G.S.M ACTIVATE

GSM 2G/4G SMART

SWITCH MINI

eCO RANGE

Product Information

Our 2G/4G GSM Smart Switch is designed to attach to your electronic devices enabling you to activate them using your mobile phone from anywhere in the world.

This can prove to be very useful in a variety of situations. Just simply dial the unit which comes with a free simcard and it will turn the device on or off. Alternatively, you can text it how long you would like the device on for ranging from 1 - 999 seconds or minutes. Once you have sent a command, the device will send an acknowledgement back by text message so you know it has taken your command.

Our GSM 2G/4G Smart Switch is set apart from other models on the market by being on the quadband frequency, this means it can be used worldwide and we frequently ship models all over Europe and worldwide, with excellent feedback.

The unit is also enclosed in a IP65 rated box which means it is perfectly weathered for outside installation and has also passed testing in high temperatures and below freezing conditions.

Specification

- The GSM Switch has been designed to operate electric equipment by using your mobile phone or land line as the controller.
- It is very easy to install and operates with no complicated coding required, just plug in and go.
- GSM Frequency: Quad band freq 850/900/1800/1900MHz
- LTE Band : B1/B3/B5/B7/B8/B20
- Standard 2G or 4G simcard
- Simply dial or text the simcard number to operate the relay.
- You will receive a text acknowledgement to say relay on or off.
- INPUT - 12vdc
- 3 AMP N/O Volt free Relay
- Phone list for added security of up to 120 stored numbers.
- You can set the timer for 1 - 999 minutes
- Pulse Function for the relay.
- Sim Active Function.
- Dimensions - L100 X W68 X H50 mm
- Operating Temperature: -20...+60°C
- Relay State Report for relay.

SIM Active Function

Our GSM Auto Dialler comes with a SIM Active function meaning that it will send a message every six weeks to a preprogrammed number we at GSM Activate own to prevent the SIM card being shut down due to inactivity.

Antenna

Relay Output Max 3amp

AXICOM

12/24 Vdc

-

+

Pairing the key fob button

Dipswitch 1 off = 2G
Dipswitch 1 on = 4G

Dipswitch 2 off = Latch Relay
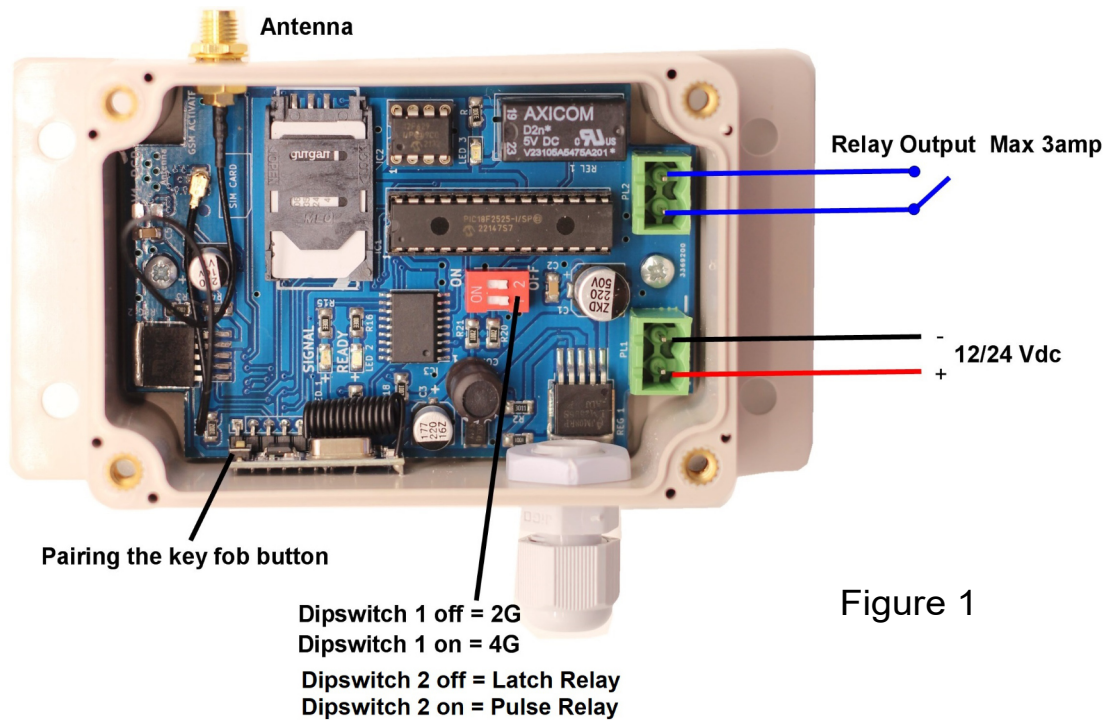**Dipswitch 2 on = Pulse Relay**

Figure 1

IMPORTANT- PLEASE READ

Please ensure that you disconnect the power when you fit the simcard Then slide the simcard into the holder ensuring the clipped corner of the simcard lines up with the clipped corner of the simcard holder as seen in the image above.

Powering GSM Switch

Connect 12 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 LED will come on and stay on indicating the unit is now ready for use.

Signal Strength

To check the strength of the signal received please send a text message

#SIGNAL#

The unit will reply back with a score from 1 - 30. The unit must have a score of at least 10 to work effectively. Anything less than a score of 10 will make the unit unreliable.

IMPORTANT - PLEASE READ
We strongly recommend checking the signal strength. The signal strength should at least have a score of 10 for reliability.

2G or 4G

The GSM Smart Switch 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 GSM Smart Switch Mini

Once the unit has a GREEN light, it is ready to be used. You can programme the unit so that either only recognised numbers can access and use the GSM Smart Switch or so that anyone can text the unit. Please text the unit

#ID=ON   - This will allow only recognised numbres to control the unit
#ID=OFF   - This will not allow unrecognised numbers control the unit

IMPORTANT - PLEASE READ - If you do not require authorised users, please skip to the next page.

How to use the GSM Smart Switch Mini

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

#WHL#NUMBER#

To delete the number send the text message code:

#DEL#NUMBER#

Example   #WHL#07123456789#   Stores your mobile number (maximum 60 users)

              #DEL#07123456789#   Deletes the stored mobile number

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

<div align="center">

IMPORTANT - PLEASE READ

You can only send one text message at a time. Please wait for the unit to respond with the text acknowledgement "WHL number stored" before you try to add another number to the system.

Furthermore, please ensure that you have credit on the simcard to receive the text acknowledgements. It may take some time to receive the text acknowledgement depending upon how busy the network is at the time.

</div>

Reset Function

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

#RESET#

The unit will remove all WHL numbers stored.

NOTE - Please only use this function if completely necessary as it will wipe ALL of your

How to use the Eco Smart Switch Mini

Operate Relay by Call

1, Using your mobile phone dial the simcard number within the unit. You will hear 1 ring tone. The unit will automatically hang up therefore, avoiding any call charges.
2, The relay will then turn ON and remain on. You will receive a status report reading "RELAY ON + SIGNAL".
3, To turn the relay OFF just ring the simcard number again. You will receive the status report "RELAY OFF + SIGNAL".

You can turn the status replies on or off to save credit by sending the text message

#TEXT=ON#   Turns ON the relay state report
#TEXT=OFF#   Turns OFF the relay state report

The default setting is for the relay state report is ON

Pulse Relay by Call

If you set DipSwitch 2 to on, the unit will now pulse the relay for 20 seconds instead of latching on. The unit will reply Relay Pulsed once the pulse period has ended

Operate Relay by Text

By texting the unit you can turn ON / OFF the relay. Below are examples on how to do this.

#RELAY=ON#   This will turn ON relay
#RELAY=OFF#   This will turn OFF relay

It is possible to pulse the relay for a period of 10 seconds. You will need to send the text command as follows

#PULSE=REL#   This will turn ON the relay for 10 seconds ONLY

Timer Mode - Relay Timer

It is possible to turn the relay ON for a period of time reanging from 1 minute to a maximum of 999 minutes. You will need to send the text message as follows.

#MIN=   Followed by the number of minutes you require followed by #
#MIN=060#   Turns the relay on for 60 minutes
#MIN=120#   Turns the relay on for 120 minutes

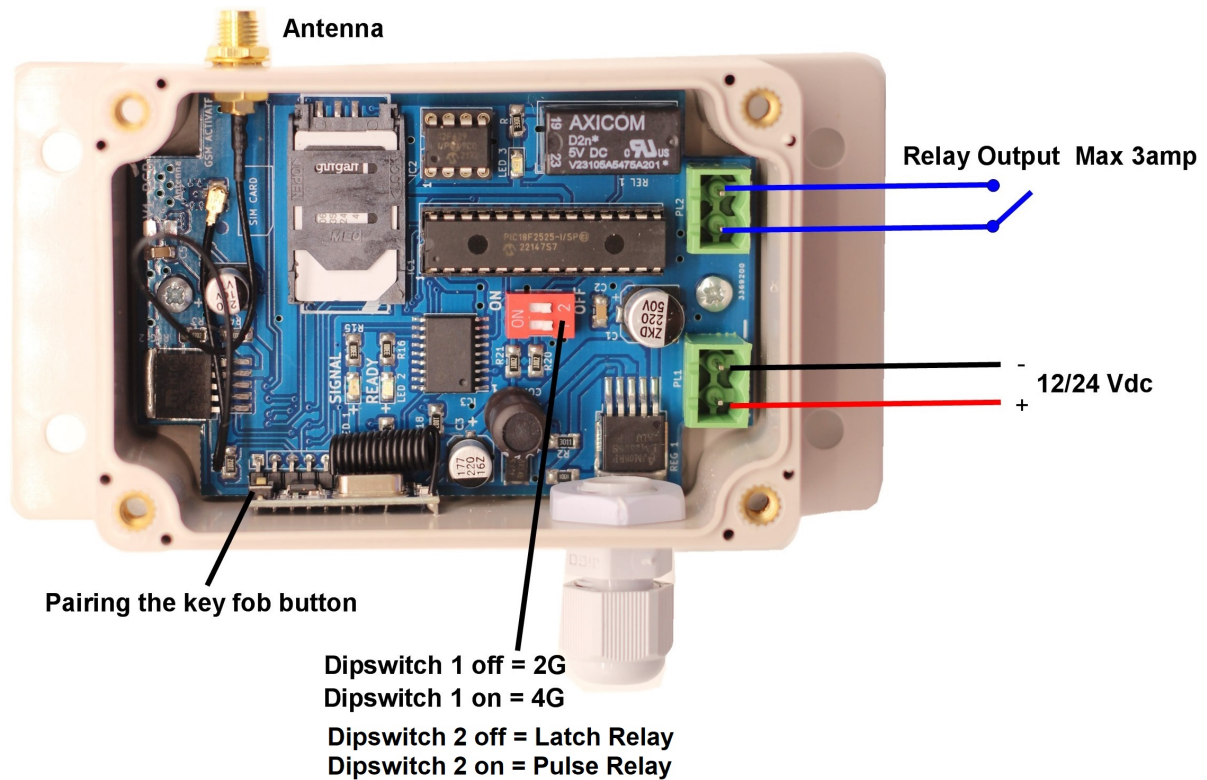The maximum amount of minutes is 999

You will receive the text acknowledgement "TIMER SET".

The timer will stay on for the preset amount of time and then turn itself off. If you wish to cancel the preset time prior to it ending you can send the text

#MIN=000

This cancels the previous set timer.

Pairing the Keyfob

Antenna

Relay Output Max 3amp

12/24 Vdc
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+

Pairing the key fob button

Dipswitch 1 off = 2G
Dipswitch 1 on = 4G

Dipswitch 2 off = Latch Relay
Dipswitch 2 on = Pulse Relay

To pair the key fob to the GSM Smart Switch you will need to go through a process so that the key fobs are matched to the RF receiver on the GSM Switch

1. Switch <u>ON </u>the GSM Switch

2. Hold down the pairing button on the RF module for 3 seconds (refere to figure 1)

3. The red LED will illuminate

4. Press the A button on the key fob

5. The RF modules red LED will flash when the pairing is complete.

Operate Relay by Keyfob

You can also operate the unit by using a keyfob. By pressing A on the keyfob, it will replicate what a phone call does ie it will latch the relay on. By pressing B will turn the relay off.

The unit will not reply to a key fob activation

Relay Memory

In the event of a power loss the switch can remember the relay positions for when power has been restored. Please send the text command

#MEMORY=ON#   The unit will remember relay status in the event of power failure
#MEMORY=OFF#   The unit will NOT remember relay status of the relay.

The default setting is Relay Memory OFF

Relay State Report

It is possible to obtain a relay state report at any time. This will give you the position of the relay as well as a signal report. To do this you will need to send a text.

#STATUS#

IMPORTANT - PLEASE READ:

The unit has a "sim active" function which monitors the activity on the simcard. If it has been inactive for 6 weeks, it will send an automatic text to a pre-recorded number. This will then eliminate the problem of your sim getting shut down if they are unused for 3 months.

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 dialled and instructions followed. While the SIM is in the mobile phone it would be a good time to disable any PIN codes, call diverts, ring back and disable features such as voicemail and text alerts. Details of how to do this can be found on the SIM card provider's web site or by calling their customer services. Please use one of the following SIM card providers - Vodafone, TMobile, O2 or Orange.

SEND TEXT	OPERATION	ACKNOWLEDGMEN
#RELAY=ON#	Turns ON the relay	RELAY ON
#RELAY=OFF#	Turns OFF the relay	RELAY OFF
#TEXT=ON#	Turns text reports ON	TEXT ON
#TEXT=OFF#	Turns text reports OFF	TEXT OFF
#SIGNAL#	Gives signal strength report	Signal strength 1-30
#STATUS#	Gives relay status report & signal strength	RELAY ON/OFF
#MIN=000#	Switches unit on for X minutes	Relay on for X minutes
#PULSE=REL#	Pulses the Relay	
#MEMORY=ON#	Will remember relay status in event of power cut	MEMORY ON
#MEMORY=OFF#	Will not remember relay status	MEMORY OFF
#WHL=NUMBER#	Stores contact number	Number Stored
#DEL=NUMBER#	Deletes stored contact number	Number Deleted
#RESET#	Resets to factory settings	
#ID=ON	Only recognised numbers can use unit	ID ON
#ID=OFF	Any number can operate the unit	ID OFF