Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Dioche RTU5024

Dioche RTU5024 GSM Gate Opener and Remote Switch User Manual

Model: RTU5024

1. Introduction

The Dioche RTU5024 is a GSM-based remote control device designed for opening/closing gates, garage doors, and other equipment. It operates by receiving calls from authorized numbers, initiating a relay action without incurring call charges. This device offers secure and convenient access control for various applications.



Image 1.1: The Dioche RTU5024 GSM Gate Opener providing mobile phone access control.

2. Product Features

- **Security:** Automatically identifies caller ID and ignores unknown calls.
- **Cost-Effective:** Supports calls from authorized numbers to trigger ON/OFF operations without call charges.
- **Global Compatibility:** Supports Quad-band GSM (850/900/1800/1900 MHz) for worldwide use.
- **Customization:** Users can add or remove SMS commands. No need for physical remote controls for different users.
- **User Capacity:** Up to 200 authorized phone numbers can be configured.
- **Timer Function:** Programmable opening and closing times for the relay.
- **Durable Design:** Compact metal casing.

3. What's in the Box

Upon unpacking your Dioche RTU5024, please ensure all the following components are present:

- 1 x RTU5024 GSM Gate Opener Unit
- 1 x GSM Antenna
- 2 x Terminal Blocks (for wiring connections)
- 1 x English User Manual (this document)



Image 3.1: All components included with the RTU5024 GSM Gate Opener.

4. Setup Guide

4.1. SIM Card Installation

1. Ensure the device is powered off.
2. Locate the SIM card slot on the device.
3. Insert a standard GSM SIM card into the slot. Ensure the SIM card is active and has sufficient credit for SMS commands (if used).
4. Secure the SIM card if necessary.

4.2. Antenna Connection

1. Screw the provided GSM antenna onto the ANT connector on the device.
2. Position the antenna for optimal signal reception.



Image 4.1: Dioche RTU5024 unit with antenna attached.

4.3. Wiring the Relay Output

The RTU5024 has a relay output (NO, COM, NC) to connect to your gate opener or other device. Consult your gate opener's manual for specific wiring instructions.

1. **Normally Open (NO):** Connects to COM when the relay is activated.
2. **Common (COM):** The common terminal for the relay.
3. **Normally Closed (NC):** Disconnects from COM when the relay is activated.

For most gate openers, you will connect the gate opener's trigger input to the**NO** and **COM** terminals of the RTU5024.



Image 4.2: Close-up of the relay output terminals.

4.4. Power Connection

Connect the DC 9-24V power supply to the designated power input terminals on the device. Ensure correct polarity (+/-).

4.5. Initial Configuration (Adding Authorized Numbers)

To add authorized phone numbers that can control the device, send an SMS command from your mobile phone to the SIM card number inserted in the RTU5024. Refer to the specific SMS command format in the programming section.

5. Operating Instructions

5.1. Remote Control via Free Call

Once authorized numbers are configured, simply dial the SIM card number of the RTU5024 from an authorized phone. The device will recognize the caller ID, reject the call (without answering, thus no call charges), and activate the relay for a preset duration. This action will trigger your connected gate or device.



Image 5.1: Operating the RTU5024 via a mobile phone call.

5.2. Remote Control via SMS Commands

The RTU5024 supports various SMS commands for advanced control and configuration. These commands allow you to add/delete users, set relay timing, and check device status.
Example SMS Commands:

- **Add User:** #ADD[Password]#[PhoneNumber]# (e.g., #ADD1234#+33612345678#)
- **Delete User:** #DEL[Password]#[PhoneNumber]#
- **Set Relay Time:** #TIME[Password]#[Seconds]# (e.g., #TIME1234#3# for 3 seconds)
- **Check Status:** #STATUS[Password]#

Note: The default password is typically '1234'. It is highly recommended to change this password for security.

5.3. Timer Function

The relay activation time can be programmed to open or close the gate for a specific duration. This is configured via SMS commands as described above.

6. Maintenance

The Dioche RTU5024 is designed for low maintenance. Follow these guidelines to ensure optimal performance:

- **Regular Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning.
- **Antenna Placement:** Ensure the antenna is securely connected and positioned for the best possible GSM signal. Avoid placing the device in metal enclosures that could block the signal.
- **Power Supply:** Use a stable DC 9-24V power supply. Unstable power can affect device performance.
- **SIM Card:** Periodically check the SIM card's validity and credit balance, especially if SMS commands are used.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not respond to calls.	• SIM card not inserted correctly or inactive. • Caller's number is not authorized. • No GSM signal. • Incorrect wiring.	• Check SIM card installation and activation. • Ensure the calling number is added to the authorized list via SMS. • Relocate the device or antenna for better signal. • Verify power and relay wiring.
SMS commands are not working.	• Incorrect SMS command format. • SIM card has no credit for sending/receiving SMS. • Incorrect password used in SMS command.	• Double-check SMS command syntax and password. • Ensure SIM card has sufficient credit. • Verify the device password.
Gate opens/closes for wrong duration.	• Relay activation time is incorrectly set.	• Send an SMS command to adjust the relay activation time.
Device LED indicators are off.	• No power supply. • Device malfunction.	• Check power connection and power adapter. • Contact customer support if power is confirmed.

8. Specifications

- **Model:** RTU5024
- **Brand:** Dioche
- **Connectivity:** GSM (850/900/1800/1900 MHz)
- **Power Input:** DC 9-24V

- **Relay Output:** Normally Open (NO), Common (COM), Normally Closed (NC)
- **Authorized Users:** Up to 200
- **Material:** Metal casing
- **Dimensions (L x W x H):** Approximately 10 x 10 x 10 mm (0.39 x 0.39 x 0.39 inches)
- **Applications:** Gates, garage doors, parking barriers, remote control of electrical appliances.

9. Applications

The Dioche RTU5024 is versatile and can be used in various scenarios:

- Residential gates and garage doors
- Commercial building access control
- Parking lot barriers
- Remote control of industrial equipment
- Server room access
- Agricultural facilities (e.g., greenhouses, fish farms)



Residential Use



Industrial Control



Agricultural Use



Server Room Access

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Dioche customer service through their official website or the retailer where the product was purchased.
Manufacturer: Dioche
ASIN: B07X9THKHL
GTIN/UPC: 713135396077

© 2023 Dioche. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07X9THKHL

More documents and user manuals: **https://manuals.plus/**