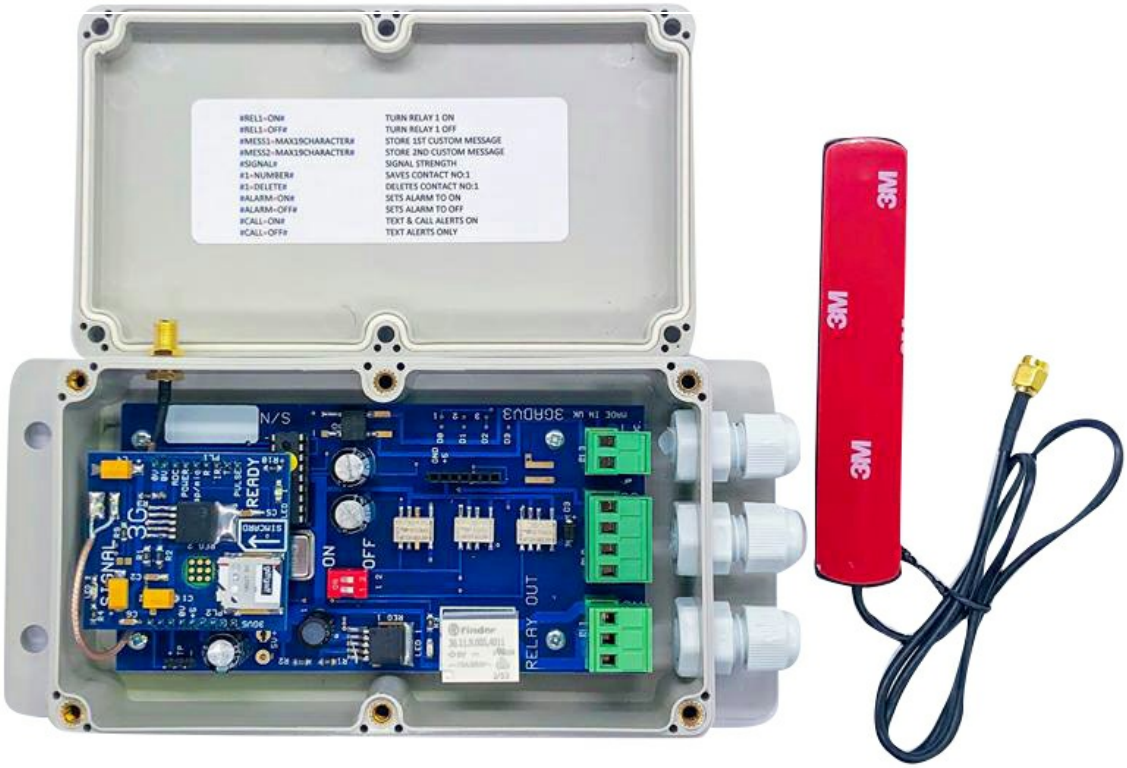
G.S.M ACTIVATE

GSM AUTO DIALLER MODEL AD-SD

WIRELESS ALARM SYSTEM MODEL AD-SD-W

www.gsm-activate.co.uk



Model AD-SD & Model AD-SD-W

Product Information

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

Our AD-SD-W (wireless) version has wireless capabilities making it a standalone alarm using various wireless sensors.

These Auto Diallers are set apart from other models on the market by being on the quad band frequency meaning they can be used worldwide and we frequently ship models all over Europe, USA and Australia with excellent feedback.

The unit is also enclosed in an IP65 rated enclosure ensuring it is perfectly weathered for outside installation and has passed testing in high heats and below freezing conditions.

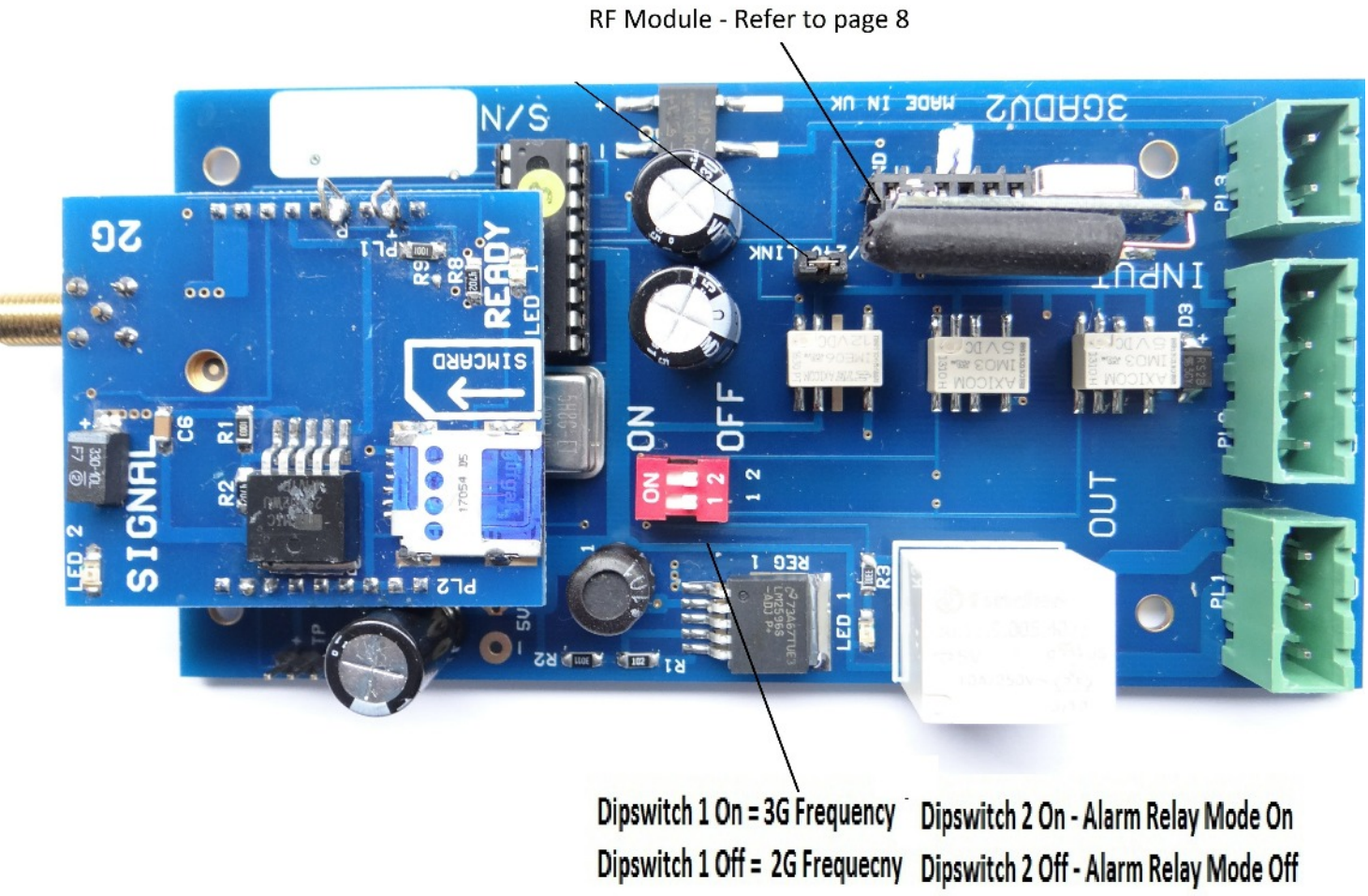
Specification

- GSM Frequency: Quadband Freq 850/900/1800/1900 - 3G model 2100mhz
- Power Supply Voltage: 9 - 24 volts DC - 1 Amp Max
- Current used in standby mode: 60mA Max
- IP65 Rated Enclosure for outside installation
- 2 Inputs - Negative triggered
- 1 Input - Positive triggered
- 8 Amp Relay Output
- Micro Simcard
- No landline needed
- 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
- Text to test signal strength
- 2G or 3G Model available

Wireless Function Model AD-SD-W (refer to page 8)

- Wireless Alarm Function
- Activate Alarm by text message
- RF 433mhz Transmission/Receiver … code EV1527
- Range 10 meters line of sight

Instructions



Slide the simcard into the holder ensuring that the clipped corner of the simcard lines up with the clippd corner of the simcard holder (Illustrated above).

IMPORTANT - PLEASE READ

PLAESE ENSURE THAT YOU DISCONNECT THE POWER WHEN YOU FIT THE SIM CARD THE PLACE THE SIMCARD WITH THE CLIPPED CORNER FACING INWARDS. PLEASE SEE PICTURE ABOVE

Connect 9 through to 24 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 help make sure that you place the unit in a suitable position you can text the unit to see how much signal strength the Auto Dialler is receiving. Please text the command

#SIGNAL#

The Auto Dialler will perform a test on the signal strength and report with a score of between 0 to 30. We strongly recommend that you place the unit where you will a signal score of at least 10. You will find anything less that this will make the unit unreliable.

Dipswitch 1 - 2G or 3G

With dipswitch 1 set to on, the unit will boot up in 3G, with it set to off it will boot up in 2G. To change the frequncy it looks for you will need to reset power when you change dipswitch 1 for it to take effect.

How to Programme Contact Numbers

After inserting your simcard into your Auto Dialler, turn the unit on and wait to see the GREEN READY LED light come 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.

NOTE - To avoid confusion we have colour coded the HASH (#) and the EQUALS (=) symbols. The number should be your number or one you wish to be able to enable the device. (Maximum of 3 contact numbers)

Example: (hash) (1,2 or 3) (equals) (phone number) (hash)

#1=07123456789# To save for contact no:1

#2=07234567891# To save for contact no:2

#3=07345678912# To save for contact no:3

If you wish to cancel a number, please follow this example

Example: (hash) (1,2 or 3) (equals) (DELETE) (hash)

#1=DELETE# Then send this to the simcard within the unit.

PLEASE NOTE

Please send one message at a time and wait for the Auto Dialler to send back the text acknowledgement 'NUMBER STORED' before you attempt to send the next 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 Programme the SMS

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.

NOTE - Your message should read a message of your choosing up to 19 characters long.

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'

Telephone Call Alerts

The Auto Dialler can be programmed to send you a call after each text alarm has been sent.

You will receive approximately three ring tones. The unit will then hang up automatically avoiding any call charges being incurred.

To set call alerts to ON please send the text message

#CALL=ON#

The unit will reply back 'CALL ON'

To disarm the call alerts please send the text message.

#CALL=OFF#

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

How to Use the GSM Auto Dialler

The Auto Dialler has two inputs.

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 six times to indicate that a trigger has been received and it will send a text and/or call to the saved user numbers.

Both Input 1 and input 2 can be triggered independently.

The Auto Dialler will reset automatically when the triggered input is released.

NOTE: (Terminal 3) Input 2 Only

This can be triggered with a positive supply 12v/24v (refer to page 9)

How to Use the Relay Output

Dipswitch 2 = OFF (refer to page 3)

The Auto Dialler has an 8 amp volt free contact relay output that can be used to switch on external electronic devices such as lighting, sirens etc.

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

#REL=ON# This will turn the relay output ON

#REL=OFF# This will turn the relay output OFF

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

It is possible to pulse the ouput relay for a period of 20 seconds. You will to send the text as follows

#REL=PULSE# This will pulse the relay for 20 seconds.

Dipswitch 2=ON (refer to page 3)

The relay can also be setup to pulse for 20 seconds when inputs have been triggered. To activte this mode you need to set **DIPSWITCH 2** to the on position. (Refer to page 3).

This can be used to reset auxiliary equipment.

When the relay has been activated, the red relay led will light to indicated the relay is in operation.

Quick Reference

Send Text	Operation	Acknowledgmemt
#REL=OFF#	Turn Relay Output Off	Relay Off
#REL=ON#	Turn Relay Output On	Relay On
#REL=PULSE#	Pulse Relay for 20 Seconds	Pulse Relay
#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)

Wireless Model please refer to page 8

Reset

To reset the unit back to factory settings you will need to send a text message

#RESET#

WARNING This will reset all of your parameters. Only send a reset command when necessary.

The GREEN READY LED will flash 8 times.

Typical Application of this Product

- Pumping stations; tanks, oil or water levels
- Security alarm system applications
- Supervision and monitoring alarm systems
- Automatic monitoring system
- Vending machines security protection
- Buildings and real estate
- Weather Stations
- River monitoring and flood control
- Fridges/Fish Tanks
- Farming equipment and security

Dipswitch settings

Dipswitch 1 = ON = 3G Selected
OFF = 2G Selected

Dipswitch 2 = ON= Relay Mode on
OFF= Relay Mode off

Note - Dipswitch 1 not used on 2G only Model

Wireless Functions - Model AD-SD-W (wireless)

Model AD-SD-W WIRELESS has an RF module which allows connection to various wireless sensors that will then trigger the dialler in the same way as hard wiring into input 1 and input 2.

Pairing Wireless Sensors or Door Switch

To connect wireless sensors you will need to match the devices to the receiver on the dialler. Typical process below however it can vary depending on the sensor.

1. Switch on the Auto Dialler.
2. Switch on the 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 sensor
5. The RF module has a RED LED which will flash when pairing is complete.

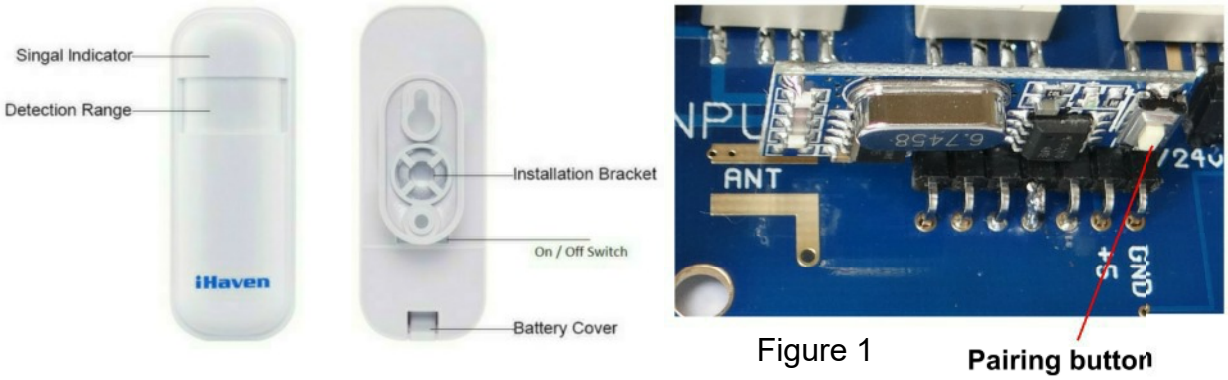


Figure 1

How to Programme the Alarm

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

#ALARM=ON# This will activate the alarm

#ALARM=OFF# This will deactivate the alarm

When sensor/door detect movement you will receive the text message

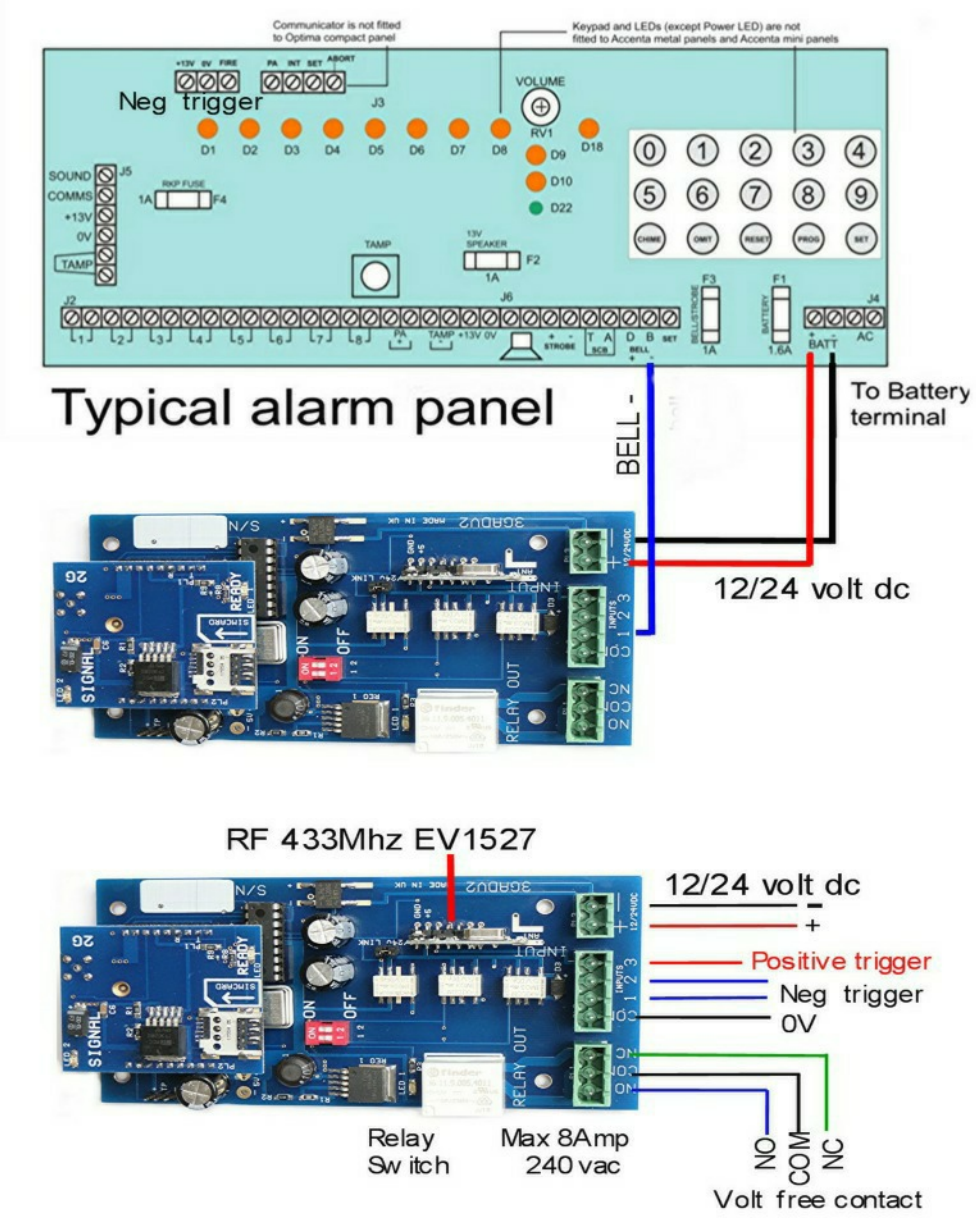
'ALARM TRIGGERED'

NOTE - The alarm will need to be reactivated again once it has been triggered.

The alarm message can NOT be changed from ALARM TRIGGERED

Ensure you have set up your contact numbers as per instructions on page 4

NOTE - Please ensure you supply a 9 - 24 volts DC from the battery terminals via a 2 amp fuse (for alarm panel instructions)



INPUT 1+2

As you can see in the circuit diagram above, the input 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 volt free contact

The relay has Common, Normally Open and Normally Closed contacts which are capable of 8 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 20 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.