card slot on the circuit board.
3. Insert a standard 4G/3G/GSM SIM card into the slot, ensuring correct orientation.
4. Close the casing securely.

Image 2.2: Detailed view of the circuit board, highlighting the SIM card slot and the connector for the external antenna.

2.3 Antenna Connection

Connect the provided antenna to the designated connector on the controller's circuit board. Ensure it is finger-tight to maintain a stable signal connection.

2.4 Power Connection

Connect the device to a 12-24V DC power source. Observe polarity to prevent damage. The power input terminals are typically labeled on the device.

2.5 Relay Connections

Connect the devices you wish to control to the seven independent relay terminals. Refer to the wiring diagram (if provided separately or on the device itself) for correct connections. Each relay can be configured for normally open (NO) or normally closed (NC) operation depending on your application.

2.6 Initial Programming

The controller can be programmed using SMS commands or PC software via the USB programming adapter. For initial setup, it is recommended to use the PC software for comprehensive configuration, including setting authorized phone numbers and default relay states.

- **SMS Programming:** Send specific SMS commands to the controller's SIM card number to configure settings. Refer to the command list in this manual or the full manual for details.
- **PC Software Programming:** Connect the controller to a computer using the USB cable and programming adapter. Use the dedicated software to access and modify all settings.

3. OPERATING INSTRUCTIONS

3.1 Activating Relays via Phone Call

To activate Relay No. 1, dial the phone number of the SIM card inserted in the controller from an authorized phone number. The controller will reject the call and activate the relay without answering, thus incurring no call charges. This method is typically for Relay No. 1 only.

3.2 Controlling Relays via SMS Commands

All seven relays can be controlled using specific SMS commands. These commands allow you to switch relays ON/OFF, set pulse timing, and change operational modes.

- **Switch Mode:** Relays remain in their activated state until another command is received.
- **Pulse Timing Mode:** Relays activate for a predefined duration and then automatically switch off.
- **Example Command (Illustrative):** To turn on Relay 2, you might send an SMS like "RELAY2ON" (actual commands will be specified in the full manual or software).

3.3 Password Management

The device supports remote password operations and password changes via SMS or PC software to enhance security. Ensure your password is kept confidential.

3.4 SMS Reply Function

The SMS reply function can be disabled to reduce operational costs. This setting can be configured through SMS commands or the PC software.

3.5 Equipment Operation History Log

The controller maintains a history log of operations. This log can be accessed and reviewed via PC software to monitor device activity.

Image 3.1: The Sonew controller in a typical application, demonstrating its capability to remotely control devices such as a garage door.

4. MAINTENANCE

The Sonew 7 Channel GSM Remote Switch Controller is designed for low maintenance.

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or solvents.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges. Avoid exposure to extreme conditions, direct sunlight, or moisture.
- **Connection Checks:** Periodically check all wiring connections (power, relays, antenna) to ensure they are secure and free from corrosion.
- **Firmware Updates:** Check the manufacturer's website periodically for any available firmware updates that may improve performance or add features.

5. TROUBLESHOOTING

5.1 Device Not Responding

- **Check Power:** Ensure the device is properly connected to a 12-24V DC power source and receiving power.
- **SIM Card:** Verify that the SIM card is correctly inserted and active. Check if the SIM card has sufficient credit or an active plan for calls/SMS.
- **Network Signal:** Ensure the device is in an area with adequate 4G/3G/GSM network coverage. The antenna should be securely connected.
- **Authorized Numbers:** Confirm that the phone number you are using to control the device is registered as an authorized number in the controller's settings.
- **Programming:** Re-check your programming settings via SMS or PC software to ensure commands are correctly configured.

5.2 Relays Not Activating

- **Wiring:** Inspect the wiring connections to the relays and the connected equipment. Ensure they are secure and correctly wired (NO/NC).
- **Command Syntax:** Double-check the SMS command syntax. Even minor errors can prevent commands from being recognized.
- **Power to Controlled Device:** Ensure the device connected to the relay has its own power supply, if required.
- **Relay Mode:** Verify if the relay is set to the correct mode (switch or pulse timing) for your application.

5.3 Incorrect Frequency Band (US vs. European/Australian)

The device is available in different frequency versions (US, European, Australian). If the device is not functioning, ensure you have the correct version for your region's mobile network frequencies. Using a device designed for a different region will result in network connectivity issues.

Frequency Bands by Region

Region	LTE-FDD	LTE-TDD	WCDMA	GSM
US Frequency	B2/B4/B12	N/A	B2/B4/B5	N/A
European Frequency	B1/B3/B5/B7/B8/B20	B38/B40/B41	B1/B5/B8	B3/B8
Australian Frequency	B1/B3/B7/B8/B20/B28A	B38/B40/B41	B1/B8	B3/B8

6. SPECIFICATIONS

Feature	Detail
Model Number	Sonewa4re30d9sh-12
Voltage	12-24V DC
Material	ABS Plastic
Item Weight	1.1 pounds
Manufacturer	Sonew
Network Compatibility	4G/3G/GSM
Relay Channels	7 Independent Relays

Feature	Detail
Control Methods	SMS, Phone Call (for Relay 1), PC Software
Programming	SMS or USB Programming Adapter
Included Components	Controller, USB Cable, USB Programming Adapter, Antenna, Manual

7. WARRANTY INFORMATION

Specific warranty details for the Sonew 7 Channel GSM Remote Switch Controller are not available in the provided product data. Please refer to the product packaging, the manufacturer's official website, or contact your point of purchase for comprehensive warranty information.

8. SUPPORT

For technical assistance, further inquiries, or to download the latest software and firmware, please visit the official Sonew website or contact their customer support.

Manufacturer: Sonew

Website: Visit the Sonew Store on Amazon (for general brand information, specific support links may vary)