

GSM Door Opener Manual



Model:

1. PFGOGSM: 1 Output 2 Inputs

Please read these instructions completely before use

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Thank you for purchasing GSM Door Opener. Please read this manual carefully before using. Be sure to keep this manual for future reference in case of any problems happen.

1. SAFTY PRECAUTIONS

- 1. Unplug the power adapter before cleaning. Do not use liquid cleaners or aerosol Cleaners a damp cloth for cleaning.
- 2. Do notuse this product near water.
- 3. Do not use this product near an area where there is a potential of gas leaks or near any fumes that can be explosive.
- 4. Do notplacethis equipment near or over a radiator or any other heat source.
- 5. Do not overload the wall outlet or power cord where the power adapter is installed. This can result in fire or electric shock
- 6. Avoid spilling liquid on this equipment and do not insert any objects through the Ventilation slots
- 7. Avoid using the equipment during an electrical storm. There is a remote risk of electrical shock from lighting.

2. BRIEF INTRODUCITON

GSM door opener is a GSM switch remote control system which can activate automatic gates with a free call from you mobile phone. The users' phone numbers are programmed into the device by SMS or call. The device recognizes incoming Caller ID and drop the call before switching. With this system you can authorize up to 100 phone numbers to open the gate or door at no cost

Use of GSM Door Opener at your company or house does not require any special installation and wiring. Simply install the GSM Door Opener and connect the door latch and power supply.

This model with 2 inputs included input 1 and 2 can monitor the status of an electrical circuit when the circuits state changes, the GSM opener will send an SMS messages to all of the nominated alarm contact saved on the unit.

3. Product Features:

- 1. Simple to use, easy to program.
- 2. Programming via SMS command.
- 3. Ideal for remote control of automatic gates, barriers, doors, central heating systems, home
- 4. Send SMS notification when a short circuit exists on inputs
- 5. 100 telephone numbers memory for access control by caller ID automatic number recognition at no call cost to user.
- 6. To open the gate/door by password with 4 digit codeaccess optioin the number is not stored in the access control section.
- 7. 2 inputs for switchingcontacts (alarm output, sensors)etc.
- 8. Automation, industrial process, intruder alarm dialer and more.

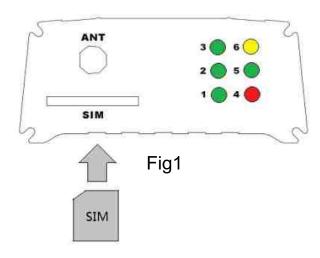
4. STANDARD PACKING LIST

Item	Description	Q'ty	Included	Optional
1	GSM door opener	1	©	
2	Adapter	1	0	
3	Short Antenna	1	0	
4	External Antenna 3 meter length	1		©
5	Bracket for antenna	1		0
6	Manual	1	0	

4. INSTALLATION:

5.1 SIM CARD INSTALLATION (F ig1)

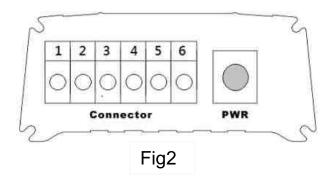
- 1. Ensure powers off before instering or removing the SIM card
- 2. Register your SIM card with the network, and check it works in a mobile phone
- 3. Remove the PIN request from the SIM before inserting it in the unit
- 4. Inset the SIM card (note orentation of notched corner)
- 5. Make sure the SIM is fully inserted



5.2 ANTENNA CONNECTION

- 1. Ensure that there is good network reception at the location where it wil be installled.
- 2. If you use a 3 meters antenna install it as high as possible on the top of the pillar for best possible reception

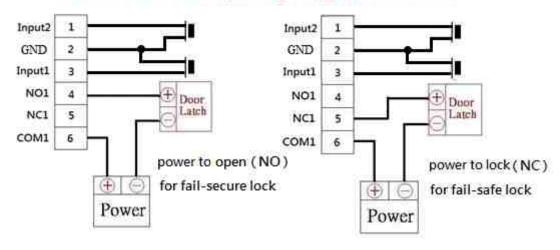
5.3 WIR ING DIGRAM (Fig2 & Fig3)

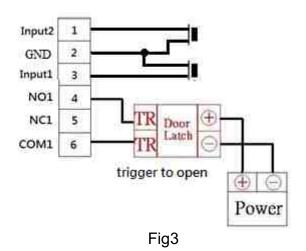


Interface instroduction:

1	INPUT2	4	NO1
2	GND	5	NC1
3	INPUT1	6	COM1

Use either NO or NC depending on types of door lock





5.4 POWER SUPPLY

The GSM door openeis designed to work with power supplies 12V~24V AC/DC.

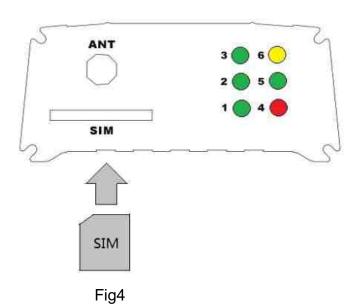
The power supplyhould be capable of supplying a constant current of no less than 1 amp

After a final check of wiring switchon the power. allow 20~30 seconds for the unit to boot up and detect the network. Once successful connection has been made, the unit will sound a confirmation tone and the status LED will begin flashing.

YOU <u>CAN</u> CUT THE PLUG OFF AND USE THE WIRE TO CONNECT TO 24v SUPPLY

If you do the above ensure the black wire with long white printed dashes only is connected to 24v +

6. LED INDICATORS



LED Number		LED Status		
Number	Definition	Solid	Off	Flash
1	Trigger input 2	Input2 active & Sending SMS	Standby	In triggering setup time (17+Time#)
2	Trigger input 1	Input 1 active & Sending SMS	Standby	In triggering setup time (15+Time#)
3	Output Relay 1	Relay1 ON	Relay1 OFF	X
4	Power	Power ON	Power OFF	X
-	001411		M I I OFF	Flashes once per second (Search network)
5	GSM Network	busy	Module OFF	Flashes once per 3seconds (Standby)
6	Device status	Standby	Power OFF	Flashes once per second (No SIM inserted)
				Flashes twice per second (SIM not registered)



Parking Facilities GSM Door Opener

Quick Instructions

Basically this unit will operate via TEXT or by CALLING in to the Unit.

The number that I will use as an example on this unit is **07595 062 810** which by the way, is the number you can call if you want to get some tech support. Try and follow the instructions first before calling as I am quite busy!.

Kind Regards

Damian Speer

Step One

Tell the GSM unit that the telephone you are using is authorised to make changes:

Via Text

- 1. Open a new text message to the sim card number in the GSM unit
- 2. Enter: *12*1234#7407595062810#
- 3. You will receive a text back stating 7407595062810# OK

Via Phone

- 1. Call the mobile phone sim that is installed in the GSM opener
- 2. Enter: *12*1234#7407595062810#
- 3. You will hear 1 continuous bleep for success
- 4. If you hear 3 short bleeps then you have miss-typed the code/numbers.

This number is now authorised to program the unit using the rest of this manual.

To Send an Open Command Quick Guide

Via Text

- 1. Open a new text message to the sim card number in the GSM unit
- 2. Enter: *71*5678# (Pulse open)
- 3. Enter: *72*5678# (Latch open)
- 4. Enter: *73*5678# (Un-Latch open)

Via Call

- 1. Ensure that you have programmed an authorised number in before this step text: (*12*1234#7144#72107595062810#)
- 2. Simply Call the GSM mobile number you will hear 1 bleep for successful open. If you hear 3 short bleeps this number was not authorised properly.

7. OPERATION

Programming of the telephone numbers in and whenever the unit receives a call will recognize an authorized telephone number calling it and will then reject the call without answering (so there will be no charge) and open the gateor door. The relay can also be temporarily or permanently switched on or off by sending SMS or dialing in.

This GSM Opener can allow user to gain access from their mobile phone by two methods

- 1. CallerID recognition
- 2. by access control password mode

1. Caller ID recognition to open

Ring in to open the door for authorized telephone number.

2. Access control password to open

Dial the SIM card telephone number. The unit will answer the call and you will hear a bleep tone. The door can be opened after enter correct pass code.

To trigger door by pressing *71*5678#
To latch or hold door by pressing *72*5678#
To unlatch door by pressing *73*5678#

Please note you must see Page 11 Step 9 to authorise a telephone number to make programming changes first!

8. Programming

Programming can be carried out either by text message or by dailing into the GSM door opener.

8.1 Programing by dialing in

Dial the SIM card telephone number. The unit will answer the call and you will hear a bleep tone.

Enter Programming Modeby Pressing...

12 **1234**# (1234 is default password)

A successful pass code will produce a single long beep A failed attempt will produce 3 short bleeps. Example: start to program the phone number for dialing in to open the door.

Use the following commands to program the unit

- * Insert international country code (1~3 digits):71 [country code]#
- * Add a number (up to 100 numbers): 721 [phone number]#
- * Delete a number: 73 [phone number]#
- * Delete all numbers:73*#

^{*}Above operation same as sending SMS commands

^{*}This is for door open option for telephone numbers not stored.

Note:

- *programming dialing in carlt be used from telephones which are already programmed to open the door when they dial the GSM door opener.
- * If the number is programmed to open the door but you still would like to use the same number to dial in for programming, then you can **disable Caller ID display (withhold the number)** on the mobile.

8.2 Programming by text message

Programming by text message is the simplest way to customize the settings of the GSM door openerand add or delete telephone numbers. Simply send texts in the format to the telephone number of the SIM within the GSM door opener.

Note:

- 1. A Single SMS text messages is limited to 140 characters
- 2. You can program many different user command codes in single a text message with SMS command format.*12*1234#[command Code1] #[command Code2] # [command Code3] #........
- 3. Each SMS must start with the pass code , default 1234 in the following format*12*1234# Followedimmediately by a command

Program with the following format

*12*1234#71[country code] #721[phonenumber]#721[phonenumber]#721[phonenumber]#..... Country code: 1~3 digits, for Ireland insert 353, UK insert 44,USA insert 1(Do not using any leading zeros)

The passcode *12*1234 only needs to be put at the beginning of each new message.

Example:

UK Country code: **44**086 5683624(mobile number)1
0865682554 (mobile number)2
0862235644 (mobile number)3

SMS format:

*12*1234# 71 44 #7210865683624#7210865682554#7210862235644#

To delete phone numbers of dialing in to open

SMS format: (to delete phone number 1 and 2) *12*1234#730865683624#730865682554#

SMS format: (to delete all numbers)

*12*1234#**73***#

After thenumbersareprogrammed/ou can also send the text message to check the stored numbers by sending SMS format*22*1234#, then the GSM openerwill reply the phone number list text message.

9. ADMINISTRATOR NUMBER THIS MUST BE DONE BEFORE ANY OTHER PROGRAMMING

Once the administrator number is stored in the unit whether programming via dialing in or text messages can only carry out by this number.

Example:

Programa mobile number as an administrator number via SMS Mobile number 0865682554 Commandto use*12*1234#74 [Admin number]#

SMS format *12*1234#74086568255#

To delete the Admin number *12*1234#74*#

10. CHCK SIGNAL STRENGTH

When a request for GSM signal strength SMS command is sent to the GSM Opener, the unit should rely with a signal strength code and service provider name. The code will be between 0~31 means the signal level is from poor to best.

Example:

SMS format *21*1234#

SMS reply Vodafone Signal Level = 31 [Signal is very strong]

11. CHECK RELAY STATUS

You can send SM&mmand code check relay status.

SMS format*24*1234#

SMS Reply Relay: [status = Hold / release / trigger

Input 1:[status] Input 2[status] (status=high / low)

12. HOW TO RESET THE UNIT WHEN YOU FORGET THE PASSWORD

- 1. To keep the red button pressed on the PCB
- 2. Then power up and wait for 5 sec
- 3. After you see LED 1 and startsto flash which means it's resetting.
- 4. Release theed button

13. USER COMMANDS

User commands list

No.	Command	Description	settings	Default
1		Change password of Programming Mode	password:4-6digits	1234
2		Change password of Access control Mode	password:4-6digits	5678
3	11[Time]#	Door operconfirmingtime	Time = 0~99 seconds	0 sec no delay
4	12[Time]#	Relay 1 activation time	Time = 1~9999 seconds	1
5	14[Time]#	Activation time wherinput 1 is trigged	Time = 1~9999 second	0 sec no delay
6	16[Time]#	Activation timewheninput2 is trigged	Time = 1~9999 seconds	0 sec no delay
7		Sending SMS duration whenput 1 continuestriggering	Time = 0-60 minutes	0 min no delay
8	17[Time]#	Sending SMS duration wheimput 2 continues triggering	Time = 060 minutes	0 min no delay
9	18[Statu ş #	SetInput1 status	Statu s 0 or 1 0=N.O 1=N.C	0
10	19[Statu ş #	SetInput 2 status	Status 0 or 1 0=N.O 1=N.C	0
11	20[mod]#		Mode= 0 or 1 0 = Egress ,1 =Trigger	1
12	21[mod ₫ #	l	Mode= 0 or 1 0 = Egresş1 =Trigger	0
13	71[country cod }#	To setcountry code	Country code= -3 digits (UK:44 / USA:1)	886
14	721[phonenumber#	Storephone number For ringing in to operthedoor (max 100 numbers)	Phonenumber=3~14 digits	N/A
15	73 [phonenumber#	Delete a ring in to open number	phonenumber=3~14 digits	N/A
16	73*#	Deleteall ringing in to opennumbers		ja de la companya de

No.	Command	Description	settings	Default
17	74[adminnumber]#		adminnumber=3 ~14 digits (no number no restriction)	N/A
18	74*#	Delete administrator phone num		
19	2 22.	when inputs are triggered.	N=1~3(sequence of pho number) phonenumber=3~14 digits	N/A
20		Delete nobile numberof alarmcontact wheninputs are triggered.	N=1~3(sequence of phor number)	N/A
21	999#	Reset		

User commands list (to check system info & control relay via SMS)

No.	Command	Description	SMS Reply
1	*12*1234 # [command Code 1] # [command Cod 2] # [command code 3] # [command code 4] #		Successful:command Code# OK Failed: command Code# Error
2	*21* 1234#	checkGSM signal strengthand operator	Signal Level =0~31 From poor to strong
3	*22* 1234#	Replylist of ringing in to open phone number	[numbefl]#[number2]#[number鍋 E:Next page N: End
4	*23*1234#	Replylist of alarm contact numberswheninputs are triggered	: [numbeff]#[number2]#[number銷
5	*24*1234#	Checkrelayandinputs status	Relay 1: status (status-old/release trigger) Input1: statuss(tatus=high / low) Input 2:statuss(tatus=high / low)
6	*31*1234#[SMS conter]#	StoreSMS content when input 1 is triggered.	SMS contentmax 100 characters
7	*31*1234#	To check input 1 SMS content	Default SMS" trigger 1 is active
8	*32*1234#[SMS conten]#	StoreSMS content when input 2 is triggered.	SMS content=max 00 characters
9	*32*1234#	To check input 2 SMS content	Default SMS "trigger2 is active"
10	*71*5678#	Trigger relay 1 (You can't trigger when relay is on hold status beforeyou release it)	No reply
11	*72*5678#	Hold relay 1	No reply
12	*73*5678#	Release relay1	No reply

14. SERIAL MODELS:

Model NO.	Description
PFGOSAM-01	2 OUTPUTS GSM Door Opener

15. SPECIFICATION:

Operating Voltage	12~24 volts AC/DC
Operating Current	Maximum 250mA, typically 55mA
GSM Module	Cinterion -Germany
GSM Frequency	GSM 850/900/1800/1900 or GSM 900/1800 MHz
Power Consumption	Standby: 42mA/hr / Relay on: 83mA/hr
Physical size	9.5 (L) X 6.0 (W) x 2.5 (H) cm
Antenna	Short Antenna
Humidity	Less than 80% RH
Operating Temperature	-20°C to 50°C

Thank you for purchasing our products.