GSM WIRELESS 3G AUTO DIALLER / ALARM

Wired GSM Dialler and Standalone Wireless Alarm System

MODEL NUMBER 3GAD1

GSMADV2 & GSMADV2-WIR

Product Information

Our GSM 3G Auto Dialler is a versatile unit which can be attached to many of your electronic devices in your homes; work, gardens or wherever you may need it. It will alert you using GSM technology by sending you a text message or phone call to your mobile phone or land line. Therefore alerting you immediately to a problem, failure or status change wherever you are in the world!

Our GSMADV2-WIR version has wireless capabilities to make it a standalone alarm using various wireless sensors.

Our GSM 3G Auto-Dialler is set apart from other models on the market by being on the quad band frequency meaning it an be used worldwide and we frequently ship models all over Europe, USA and Australia with excellent feedback.

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

Specification

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- Text to test signal strength

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WIRELESS FUNCTIONS FOR MODEL GSMADV2 -WIR ONLY - REFER TO PAGE 8

- Wireless Alarm Function

- Activate Alarm via text message

- RF 433mhz transmission / receiver Code EV1527

- Range 10 metres line of sight

Page 2

GSM Frequency: Quad band fre 850/900/1800/1900/2100 Mhz.

Power Supply Voltage: 9 - 24 volts DC - 1 Amp Max

Current used in standby mode: 60mA Max

IP 65 Enclosure rating for outside installation

2 Inputs

10 Amp Relay Output

Micro 2G or 3G Simcard

No land line required

Dimensions - L150 x W90 x H45mm

Dimensions PCB Only - L125 x W67mm

Sim Active Function

Operating Temperature: -10...+40°C

Programmed by Text / SMS Message

INSTRUCTIONS

RF Module refer page 8

Dipswitch 1 On set for 3g
1 Off set for 2g
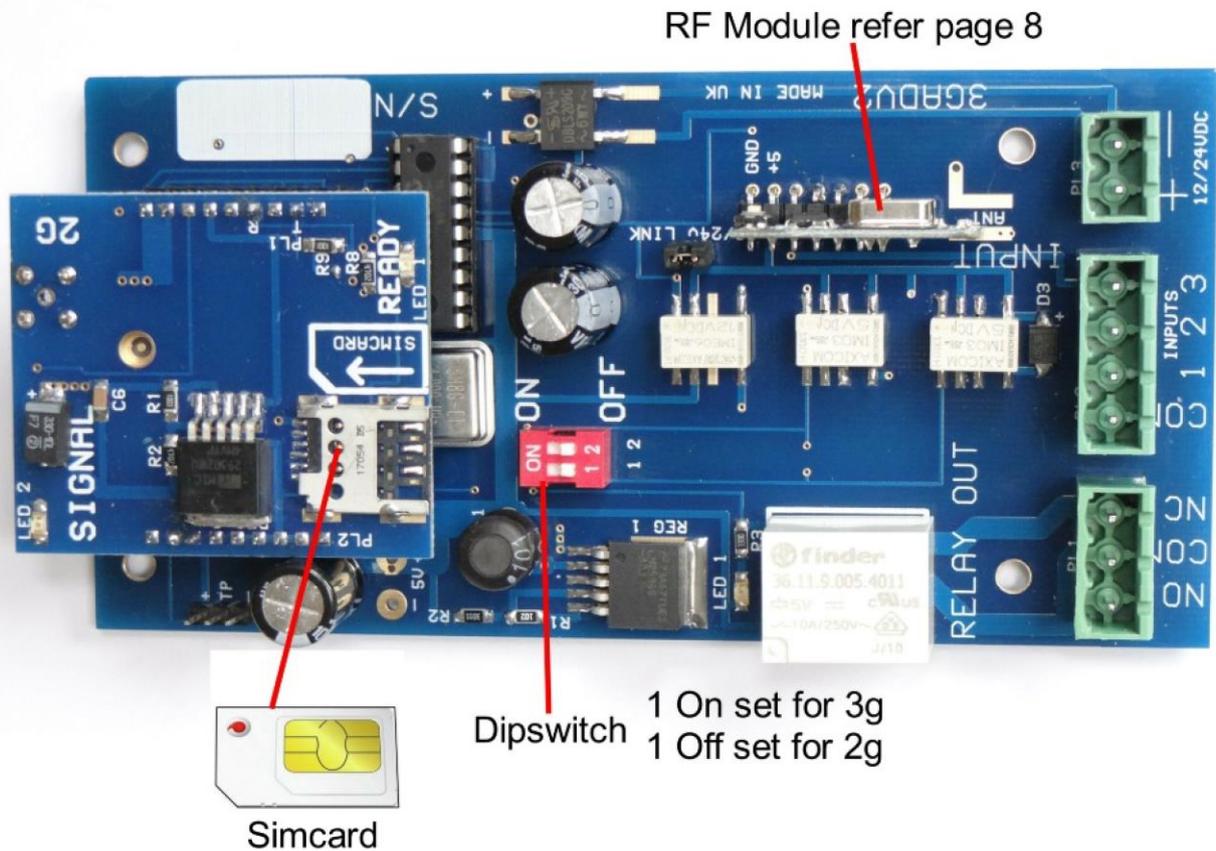
Simcard

Slide the simcard into the holder making sure that the clipped corner of the simcard lines up with the clipped corner of the simcard holder as picture above.

IMPORTANT - PLEASE READ
PLEASE MAKE SURE YOU DISCONNECT THE POWER WHEN YOU FIT THE SIM CARD THEN PLACE THE SIM CARD WITH THE CLIPPED CORNER FACING IN WARDS. PLEASE SEE PICTURE ABOVE.

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 dialler is receiving by texting the command **#SIGNAL#**

The dialler will perform a test on the signal strength.

You will receive a text telling you a signal strength score between 0 up to 30 we strongly recommend that you place the unit where you can receive asignal strength score of at least 10. You will find that with a score of less than 10 the unit will be unreliable.

How to programme contact numbers

After inserting your simcard into the Auto-Dialer turn the unit on and wait until you see the **GREEN READY** LED is on. This will indicate that you have a mobile signal and the unit is ready for use.

You will now need to send a text with the contact number **(maximum 3 contact numbers)**

Note - To avoid confusion we have colour coded the hash (#) and the equals (=) symbols.

Ex a mp le : (h a s h) (1 o r 2 o r 3) (e q u a ls) (p h o n e n u mb e r) (h a s h)

#1=07123456789#   then send this as a text to the simcard number of your unit

#2=07123562349#   then send this as a text to the simcard number of your unit

#3=07123871234#   then send this as a text to the simcard number of your unit

If you wish to cancel a number follow this example

Ex a mp le : (h a s h) (1 o r 2 o r 3) (e q u a ls) (DELETE) (h a s h)

#1=DELETE#   Then send this as a text to the simcard number of your unit

NOTE:

Please send one message at a time and wait for the Auto Dialler to send you back the text Acknowledgement 'NUMBER STORED' before you try to add another number.

Below is a notepad to help you remember the numbers that you have saved to your unit in the event you need to modify or delete in the future.

#1=_ #

#2= _ #

#3=_ #

How to program the SMS text message

You can now change the alarm message for inputs 1 & 2 to your own choosing.

To change the message send the text command as follows.

#MESS1= **YOUR MESSAGE#**   The default message is (**input 1**)

#MESS2= **YOUR MESSAGE#**   The default message is (**input 2**)

This will change the message to **"YOUR MESSAGE"**

Note:
You can only use a maximum of 19 characters including spaces for your customised message.

Telephone call alerts

The auto dialler can be programmed to send you a telephone call after each text alarm has been sent.
You will receive approximately three ring tones. The unit will then hang up automatically. This is to prevent call charges being incurred.

To set call alerts to <u>ON</u> please send the text message

#CALL=ON#

The unit will reply back "call on"

To disarm call alerts please send the text message.

#CALL=OFF#

If the call function has been set to <u>ON</u> you will receive a text message and shortly after a phone call.

How to Use the 3G GSM Auto Dialler

The 3G Auto Dialler has two independent input's

Input 1 = Terminal 1 connection.   (Negatively triggered) pulled to ground

Input 2 = Terminal 2 connection.   (Negatively triggered) pulled to ground

When the inputs are triggered the **GREEN READY LED** will flash 6 times to indicate that a trigger has been received and it will send a text / call message to the saved user numbers.

Both Input 1, and Input 2, can be triggered independently.

Note: Input 2 only (Terminal 3).

Can be triggered with a positive supply 12v/24v refer to page 9

How to Use the Relay Output

The 3G Auto Dialler has a relay output which can be used to switch on external electric devices such as lighting, sirens etc.

Relay 1 is independent and can be activated by sms (text) message.

By texting the unit you can turn relay 1 ON or OFF individually. Below are examples on how to do this.

#REL=ON#   -   This will turn on relay output

#REL=OFF# -   This will turn off relay output

After each operation the unit will reply with a status report **REL ON/OFF**

Alarm Relay Mode

The relay can also be setup to pulse for between 20 to 30 seconds when the inputs have been triggered. To activate this mode you need to set **dipswitch 2** to the **ON** position. Ref page 3

If the dipswitch is set to the OFF position, the relay will only come on via the SMS text commands.

Please note that if you use relay alarm mode to ON and are also using the relay independently it could become conflicted. Ideally you should use one or the other.

Quick Reference

Send Text	Operation	Acknowledgmemt		
#REL=OFF#	Turn Relay Output Off	Relay Off		
#REL=ON#	Turn Relay Output On	Relay On		
#MESS1=MAX19CHARACTER#	Stores a custom message for input 1	Message 1 Stored		
#MESS2=MAX19CHARACTER#	Stores a custom message for input 2	Message 2 Stored		
#SIGNAL#	Gives a Signal Strenth Test	Score of 1-30		
#1=NUMBER#	Saves Contact Number 1	Number Stored		
#2=NUMBER#	Saves Contact Number 2	Number Stored		
#3=NUMBER#	Saves Contact Number 3	Number Stored		
#1=DELETE#	Deletes Contact Number 1	Number Deleted		
#2=DELETE#	Deletes Contact Number 2	Number Deleted		
#3=DELETE#	Deletes Contact Number 3	Number Deleted		
#ALARM=ON#	Sets Alarm to On	Alarm On		
#ALARM=OFF#	Sets Alarm to Off	Alarm Off	Default	
#CALL=ON#	Switches Text & Call Alerts on	Call on		
#CALL=OFF#	Text Alerts Only	Call off	Default	

Dipswitch settings

Dipswitch 1 =   ON = 3G Selected
                 OFF = 2G Selected
Dipswitch 2 =   Alarm Relay Mode ON
                 Alarm Relay Mode OFF

Typical Application of Product

- Security alarm system applications

- Supervision and monitoring alarm systems

- Automatic monitoring system

- Vending machines security protection

- Pumping stations; tanks, oil or water levels

- Buildings and real estate

- Weather stations

- River monitoring and flood control

- Fridges/Fish Tanks

- Farming equipment and security

Wireless Functions - Model GSMADV2-WIR Only

Model GSMADV2-WIR has an RF module which allows connection to various wireless sensors, that will then trigger the dialler in the same way as wiring into input 1 and input 2.

Pairing Wireless Sensors

To connect wireless sensors you will need to go through a process so that the devices are matched to the receiver on the dialler. Typical Process (can vary dependent on sensor)

1. Switch on the Auto Dialler.

2. Switch on the PIR Sensor and allow it to warm up for 15 seconds.

3. Hold down the pairing button on the RF Module for 3 seconds (refer to figure 1).

4. Trigger the pir sensor.

5. The RF module has a red LED which will flash when pairing is Complete.

Door switch

6: Hold down the pairing button on the RF Module for 3 seconds (refer to figure 1).

7. Trigger the door switch.

8. The RF module has a RED LED which will flash when pairing is Complete.
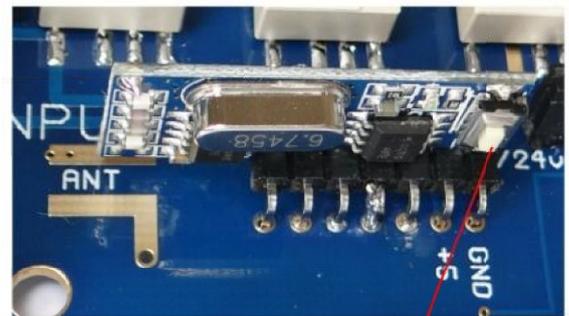
Figure 1   Pairing button

How to program the alarm

Once the sensors are paired, you can now send a text command to activate the alarm.

#ALARM=ON#   This will activate the alarm.
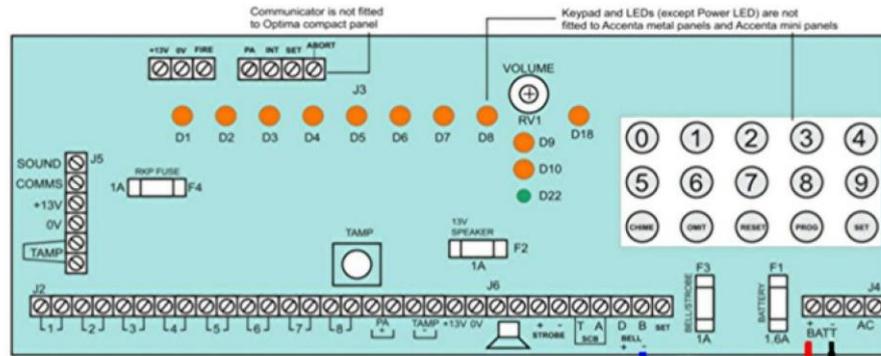
#ALARM=OFF# This will deactivate the alarm.

When sensors/door detect movement You will receive a text message (**ALARM TRIGGERED)**

Note :The alarm will need to be re activated again once it has been triggered, the alarm message cannot be changed from ALARM TRIGGERED.
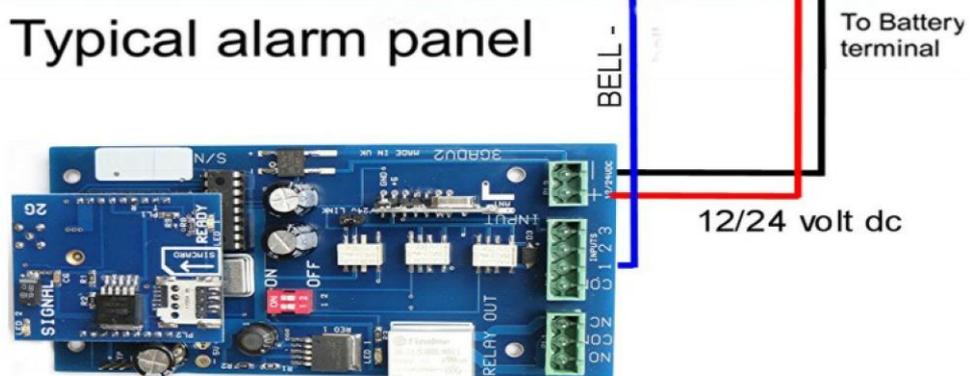
Please Note: Ensure you have already setup your contact numbers as per instructions on page 4

Typical alarm panel
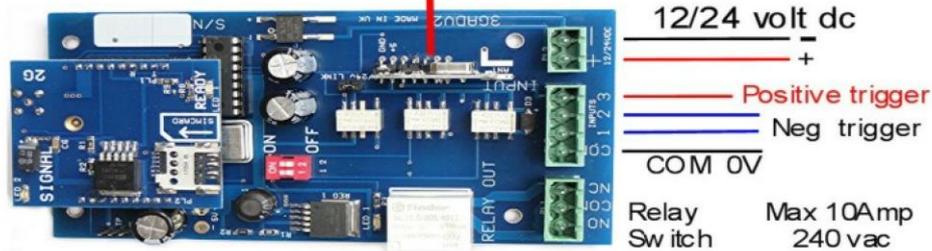
RF 433Mhz EV1527

12/24 volt dc

Positive trigger
Neg trigger
COM 0V

Relay   Max 10Amp
Switch   240 vac

INPUT 1+2

As you can see in the circuit diagram above the inputs can be activated by pulling the input 1 & 2 to ground. Alternatively input 2 only can be positively triggered by using terminal 3.

Relay Output

The relay has Common, Normally Open and Normally Closed contacts which are capable of 10 Amp loads. This is suitable for turning ON or OFF electrical equipment. Alternatively it can be used for resetting your alarm system.

The relay can be manually activated by text message commands or it can be set to pulse for 30 seconds when an input has been activated - refer to page 6

For more technical support please browse the FAQ's on our website **www.gsm-activate.co.uk**
Alternatively email our technical support team at **technical@gsm-activate.co.uk** and we will do our best to reply within 24 hours Monday - Friday.

14/03/2018 - AD