GMT-4GSRF

4G Switch with RF for remote control

Operate gates, doors and more with your mobile phone.

GMT-4GSRF
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Product Information

The GMT-4GSRF GSM Switch with FR Key Fob incorporates a professional, industrial grade engine that receives calls at its SIM number, as any ordinary GSM mobile phone.

The system operates in the GSM module quad band 850/900/1800/1900/2100mhz frequencies.

To give an example, if your SIM has the number 07234567890, this is the number you must call to open the gate. The system has a memory where you will store the numbers of people enabled to open the gate (up to 120). When the Gate Opener receives a call, it will check the calling number is in the WHL list, *answer the call for 3 seconds*, then reject the call and open the gate if the number is recognized. *The unit answers the call which means any sim provider can be used as there are timing issues with these kind of switches and certain network providers*

The advantage of this over other systems is that you do not have to leave the car to open the gate avoiding weather conditions or safety issues.

Specification

- Simply dial the sim card number to open the gate.
- Phone list for added security with up to 120 stored numbers
- Text for signal strength
- Text for fast/slow relay pulse
- Text to keep/latch the gate open
- RF Key fob activation, button A to trigger - button B to latch
- 2G/4G sim card
- Antenna Supplied
- Keep Sim Active Function
- Dimensions - L 150 x W90 x H45mm
- Dimensions PCB Only - L 125 x W67mm
- Operating Temperature -10 to +40c
- Input 12/24 VDC
- Output Relay 2 Amp N/0 Volt Free
- Quad band Frequency 850/900/1800/1900/2100 MHz
- 2G or 4G either by DIP switch or modem (call us on 01225 767 129 if 4G is required)

IMPORTANT - PLEASE READ
PLEASE ENSURE THAT YOU DISCONNECT THE POWER WHEN YOU FIT THE SIM CARD

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

You can only send one number at a time. Please send the message and wait for the switch to send you a text acknowledgment 'stored' before you try to add another number via text entry.

Powering the GSM 4G Gate Opener

Connect the 12 volts DC to the input connector as per figure 1. Once the power has been applied the blue network LED will flash once every second. Once the signal has been found the green **ready** LED will come on and stay on indicating that the unit is now ready for use.

Password Change

Default password for the 4GSRF is 1234. To change this, send the following:
#1234*PW4321#
This will set the unit password to 4321.

Signal Strength

To help make sure that you place the unit in a suitable position you can text the unit to see how much signal strength the dialer is receiving. Text the command
#4321*SIGNAL#
The dialer will perform a test on the signal strength. You will receive a text telling you the signal strength score between1 up to 30. We strongly recommend that you place the unit where you can receive a signal strength score of at least 10 or higher. You will find that with a score of less than 10 the unit will be unreliable.

DIP SWITCH 1

Dip Switch 1 is for selecting between 2G or 4G, OFF = 2G / ON = 4G
Please call 01225 767 129 to enable this switch.

How to program the 4GSRF

Storing and Deleting Numbers

Once the unit has a green light it is ready to be used. To program a number to the caller ID (WHL) list you will need to send the following text message code:
#4321*WHL=NUMBER# e.g. #WHL=01225767129#

To delete the number, send the text message code #DEL=NUMBER#

If the code is accepted the unit will reply 'WHL number stored' or 'WHL number deleted'

Turning Caller ID ON or OFF (Open to All Numbers)

The unit can be restricted to just the WHL numbers or open to all. **OFF is default**
#4321*ID=ON# will only allow access to numbers stored on the unit.
#4321*ID=OFF# will turn caller ID off allowing access to any number that calls the unit.

Relay Speed

Relay Speed can be changed between Fast and Slow. **FAST is default**
#4321*SLOW# sets a relay timer of 5 seconds.
#4321*FAST# sets a relay timer of 1 second.

Clearing The WHL

If you want to clear the caller list that is stored on the unit, you can delete individual numbers as stated above or send #4321*CLEAR=WHL# for a complete WHL clear.

Keep SIM Alive

Just like the 2GSRF, the 4GSRF has a pre-configured SIM keep alive setup.
You can now change this option. **OFF is default** **TEXT*ONLY is default**

#4321*BOOTUP=07123456789# this will change the default number to a number you prefer to receive boot up and 6 weekly messages.

#4321*BOOTUP=ON# If the above number has been changed then you need to turn the service on.

#4321*BOOTUP=OFF# If you want to revert to default turn the service off.

#4321*TEXT&CALL# Some service providers require an outgoing call to be made, so we have included this as an option.

#4321*TEXT*ONLY# If an outgoing call is not required then the unit can set to text only.

Reset Function

For quick reset and to clear ALL numbers there is a built-in reset function that is triggered via sending a text message

#4321*RESET# Well reset the unit back to factory

The unit will then remove ALL WHL numbers stored, Relay will be set to FAST, BOOTUP will be set to OFF.

What to do if the Password is Lost

DIP Switch 2 can be used locally as a hard reset incase the password has been lost. This will reset the password and everything back to default **BUT WILL NOT** affect the WHL, all user numbers will remain stored.

Turn the power off to the unit, turn DIP Switch 2 ON and apply power, wait the GREEN ready light, and then turn DIP Switch 2 OFF, the unit's password is now defaulted to 1234.

If the above is not an option, please contact GM Techtronics Ltd 01225 767 129 where we can assist you further.

Using the 4GSRF

Using your mobile phone or land line call the SIM card number. You will hear a couple ring tones. The unit will automatically hang up. The relay will then pulse for a period - this is where it is sending a signal to your gate control board to open the gate.

If the ID option is ON and a number not stored tries calling, they will hear 2 rings the unit will cut the call off, but nothing will happen with the relay.

Text the 4GSRF

#4321*OPEN# To latch the relay on.

#4321*CLOSE# To release the relay, this can also be done via a phone call or by Pressing A on the remote fob included.

Remote Fob

The unit comes with 1 pre-programmed remote fob included.

Button 'A' is used to trigger the relay.

Button 'B' is used to latch the relay. A latched relay can be released by button 'A' on the remote fob, or by calling the switch.

Quick Programming

#1234*PW4321# - PASSWORD CHANGE
#4321*ID=ON/OFF# - OPEN OR CLOSE ACCESS TO INCOMING CALLS
#4321*WHL=07123456789# - TO STORE NUMBERS *ONE AT A TIME*
#4321*DEL=07123456789# - TO DELETE STORED NUMBERS *ONE AT A TIME*
#4321*FAST/SLOW# - RELAY TIMER FAST OR SLOW
#SIGNAL# - REPLY SIGNAL CHECK FROM 0-30
#RESET# - FACTORY DEFAULT
#4321*BOOTUP=07123456789# - STORES THE 'KEEP ALIVE' NOTIFICATION NUMBER
#4321*BOOTUP=ON/OFF# - TURNS THE BOOTUP TEXT AND 6 WEEK KEEP ALIVE ON OR OFF
#4321*TEXT&CALL# - WILL SEND AN TEXT AND PLACE AN OUTGOING CALL ON BOOTUP AND EVERY 6 WEEKS
#4321*TEXT*ONLY# - WILL SEND ONLY A TEXT ON BOOTUP AND EVERY 6 WEEKS