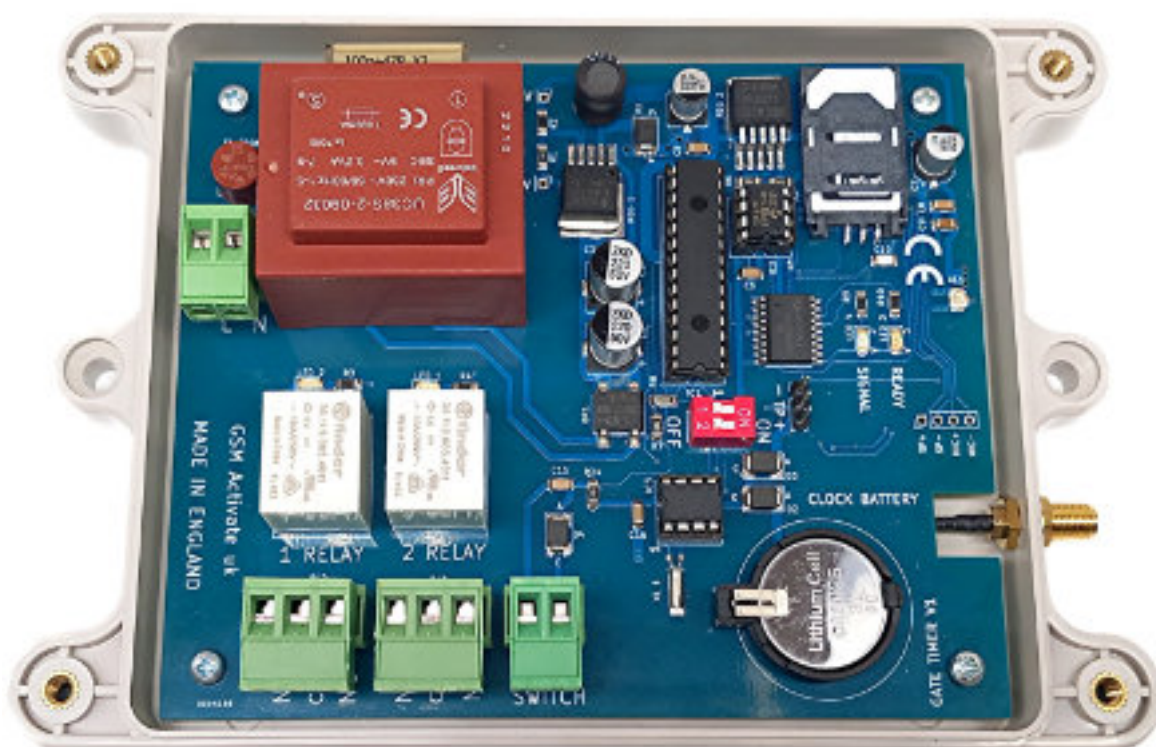




# GSM 2G/4G GATE OPENER PLUS 240 VDC



MODEL NUMBER GSM-4G-GATE\_PLUS -V2

## Product Information

The GSM 2G/4G Gate Opener Plus incorporates a professional industrial grade GSM engine that receives calls at its sim number, as any ordinary GSM phone. The system operates in the GSM module quad-band 850/900/1800/1900/2100mhz and has 2G and 4G capabilities when using a 2G or 4G simcard.

Just to give an example, if your SIM has a phone number 9228 9810555, this is the number you call to open the gates. The system has a memory where you will store the numbers of people enabled to open the gate (up to 100). When the Gate Opener receives a call, it will check the calling number. If the number is a stored number it will open the gate.

The advantages of this over other systems is that you do not have to leave your car to open the gates, avoiding weather and safety issues. Furthermore, you do not need to carry around a separate remote device or indeed replace it if it were to get lost!

## Specification

- Simply Dial the Simcard Number to Open the Gate. It will Reject the Call Avoiding Charges Being Incurred.
- Phone List for Added Security (up to 100)
- Text for Signal Strength
- Text for Fast/Slow Relay Pulse
- Text to Operate Relay 1 or 2 - example hold gate open or pedestrian access.
- Set Schedule to open gates on a timer.
- Standard Size 4G simcard
- Gate Hold On / Off
- Trade button On/Off
- Sim Active Function
- Dimensions - L150 x W90 x H45mm
- Dimensions PCB Only - L125 x W67mm
- Operating Temperature -10 to +40c
- INPUT 240 VAC OR ( 12 v d c or 115VAC is available)
- Output Relays are 10Amp N/O or N/C Volt Free
- Quadband Frequency - 850/900/1800/1900/2100mhz
- 4G Bands : B1 -B5, B7 - B8, B12 - B14, B18 - B20, B25 , B26, B28 , B66, B71
- No Need to Keep Replacing Remote Keyfobs When They are Lost

## SIM Active Function

Our GSM Gate Opener comes with a SIM Active function meaning that it will send a message every six weeks to a preprogrammed number to prevent the SIM card being shut down due to inactivity.

## Instructions

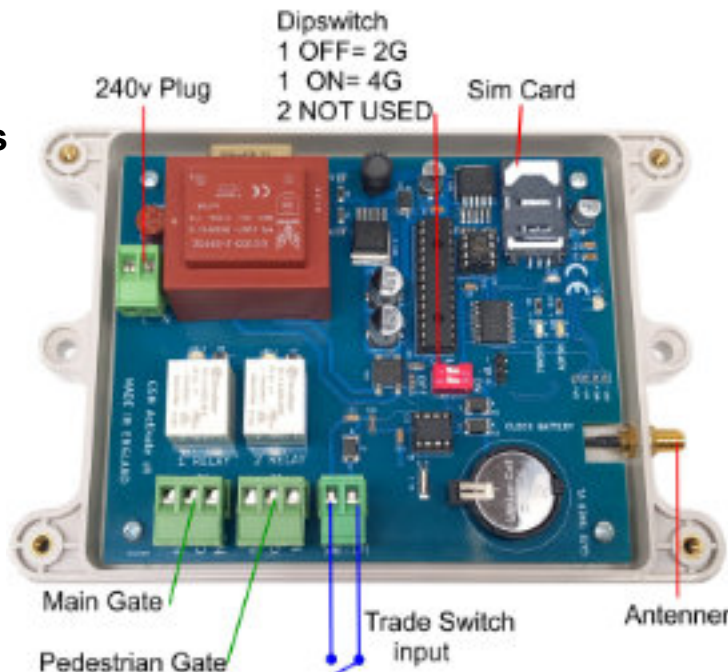


figure 1

### IMPORTANT - PLEASE READ

Please make sure you disconnect the power when you fit the simcard.

Unlock the simcard Holder, and then slide in the simcard, making sure that the clipped corner of the simcard is facing outward, and then lock back into place .

### Powering the 2G/4G Gate Opener

Connect 240 a/c volts to the input connector as per figure 1. Once power has been applied the blue network LED light will flash once every second. Once a signal has been found the green ready LED will come on and stay on indicating the unit is ready to use.

### Signal Strength

To help ensure that you place the unit in a suitable position you can text the unit

#SIGNAL#

The dialler will perform a test on the signal strength. You will then receive a signal strength score of between 0 up to 30. We strongly recommend that place the unit where you can receive a signal strength score of at least 10. Anything less than that will render the unit unreliable.

### 2G or 4G

The GSM Gate Opener can work on both 2G and 4G networks depending on which model you have. You can choose which network the unit will use at the start up using the following dipswitch settings

Dipswitch 1 OFF = Connects to 2G

Dipswitch 1 ON =Connects to 4G

We strongly recommend checking the signal strength on 2G and 4G and using which has the highest signal strength score. The signal strength should be at least a score of 10 for reliability.

## How to programme the 2G/4G GSM Gate Opener

Once the unit has a **green** LED light it is ready to use. The unit has a caller ID function so only authorised numbers you store can activate the unit. If caller ID is left OFF anyone phoning the units number can operate the relays.

**Please Note** - We have colour coded the **HASHTAG** and **EQUALS** symbols to make it easier.

To turn caller ID on send a text message

**#ID=ON#**

To turn caller ID off send a text message

**#ID=OFF#**

**NOTE** - If you do not require authorised users please skip to the next page.

### Programming Caller ID

To programme a number to the caller ID (WHL), send this text message code:

**#WHL=NUMBER#**

To delete the number send the text message code

**#DEL=NUMBER#**

Example	<b>#WHL=07123456789#</b>	Stores your mobile number (max 100 users).
	<b>#DEL=07123456789#</b>	Deletes your mobile number

If the code is accepted the unit will reply "WHL NUMBER STORED" or "WHL NUMBER DELETED"

**PLEASE NOTE** - You can only send one number at a time. Please send the message and wait for the text acknowledgement before you attempt to add another number.

Please ensure that you have credit on the simcard to receive the text acknowledgement. It may take some time to receive a text acknowledgement depending on how busy your telephone provider is at the time.

### Reset Function

For a quick reset and to clear all numbers there is a built in reset function that can be triggered by sending the text

**#RESET#**

The unit will remove all WHL numbers stored and return to factory settings

## How to use the 2G/4G Gate Opener

Using your mobile phone or landline, dial the simcard number. You will hear 1 ring tone. The unit will automatically hang up. This will prevent any call charges being incurred. The relay will then pulse for a period of time. This is the unit sending the signal to your gate control board to open the gate.

**IMPORTANT - PLEASE READ** - Calling in using the 4G mode can currently be inconsistent due to several factors such as, signal strength, voice over LTE (4G calling) being available on simcards and phone etc. If you experience unreliability on 4G Please boot the unit up using 2G depending on which has the better signal strength

### Relay Pulse Time

The unit has an adjustable relay pulse time for the call activation, and for the scheduled times Relay 1 can pulse from 1 to 9 seconds as some gate controls need a very quick pulse And others need a slower pulse.

To change the pulse time you will need to send the text message

**#RPT1=5#** - Sets the relay 1 pulse time to 5 seconds

The default setting is 5 seconds

### Pedestrian Access

Relay 2 controls the pedestrian gate. You will need to text the unit

**#PED#**

Relay 2 can pulse for 1 to 9 seconds as some gate controls need a very quick pulse And others need a slower pulse.

To change the pulse time you will need to send the text message

**#RPT2=5#** - Sets the relay 1 pulse time to 5 seconds

The default setting is 5 seconds

### Texting the Gate to Open

If you need keep the gate permanently open or for a longer period of time, you can send the text command:

**#LOCK=OPEN#**

To close the gate send command

**#LOCK=CLOSED#**

This will cancel the relay and close the gate

### IMPORTANT - PLEASE READ

Some gate systems do not have the facility to allow the gate to stay open. Please refer to your gate control system manual for further information

# Setting the Clock

To programme the unit you will need to send the following text messages

. **Note:** The time has been set when leaving the factory.

it will automatically adjust for British Summer Time (24 hour clock) .

Setting the clock. All text commands can be in upper or lower case.

Example : (text commands)

**#SET\_CLOCK=09:30\_MON\_29/04/25#**

Abbreviation **MON,TUE,WED,THU,FRI,SAT,SUN.**

Current Time,Day, Month,Year. The unit will remember the time as it has its own battery backup.

To read the clock.

Example : (text commands)

**#READ\_CLOCK#**

This will send you a text message of the saved time.

## Scheduled setting times to GATE HOLD OPEN

We have two schedules A and B, this will allow the gates to be held open twice a day.  
By holding on relay 1

All text commands can be in upper or lower case , using 24 hour clock.

### Setting the schedule (A)

It is possible to setup seven individual days.

Example: (text commands)

#SET\_SCH\_A=08:00\_MON\_12:00#

#SET\_SCH\_A=08:00\_TUE\_12:00#

#SET\_SCH\_A=09:00\_WED\_12:00#

#SET\_SCH\_A=07:00\_THU\_12:00#

#SET\_SCH\_A=09:30\_FRI\_12:00#

#SET\_SCH\_A=09:30\_SAT\_13:00#

#SET\_SCH\_A=09:30\_SUN\_13:00#

Example: To cancel a Schedule

#SET\_SCH\_A=00:00\_FRI\_00:00#

### Setting the schedule (B)

It is possible to setup seven individual days.

Example: (text commands)

#SET\_SCH\_B=13:00\_MON\_17:00#

#SET\_SCH\_B=13:00\_TUE\_17:00#

#SET\_SCH\_B=13:00\_WED\_15:00#

#SET\_SCH\_B=13:00\_THU\_14:00#

#SET\_SCH\_B=13:00\_FRI\_16:00#

#SET\_SCH\_B=14:30\_SAT\_16:00#

#SET\_SCH\_B=14:30\_SUN\_16:00#

Example: To cancel a Schedule

#SET\_SCH\_B=00:00\_MON\_00:00#

Abbreviation MON,TUE,WED,THU,FRI,SAT,SUN.

### To list all scheduled tasks

Example: (text commands)

#LIST\_SCH\_A# This will send you a text message with all the A saved scheduled time's

#LIST\_SCH\_B# This will send you a text message with all the B saved scheduled time's

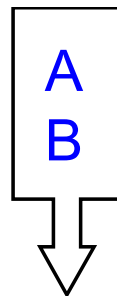
We have two schedules A and B, this will allow the gates to be held open twice a day.

### Block schedule

To set the same times to multiple days you can use block settings.

Example: (text commands)

Schedule A  
or  
Schedule B



Monday to Saturday  
Monday to Friday  
Saturday to Sunday

#SET\_SCH\_A=09:30\_M\_S\_13:00#

Note: Please make sure you send text command #GATE HOLD=ON# To activate the above.

To turn off the #GATE HOLD=OFF#

#STATUS# This will give you a status report on trade button, and gate hold open, if its set to, on or off



## Trade Button /Push to exit

Schedule (T) is for the operation of the Trade Button /push to exit

When a time schedule is setup, pressing the trade button will Pulse Relay 1 for set pulse time (RPT settings see page 5)

All text commands can be in upper or lower case.

### Setting the schedule (T)

It is possible to setup seven individual days.

Example: (text commands)

#SET\_SCH\_T=08:00\_MON\_12:00#

#SET\_SCH\_T=08:00\_TUE\_12:00#

#SET\_SCH\_T=09:00\_WED\_12:00#

#SET\_SCH\_T=07:00\_THU\_12:00#

#SET\_SCH\_T=09:30\_FRI\_12:00#

#SET\_SCH\_T=09:30\_SAT\_13:00#

#SET\_SCH\_T=09:30\_SUN\_13:00#

Example: To cancel a Schedule

#SET\_SCH\_T=00:00\_FRI\_00:00#

### To list scheduled T

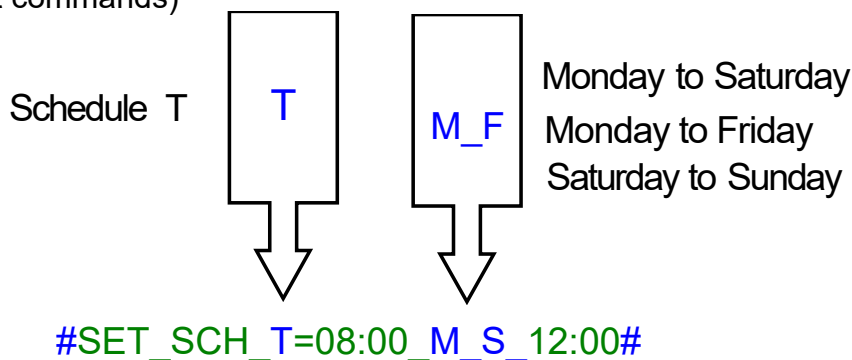
Abbreviation MON,TUE,WED,THU,FRI,SAT,SUN.

Example: (text commands)

#LIST\_SCH\_T# This will send you a text message with all the T saved scheduled time's

### Block schedule T

Example: (text commands)



Note: Please make sure you send text command #TRADE=ON# To activate the above

To turn off the trade button text #TRADE=OFF#

#STATUS# This will give you a status report on trade button, and gate hold open, if its set to, on or off



## Quick Reference

Send Text	Operation	Acknowledgment
#LOCK=OPEN#	Locks Relay 1 On	Gate Open
#LOCK=CLOSED#	Release Relay 1 to Off	Gate Closed
#SET_CLOCK*09:30_MON_01/01/25	Set Clock to Actual Time and Date	
#SET_SCH_A=13:00_MON#17:00#	Sets the Schedule A for Each Day	Schedule Set
#SET_SCH_B=09:30_MON#12:00#	Sets the Schedule B for Each Day	
#SET_SCH_T=08:00_MON#12:00#	Sets the Schedule T for Each Day	Schedule Set
#PED#	Pulses Relay 2	Gate Open
#LIST_SCH_A#	Sends The Current Stored A Schedules	Shows Schedule
#LIST_SCH_B#	Sends The Current Stored B Schedules	Shows Schedule
#LIST_SCH_T#	Sends The Current Stored T Schedules	Shows Schedule
#TRADE=ON#	Turn Trade Button On	Trade On
#TRADE=OFF#	Turn Trade Button Off	Trade Off
#STATUS#	Gives Status Report	Shows Status
#READ_CLOCK#	Sends the Current Stored Time	Sends Stored Time
#RPT1=5#	Sets Relay 1 Pulse time to 5 Seconds	Relay 1 Set
#RPT2=5#	Sets Relay 2 Pulse time to 5 Seconds	Relay 2 Set
#WHL=NUMBER#	Stores Number to White List	Number Stored
#DEL=NUMBER#	Deletes Number from White List	Number Delete
#ID=ON#	Turns Caller ID On	ID = ON
#ID=OFF#	Turns Caller ID Off	ID = OFF
#RESET#	Clears all numbers from White List	
#SIGNAL#	Gives a Signal Strength Test	Score of 1 - 30

For more technical support please browse the FAQ's on our website

**[www.gsm-activate.co.uk](http://www.gsm-activate.co.uk)**

Alternatively email our technical support team at **[technical@gsm-activate.co.uk](mailto:technical@gsm-activate.co.uk)** and we will do our best to reply within 24 hours Monday - Friday.

[www.gsm-activate.co.uk](http://www.gsm-activate.co.uk) - 01273462380 - [sales@gsm-activate.co.uk](mailto:sales@gsm-activate.co.uk)