GSM Gate, Barrier, Shutter, Garage Door and Door opener
Open gate or garage door with a FREE call from your mobile phone!
Remote switching machines with a FREE call from your mobile phone!

GSM Gate Opener
Remote Relay Switch

User Manual

Ver 1.0

RTU5034

Date Issued: 2019-03-26

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This handbook has been designed as a guide to the installation and operation of RTU5034 Gate Opener.

Statements contained in the handbook are general guidelines only and in no way are designed to supersede the instructions contained with other products.

We recommend that the advice of a registered electrician be sought before any Installation work commences.

WAYHANG company its employees and distributors, accept no liability for any loss or damage including consequential damage due to reliance on any material contained in this handbook.

WAYHANG company its employees and distributors, accept no liability for GSM Network upgrading or SIMCard upgrading due to the technology specifications contained in this handbook.

Caution!

Please read this user manual carefully before install/operate the Gate

Opener,basic electronic acknowledges required.

1. Product details

The RTU5034 is an powerful remote relay controller, it is a very simple device which can be used for authorized door access, controlling gates, switching of remote equipments, car parking systems. Actually the RTU5034 can be used in places which require to turn ON/OFF your system, machines, equipments remotely with a FREE call from your mobile phone.

Just dial from Authorized User number at the specified time then the Barrier and doors are opened, or the machine are turn on or off by the RTU5034. There are no call costs, the RTU5034 rejects the call from authorized number then carries out the turn ON/OFF action.

Moreover, the user can be authorized at the specified time to operate it, after timeout, will automatically change to unauthorized type.

1.1 Features:

Advantages

➢ Quad-band, can work in the worldwide GSM Networks;
➢ No call charges. the GSM GPRS Relay Switch rejects the call from authorized number then carries out the turn ON/OFF action on the first 'ring';
➢ Multiple applications. (gates, bollards, barriers, garage doors, shutters and access doors or machines);
➢ Secure - Using caller-ID for identification, unknown callers are ignored;
➢ Can be operated from anywhere, no distance limit;
➢ Add or remove users by SMS Text command;
➢ No need to provide a remote control or keys for different users;
➢ Up to 200 authorized phone numbers can be configured at the specified time;
➢ One output with relay rating 3A/240VAC for connecting the switch of the door or machines;
➢ The relay action will return a SMS confirmation to the owner or authorized call in number, this function is editable by user;
➢ The relay close or open time is programmable;
➢ Multiple applications. (gates, bollards, barriers, garage doors, shutters and access doors or machines);
➢ Smart phone APP for configuration available.

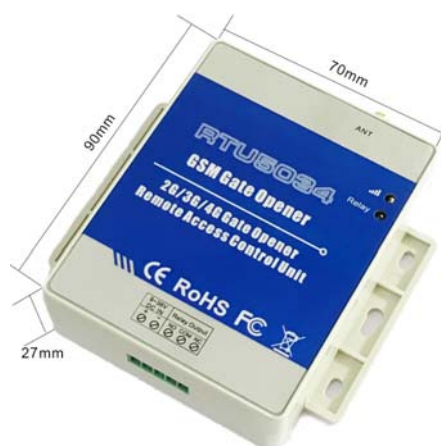 search **GSM Gate Opener RTU5034** on **Google play** for downloading APP.

Setting

➢ APP or SMS command;
➢ Operate from anywhere anytime, no distance limitation;

1.2 Specifications

GSM Frequency	Quad-band 850/900/1800/1900MHz, 3G 4G is optional.
Digital Output	NC/NO dry contact, 3A/240VAC
DC Power supply	9~24VDC/2A
Power consumption	12V input Max. 50mA/Average 25mA
SIM Card	Support 3V SIM Card
Antenna	50Ω SMA Antenna interface
Temperature range	-20~+60 °C
Humidity range	Relative humidity 90%
Exterior dimension	W90mm*D70mm*H27mm
Net Weight	160 g

1.3 Dimensions

1.4. Standard Packing List

✓ Gate Opener * 1
✓ Antenna * 1
✓ User Manual *1
✓ Packing size: 17*9.5*4 cm
✓ Gross Weight: 0.32kg

1.5 Applications:

➢ Remote open/close swing/sliding gates, doors, shutters, garage doors, locks with a free call!
➢ **Residential**: Door, gate, garage access control, electronic fan, microwave, air-conditioner control.
➢ **Industry:** Remote switch equipment, for example: street lights, solar power, motor, inverter, PLC, pumps, fans, etc.
➢ **Agriculture:** Remote control pumps, etc.
➢ **Business:** Remote control electronic boxes, bright billboards, LED signs, etc.

2.Safety Directions

Safe Startup
Do not use Gate Opener when using GSM equipment is prohibited or might bring disturbance or danger.

Interference
All wireless equipment might interfere network signals of Gate Opener and influence its performance.

Avoid Use at Gas Station
Do not use Gate Opener at a gas station. Power off Gate Opener when it near fuels or chemicals.

Power it off near Blasting Places
Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use
Please install the product at suitable places as described in the product documentation. Avoid signal shielded by covering the mainframe.

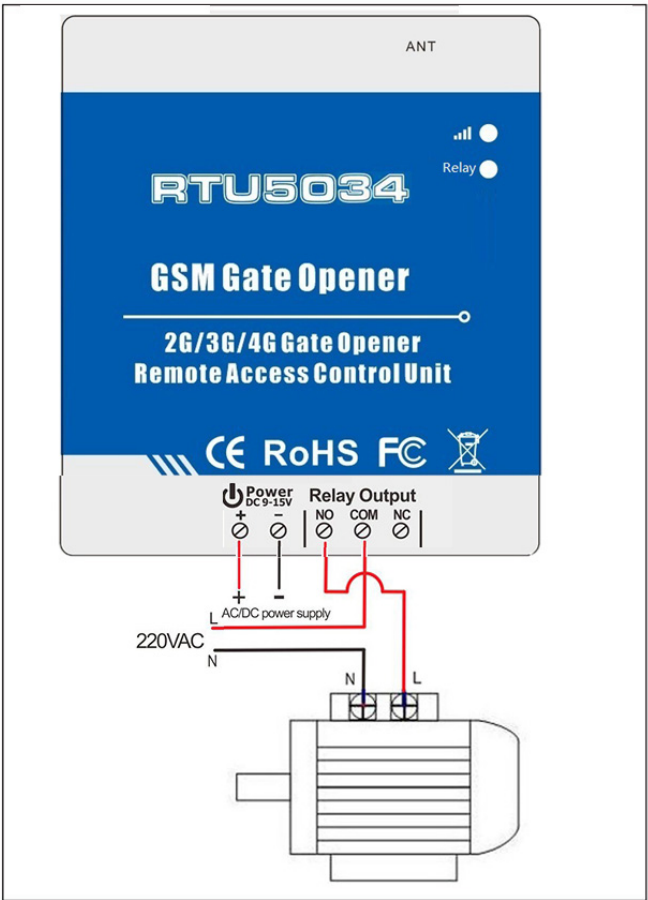**Use Qualified Maintenance Service**
Maintenance can be carried out only by qualified maintainer.

3. Diagram

INDICATORS	
Relay	**ON:** Relay closed(ON). **OFF:** Relay open(OFF)
☷	**Flash per 0.8 second(quickly):** registering to cellular network. **Flash per 2 seconds:** Normal status. **OFF:** can't connect to SIM card or unregistered to the cellular network
Connection Terminals	

Power	**+**	Power supply input, Positive wire(Red).
	−	Power supply input, Negative wire(Black).
Relay Output	**NO**	Normally Open port
	COM	Common port
	NC	Normally Close port
ANT	Connect to GSM antenna.	

4. Typical wiring connection:

1.   RTU5034 for Gate opener:

Power up the RTU5024 and electronic lock by same DC source, the

lock switched ON/OFF by phone call.

2.   RTU5034 for remote switch:

The pump switched ON/OFF by phone call. Pump power up by the

grid/electricity, and RTU5024 power up by AC/DC adaptor.

5. Installation and Settings

Notice:

1. The default Password is **1234**.
2. You can program the RTU5034 with SMS commands using your phone. It is safe to do so because in addition to the fact that other people may not know the number of the SIM inserted in it, we also use a Password that makes it impossible for others who doesn't know it, to access the system by chance, and all the action will be recorded.
3. The relay output will change the close or open status by every call in, please note it. Means the first time call it, it will close the relay to switch on the lock, if the second call in is in the setting time, then the unit will ignore the setting time, and open the relay, to switch off the lock.
4. Remember that commands must be **CAPITAL LETTERS**. It is AA not aa, EE not Ee etc. Don't add spaces or any other character on the SMS commands.
5. The **pwd** in the command means the password, like 1234 or 5678 if you changed.
6. If the RTU5034 used for gate access only, all you need to do is to change the default password and add the authorized numbers.
7. If you cannot call to control the RTU5034 or cannot send or receive any SMS message from it. please try to add **+** in front of the country code or the phone numbers:

For example:

In China, the country code is **0086** The user cell phone number is **13570810254** and has been assigned as the SMS Alert number, the SIM Card number in the panel is **13512345678**.

Problem 1: Alarm but the user hasn't received the SMS Alert.

Solution: Please plus the country code while you setup the 13570810254 as SMS Alert number, means setup **008613570810254** instead of the ~~13570810254~~.

Problem 2: The user number can receive the SMS Alert message from alarm panel, but the alarm panel can not receive the commands from the user number.

Solution: Please add country code to the SIM Card number in the alarm panel. Means send SMS commands to **008613512345678** instead of ~~13512345678~~.

Solution 3: Use mobile phone A to call mobile phone B, the number displayed on B is which you should set as the dial number; Use mobile phone A send SMS to mobile phone B, the number displayed on B is which you should set as the SMS alert number; sometimes you may need to use the 00 to replace the + or use the + to replace the 00 on front of the country code.

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8. For security purpose, the RTU5034 will NOT return any SMS if command error, so please make sure and check the SMS Commands, or add the country code before the telephone number or check the input is in ENGLISH INPUT METHOD and CAPS LOCK, and no space on the command content.
9. Search **GSM Gate Opener RTU5034** on **Google Play** store to download the APP for easy configuration!
10. The SMS commands that you will certainly use in the RTU5034 are the following:

Installation: Open the SIM card cover on the back side of RTU5034,insert your SIM Card.

5.0 Start (this step is MUST):

Send | **pwdTEL***phone number of the RTU5034***#** | **to the RTU5034 for adjust the time.**

E.g.: **1234TEL00861351015#** "00861351015" is the SIM card number which inside of the RTU5034.
Return: Set Success!

Notice：

If the RTU5034 cannot working well in the exactly time, then send the SMS command to adjust time
manually as below:

Send | *pwd* **T**current time | **to the RTU5034 for adjust the time manually.**

E.g.: **1234T 1601131300#**

T:Command Code.
Current Time: yy(year)mm(month)dd(day)hh(hour)mm(minute).
Return: Set Time OK!

5.1 Change Password

| **1234P***new password* |

E.g.: **1234P6666** for change the new password to 6666.
Return: "Password changed to 6666, please remember it carefully." if password changed successfully.

5.2 Authorized User number managerment

5.2.0 Add authorized user:

| **pwdA** *serial number* **#** *phone number* **#** *start time* **#** *end time* **#** |

A:command code.
serial number: the authorized user's position, from 001~200.
start time:yy(year)mm(month)dd(day)hh(hour)mm(minute).the start time of this number can call in to control.
end time: yy(year)mm(month)dd(day)hh(hour)mm(minute).the end time of this number can call in to control.
Without start time and end time means: Always can call in to control.
E.g.: **1234A003#123456#** to set the phone no.123456 at the 3rd position and always can call in to control.
E.g.: **1234A016#123456#1502050800#1502051000#** to set the phone number 123456 at the 16th position,
this number can call in to control during Feb 5th 8:00a.m.(1502050800) to Feb 5th 10:00a.m.(1502051000).

Note: 1. The authorized number means the one who can dial the RTU5034 to control the relay.
2. The Serial Number is the position to store the authorized users, from 001~200.

5.2.1 Inquiry the Authorized user's position(serial):

| **pwdA***serial number***#** |

E.g.: **1234A002#** to check the number on the 2nd position(serial number2).

5.2.2 Inquiry batch users number

pwdAL_serial number start_**#**_serial number end_**#**

E.g.: `1234AL002#050#` to inquiry the authorized numbers from the 2nd to the 50th,RTU5034 return several SMS with the numbers list(10 numbers on each SMS).

5.2.3 Delete the Authorized User's Number(or you can overwrite this position with another number).

pwdA_serial number_**##**

E.g.: `1234A002##` to delete the 2nd authorized number.

5.3 Relay Control setting

5.3.1 Allow all numbers can call in to control:

pwdALL#

5.3.2 Allow only the authorized numbers can call in to control(Caller-ID for security, default):

pwdAUT#

5.3.3 How long time the relay keep close(ON) after phone call in (unit: second)

pwdGOT_close time_**#**

close time=000~999. Unit: Second

close time=000: relay close 0.5 second then open (use the relay as Latch).

close time=999: relay will always keep close(ON) after call in until the next call in.

E.g.: **1234GOT030#** to set relay close 30 seconds(ON) and then open(OFF) after call in.

5.3.4 Who will receive the confirmation SMS when the relay is ON/OFF

pwdGONab**#**_content_**#** for relay ON,   **pwdGOFF**ab**#**_content_**#** for relay OFF.

ab: the ID code of the 1st number(a) and the caller number(b), =0 means disable, =1 means enable.

content: confirmation SMS content.

ID code		RTU5034 send notify SMS to	
a	b	The 1st number	Caller number
0	0		
0	1		√
1	0	√	
1	1	√	√

E.g.: **1234GON11#Door Open#**

The 1st number & the caller number receive confirmation SMS when relay is ON(door opened).

E.g.: **1234GOFF00#Door Close#**

The 1st number & the caller number will not receive confirmation SMS when relay is OFF(door closed)..

5.3.5 No need confirmation SMS when the relay is ON/OFF.

pwdGON##   **pwdGOFF##**

5.3.6 Control the relay ON/OFF by SMS command

pwdCC   Return SMS: Relay ON (or the SMS confirmation content which you modified before)

pwdDD   Return SMS: Relay OFF(or the SMS confirmation content which you modified before)

The relay close timer according to the before setting 5.3.3:   **pwdGOT**_close time_**#**

5.4 Others:

5.4.1 Self-check auto report SMS to the 1st number. (unit: hour)

pwdT#_xxx_**#**

xxx=000~999

xxx=000, default,no self-check auto report.

Auto report SMS including:

Relay status;

GSM signal value(full is 31,cellular signal weak if lower than 14)

Inquiry the self-check and auto-report time

pwdT#

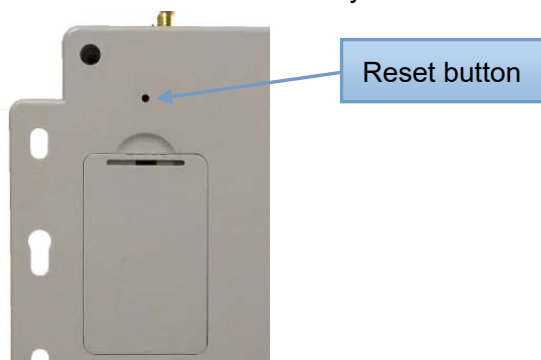### 5.4.2   Inquiry current status

pwdEE

5.4.3   Inquiry the GSM modules' IMEI code and firmware version

pwdIMEI#

5.4.4   RESET

Switch ON the device, insert into the reset hole with a pin,hold for about 5 seconds and release it.

This operation will reset the password to default 1234 and other parameters, but the authorized users numbers will remain on the memory.

Reset button

6. Important information

1) Please read the User Manual carefully before you install and control the RTU5034.
2) Install the RTU5034 in a hidden place.
3) Avoid getting water into the RTU5024.
4) Have a secure connection to the main power supply.

7. Maintenance

1) In case of failure, please contact the distributor or manufacturer.
2) If the RTU5034 works but fail to send SMS texts, switch the power off and on again after one minute. Test it after few minutes later, or ensure and check the settings are correct and the cellular signal strong enough.
3) If the RTU5034 works well with sensors but cannot send SMS texts, please change a SIM Card from another Mobile Operator's, and then testing again.
4) Please contact the distributor or manufacturer if the problem can't solved.

8. Warranty

1) The RTU5034 is warranted to be free of defects in material and workmanship for one year from the date of purchase.
2) This warranty does not extend to any defect, malfunction or failure caused by abuse or misuse by the Operating Instructions. In no event shall the manufacturer be liable for any alarm system altered by purchasers.

The End!

Any questions please help to contact us feel free.

9. Authorized users list (print this page and fill in for record)

Position	User Phone number	User Name	Always	Specific time access
1				
2				
3				
4				
…				
…				
200				