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Security
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2 BUTTON GSM INTERCOM WITH KEYPAD

Control your gate with your mobile phone



Product Information

The GSM 3G Gate Intercom 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 incorporates 3G capabilities. This Intercom works with both 2G and 3G Simcards.

When a visitor arrives at your property, they will press the call button on the intercom which will then connect to a phone number (up to 2 numbers can be added which will be rung in sequence) of your choosing. Once you answer the phone and speak to them you can then open the gate from your phone and let them in remotely from wherever you are in the world.

You can also open the gates by dialing the simcard number held within the unit and also by pressing a combination of your choice on the keypad.

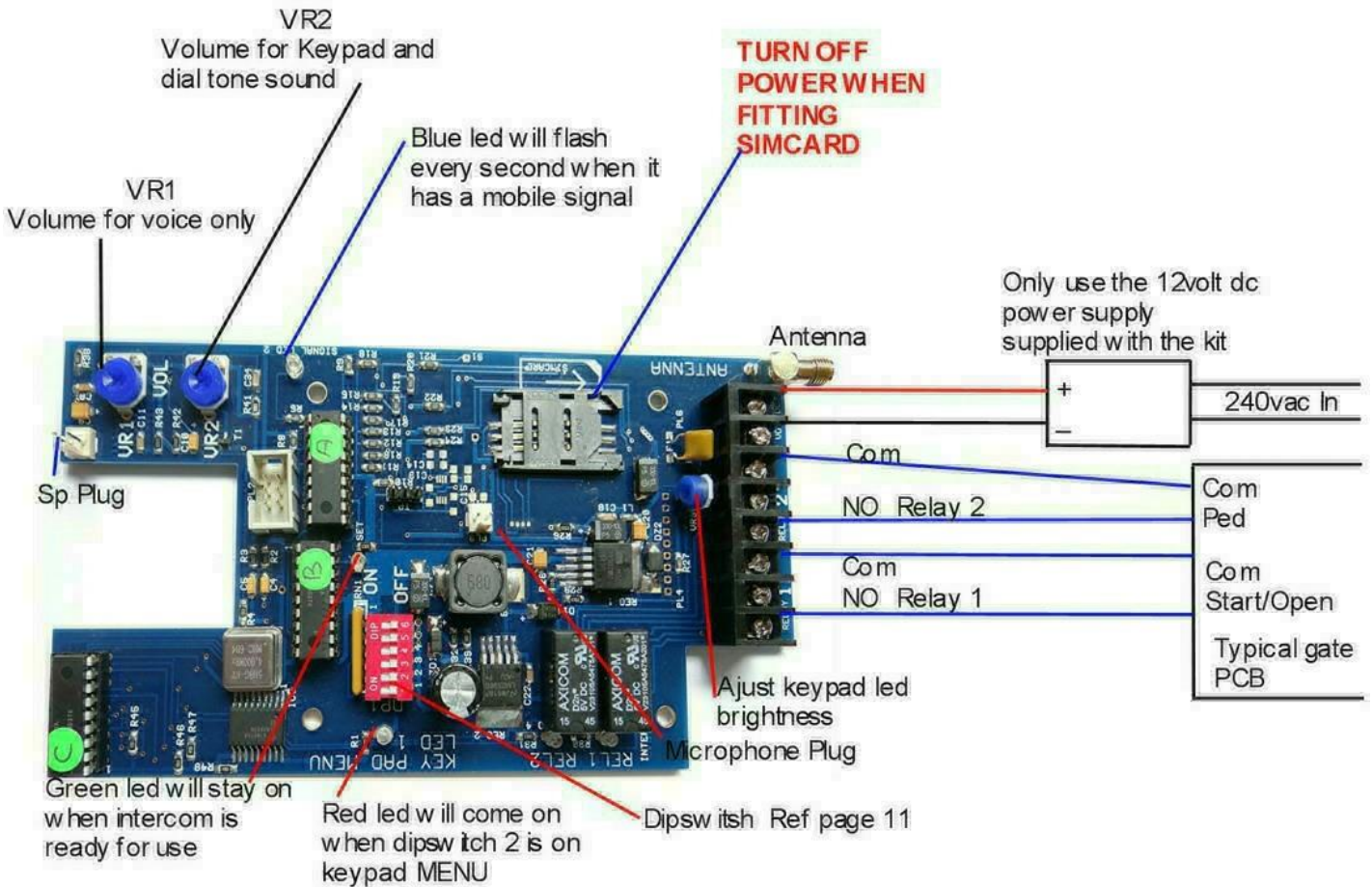
The advantages of this over other systems are that you do not have to leave the car to open your gates, avoiding weather or safety issues, you don't need to carry around a separate remote device or indeed replace it if it were to get lost!

No phone line is required as the unit will use the mobile phone network to place the calls.

Specification

- GSM Frequency: Quad band freq 850/900/1800/1900/2100 MHz
- Power Supply Voltage: 12 DC
- Current used in standby mode: 70 Milliamps.
- Max current: up to 2 amps.
- Stainless steel vandal proof Enclosure.
- Backlit keypad.
- Standard 2G or 3G simcard.
- No Landline Required.
- Dimensions - L260 x W120 x H45mm
- Brushed stainless steel is 2mm thick.
- Operating temperature: -10...+40°C
- Signal strength function.
- Stay Active simcard Function.
- 2 Call points (activated in sequence) per button.
- Digit keypad code access (50 separate 4 digit access codes)
- Phone list for dial to open access (30 users)
- Hold gate open feature.
- Pedestrian relay or door lock.
- Easy programming via SMS message (keypad programmed via keypad)
- Adjustable Relay Time.

Instructions



IMPORTANT - PLEASE READ

Please ensure that you disconnect the power when you fit the simcard and that you place the simcard with the clipped corner facing outwards. As shown in the picture above.

VR1 - Volume (Voice)

Adjusts the voice level on the intercom.

VR2 - Volume (Keypad)

Adjusts the level of sound for keypad and Dial tone.

Signal LED (blue)

The blue LED flashes once per second to indicate when a signal has been found.

Ready LED (green)

The green LED will come on when the unit is ready for operation.

Keypad LED (red)

When the red light is on it indicates you are in keypad mode for programming the keypad. (Dipswitch 2 on)

Dipswitch

To adjust dipswitch settings refer to Page 11

Installing your simcard

New SIM cards will need registering before they can be used. Full details of how this is done can normally be found in the SIM card pack. It will normally require that the SIM card is inserted into a mobile phone, a number dialed and instructions followed. While the SIM is in the mobile phone it would be a good time to disable call diverts, ring back and disable features such as **voicemail** and **text** alerts. Please be advised that if the intercom will be used on a regular basis, we would recommend a contract-based sim card as pay as you go call charges can be as high as 25p per call.

The GSM Gate Intercom has a built in "sim active function" which keeps track of the units activity. If there has been no usage for 6 weeks it will send out a text message to a preset recorded number to keep the simcard alive. This then eliminates the problems of sim's being shut down if they are unused for 3 months.

Please activate and put credit on your simcard then disable the voicemail using the following codes

Vodafone:	call 1210	Tesco	call 2915
T-Mobile:	call 222	O2	call 1760
Orange:	call 4502	Giff Gaff	call 1626

EE - send the text message command VM OFF to 150

Ensure the unit is powered down before inserting the simcard

- 1: Slide back the sim door and lift it up.
- 2: Slide the simcard in to the door making sure that the clipped corner of the simcard lines up with the clipped corner of the sim holder.
- 3: Close the SIM door.
- 4: Slide the SIM door to lock the simcard in place.
- 5: Connect 12 volts DC to the input connector as per figure 1.

*Important DC Only - Please use the power supply supplied with the unit

Once power has been applied (referring to figure 1) the **blue** network LED light will flash once every second. Once a signal has been found the **green** LED will come on and stay on.

To check the strength being received please send the text message

#SS

The unit will reply back with a score from 1 - 30. The unit must have a score of at least 10.

2G OR 3G

The intercom can work on both 2G and 3G networks, you can choose which network the unit will use via Dipswitch setting 1.

Dipswitch OFF -The unit will search for a 2G Network signal.
Dipswitch ON -The unit will search for a 3G Network signal.

We strongly recommend checking the signal strength on both 2G and 3G and using which has the highest signal strength score. The signal strength should be at least a score of 10 for reliability.

FOR USE WITH MOBILE NETWORK "THREE" YOU CAN ONLY USE 3G SETTING.

Programming Intercom Call Button Entry.

On the front panel there is 1 intercom call button. Pressing the relative call button will dial the primary and divert number relating to the button number. To programme these numbers you will need to send a text message code which will store the number you want to use in either the primary or divert position for each call button.

Example -

`#PRI=1#07713099514#` This stores the mobile phone number as primary number for call button.

`#DIV=1#07713099514#` This stores the mobile phone number as divert number for call button.

To delete a stored number use location followed by **star** (see table below)

`#PRI=1*` or `#DIV=1*`

Note - there is a maximum of 15 digits per phone number stored

Text Code	Action
<code>#PRI=1#NUMBER#</code>	Stores Primary Number for call button 1
<code>#DIV=1#NUMBER#</code>	Stores Divert Number for call button 1
<code>#PRI=1*</code>	Deletes Primary Number for call button 1
<code>#DIV=1*</code>	Deletes Divert Number for call button 1

If the code is accepted the unit will reply "**PRI number stored**" or "**DIV number stored**"

The Intercom can be reset by texting

`#RESET`

This will delete all primary and divert numbers plus your dial to open (whl) numbers.

NOTE - It will not affect keypad codes.

Using Intercom Call Button Entry

Once the numbers have been programmed for each button, the call buttons are ready to be used. Visitors will press a call button on the intercom. This will then call the stored primary phone number. If the call is not answered it will then try the divert number.

When you answer the call, you can talk to the visitor at your gate. When you are happy to let them in you can press the following keys on your phone keypad for different actions.

# (hash) Key	Activates relay 1 to open the pedestrian or door lock
* (star) Key	Activates relay 2 to open the gate.
Number 3	Locks on relay 1 to hold the gate open.
Number 0	Increases call time by one minute.

To release the gate from hold state, dial the simcard number or enter your 4-digit code on your intercom keypad. This will close the gate.

NOTE - You only have 60 seconds to talk to your visitor before the intercom automatically hangs up the call. To increase the time by a further minute please press the 0 button on your phone keypad.

Primary & Divert Numbers/Using Voicemail.

The intercom will call the primary number for 30 seconds. If it is not answered it will divert to the divert number and again ring for 30 seconds. If you are a voicemail user, the voicemail will answer the call in approximately 15 seconds stopping the call going to the divert number. There are 2 solutions for this scenario.

Extend the time voicemail will answer to above 30 seconds therefore allowing it to divert before voicemail answers by using the network specific codes below -

EE -	**61*0795322222**XX#
O2 -	**61*901*11*XX#
T-Mobile -	**61yourownmobilenumberwithnospaces**XX#
Tesco -	**61*905*11*XX#
Orange -	**61*07953100123**X
Giff Gaff -	**61*443*10XX#

Option 1

In all our examples, the Xxs stand for the number of seconds you'd like the phone to ring for before voicemail kicks in. So replace the Xxs with 30 to enable your phone to ring for half a minute before the call diverts. Most providers allow you to increase the time in 5 second intervals. There are limits as to how long you can make the ring last for. Most providers set a cap at 40 seconds.

Option 2

By turning dipswitch 5 to on, the intercom will switch the call to the divert number after approx 14 seconds. This will be before voicemail answers.

Programming Dial to Open Gate Entry (WHL List) (Caller ID)

You can open the gate direct from a mobile phone or landline by calling the simcard number. Once you call the number the GSM Intercom will reject the call and take the command to open the gate.

We have a caller ID function controlled by dipswitch 6. If this is set to **ON** only the numbers stored in the intercom will be accepted to open the gate. If set to **OFF** there is **NO** caller ID security and any caller can open the gate.

To program a number to the caller ID (whl) list you will need to send a text message code:

`#WHL#NUMBER#`

To delete the number send a text message code:

`#WHL*NUMBER#`

Please note the only difference is the **star** not **hash** after WHL.

Example `#WHL#07713099514#` to store you mobile number.

Example `#WHL*07713099514#` to delete mobile number.

If the code is accepted the unit will reply "**WHL number stored**"

If the code is accepted the unit will reply "**WHL number deleted**"

To reset all numbers you can text the code

`#RESET`

This will delete all primary and divert numbers plus your dial to open (whl) numbers.

NOTE - It will not affect keypad codes.

To open the gate permanently from your phone you can send a text

`#OPEN` - this will hold relay 1 on.

To close the gate just ring the simcard number this will reset relay 1 and the gate will close.

Relay Pulse Time

The default pulse time for each relay is 2 seconds. You can increase this to 10 seconds for each relay using dipswitches 3 and 4 - please see dipswitch settings on Page 11

Program Keypad Entry

You can open the gate via the keypad with a 4-digit keypad access code. (Up to 50 codes can be stored). The keypad is independent from the rest of the intercom. It does **NOT** need a signal or even a simcard to work.

To add your keypad numbers, simply enter keypad admin mode. This is done by switching dipswitch 2 to on - the **red** LED will come on to indicate you are in keypad admin mode.

You can now enter a 4 digit code and assign the code to either relay 1 or relay 2. This is done by either the **#** or ***** key after entering the 4-digit code.

Example you type - 1234**#** To assign relay one (could be full access to property)
 5412***** To assign relay two (could be pedestrian access to property)

If the code is accepted you will hear 4 beeps. If you make an incorrect entry you will hear a singular long beep and you will need to start again.

To delete a stored 4-digit code enter the 4 digits followed by the zero key to confirm. If the code is deleted successfully you will hear 6 beeps. If you make an incorrect entry you will hear a singular long beep and you will need to try again.

Example you type - 5412 and then 0 to delete the code 5412

NOTE - To delete all keypad codes type 0000 followed by the zero key (0) to confirm.

Once your numbers are stored you will need to turn dipswitch 2 back to the OFF position. Failing to do this will mean the keypad is unusable as it will still be in admin mode.

How to operate keypad

Type in the 4 digit code. It will operate the relay you have programmed as above.

Relay Pulse Time

The default pulse time for each relay is 2 seconds. You can increase this to 10 seconds for each relay via dipswitches 3 and 4. Please see dipswitch settings on Page 11.

Quick Programming

Intercom entry numbers (call button)

To add Primary #PRI=1#07713099514#

To delete Primary #PRI=1**

To add Divert #DIV=1#07713099514#

To delete Divert #DIV=1**

Full instructions are on page 6

Call ID (Dial to Open) (whl list)

To store white list number #WHL#07713099514#

To delete white list number #WHL*07713099514# Max 30 Numbers.

To hold relay 1 on send a text message command

#OPEN

Reset when finished by dialing the simcard number.

Full instructions are on page 7

Keypad Entry (dipswitch 2 on position)

To ADD a code, press your 4-digit code followed by # for relay one or * for relay two. To delete a stored code, press your 4 digit code followed by zero (0) key.

Example - 1234# assigns 1234 to relay 1

Example - 1234* assigns 1234 to relay 2

Example - 1234 then 0 deletes stored 1234 code.

Factory Reset & Signal Strength Check

#RESET - Delete all intercom button numbers and (WHL) white list numbers.

#SS - Signal strength test and text you the score.

Important Installer Notes

- When installing the aerial antenna cable please ensure that the cable leaves the back box by the shortest route possible and is not coiled up left inside the intercom.
- Do not stick the aerial to any metal surface. This will degrade the signal strength received.
- Only use 12volts DC power supply that is supplied in the kit.
- Please remove voicemail function from the simcard before installing into the intercom. Major UK network voicemail removal codes are shown on page 4.
- Prior to commissioning, please ensure the signal strength is sufficient by sending the text #SS. We recommend you need a score of at least 10. Please try both 2G and 3G via dipswitch 1.
- If you do not receive a good signal strength, please reposition the aerial antenna to improve the signal strength or alternatively change the network provider as the signal strength can vary between suppliers.
- There are two volume adjustment controls
VR1 - controls voice
VR2 - controls the dial tone and key tone (please see page 2).
- We do not recommend using three network simcards as the only work on 3G only. This means sometimes they struggle for a consistent signal as they can not fall back onto 2G like other networks.

Dipswitch Settings

1 ON	2G/3G	The intercom will search for a 3G signal at start up.
1 OFF	2G/3G	The intercom will search for a 2G signal at start up.
2 ON	KEYPAD ADMIN	When switched ON you can store or delete keypad access numbers. - IF ON RED LED WILL COME ON.
2 OFF	KEYPAD ADMIN	When switched OFF the intercom will act as normal.
3 OFF	Relay 1 Time Setting	Relay 1 will stay ON for 2 seconds.
3 ON	Relay 1 Time Setting	Relay 1 will stay on for 10 seconds.
4 OFF	Relay 2 Time Setting	Relay 2 will stay on for 2 seconds.
4 ON	Relay 2 Time Setting	Relay 2 will stay on for 10 seconds.
5 ON	ANSWER PHONE	The intercom will switch to divert after 15 seconds.
5 OFF	ANSWER PHONE	The intercom will switch to divert after 30 seconds.
6 ON	CALLER ID	ONLY pre-programmed numbers can 'dial to open'.
6 OFF	CALLER ID	ANY numbers can 'dial to open'.

Quick Commands

Send Text	Operation	Acknowledgment
#SS	Gives a Signal Strenth Test	Score of 1-30
#PRI=1#07713099514#	Stores mobile number as primary no	PRI number stored
#DIV=1#07713099514#	Stores mobile number as divert no	Number Stored
#PRI=1**	Deletes primary number	PRI number deleted
#DIV=1**	Deletes divert number	DIV number deleted
#RESET	Deletes all stored numbers	
#WHL#NUMBER#	Adds number to caller ID list	WHL number stored
#WHL*NUMBER#	Deletes number on caller ID list	WHL number deleted
#OPEN	Holds relay 1 ON	
1234#	Assigns code to relay 1	Hear 4 beeps
4567*	Assigns code to relay 2	Hear 4 beeps
12340	Deletes stored code 1234	Hear 6 beeps