G.S.M ACTIVATE

2G & 4G
GSM Wireless Auto Dialler

Model number 2G //4G - AD4IN1V4 - wireless

MADE IN BRITAIN

Product Information

Our 2G & 4G AD4IN1V4 Auto Dialler is a versatile unit which can be attached to many of your electronic devices in your homes, workplace, 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 AD4IN1V4 WIRELESS version has wireless capabilities to make it a standalone alarm using various wireless sensors.

Our 2G &4G Auto Dialler is set apart from other models on the market by being on the quadband frequency meaning it can be used worldwide and we often ship models all over Europe, USA and Australia with excellent feedback.
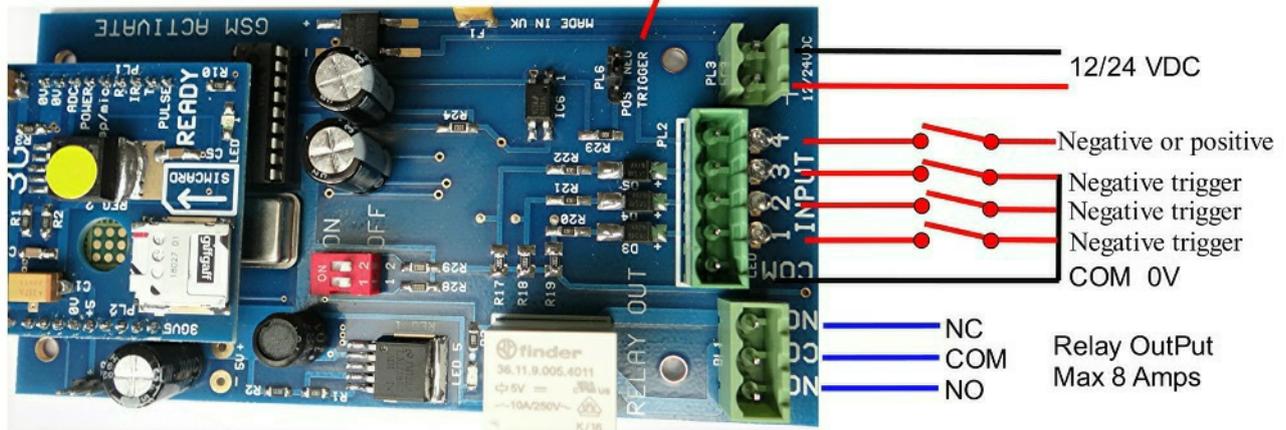
The unit is enclosed in an IP65 rated enclosure meaning that it is perfectly weathered for outside installation and has passed testing in high heats and below freezing temperatures.

Specification

● GSM Frequency: Quadband Frequency 900/1800 mhz (other frequencies available)

● 4G Bands: B1, B3, B5 - B8 , B20 (other bands available on request)

● Power Supply Voltage: 9-24 vold DC - 1 Amp Max

● Current Used in Standby Mode: 60mA Max

● IP65 Rated Enclosure for Outside Installation

● 4 Inputs Negative Triggered

● 1 Input Positive Triggered

● 5 User Numbers

● 8 Amp Relay Output

● Micro Simcard

● No Landline Required

● Dimensions: L150 x W90 x H45mm

● Dimensions PCB Only: L125 x W67mm

● Sim Active Function

● Operating Temperature: -10…+40°C

● Programmed by Text Message

● Text to Test Signal Strength

● 2G or 4G Model Available

INSTRUCTIONS

fig 1
TRIGGER LINK
Input 4 only

12/24 VDC

Negative or positive
Negative trigger
Negative trigger
Negative trigger
COM 0V

NC
COM
NO

Relay OutPut
Max 8 Amps

Input 4 only can be negative or positive triggerd (fig 1)

Inputs 1,2,3 are all negative triggerd

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.

IMPORTANT - PLEASE READ

Please make sure you disconnect the power when you fit the simcard. Then 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 seen in the image 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#

You will then receive a text message telling you the signal strength score between 0 up to 30. We strongly recommend that you place the unit where you can receive a signal strength score of at least 10. You will find anything below this will make the unit unreliable.

Dipswitch

The dialler can work on 2G & 4G networks. The module works worldwide with all simcards (see page 3 for applicable bands). You can choose which frequency the unit will use at the start by using the dipswitch combinations below

1   - Dipswitch 1 Set to OFF & Dipswitch 2 Set to OFF= Unit boots up in 2G

2   - Dipswitch 1 Set to ON& Dipswitch 2 Set to ON   = Unit boots up in 4G

Programming the Contact Numbers

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

You will now need to send a text with the contact numbers (maximum 5 contact numbers).

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

Example (hash) (1,2,3,4 or 5) (equals) (phone number) (hash)

#1=07123456789#   send this as a text to the simcard number in the unit for contact no:1

#2=07234567891#   send this as a text to the simcard number in the unit for contact no:2

#3=07345678912#   send this as a text to the simcard number in the unit for contact no:3

#4=07456789123#   send this as a text to the simcard number in the unit for contact no:4

#5=07345678912#   send this as a text to the simcard number in the unit for contact no:5

Please exchange the mobile numbers for your contact numbers

If you wish to cancel a number follow this example

Example: (hash) (1,2,3,4 or 5) (equals) (DELETE) (hash)

#1=DELETE#   This deletes contact number 1

IMPORTANT - PLEASE READ

Please one message at a time and wait for the Auto Dialler to respond with a text message acknowledgment "NUMBER STORED" before you try to add another number.

Below is a notepad to help you to remember which numbers you have saved to which location in the event you need to modify or delete them in the future.

#1=_____#

#2=_____#

#3=_____#

#4=_____#

#5=_____#

How to Program the SMS Text Message

You can now change the alarm message for inputs 1 & 2 to your own choosing allowing you to know which input has been triggered.

To change the message send the text command as follows.

#MESS1=YOUR MESSSAGE#   The default message is - Input 1 activated

#MESS2=YOUR MESSSAGE#   The default message is - Input 2 activated

#MESS3=YOUR MESSSAGE#   The default message is - Input 3 activated

#MESS4=YOUR MESSSAGE#   The default message is - Input 4 activated

This will change the message to "Your Message"

Please Note - You can only use a maximum of 19 character 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 the call alert to ON please send the text message

#CALL=ON#

The unit will relay back with "CALL ON"

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

To disarm the call alerts please send the text message

#CALL=OFF#

How to Use The GSM Auto Dialler

The Auto Dialler has four independent input's

Input 1 =	Terminal 1 connection.	(Negatively triggered)	pulled to ground
Input 2 =	Terminal 2 connection.	(Negatively triggered)	pulled to ground
Input 3 =	Terminal 3 connection.	(Negatively triggered)	pulled to ground
Input 4 =	Terminal 4 connection.	(Negatively triggered)	pulled to ground

(Please Note - if you require a positive trigger you can use INPUT 4 providing you have set the link to positive - see page 3 diagram, figure 1)

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

- All inputs can be triggered independently.

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

We have an 8 input plug in board available on request. Please use the contact details at the bottom of the page for more informaion.

Alarm Input - Input 4 only

INPUT 4 can also be used as the alarm input where the input is not always live and it does not auto reset like inputs 1 - 3. The alarm is only made live by sending an SMS/text message command. This is useful for attaching things like PIR or Beam Sensors, when you may only want them armed at night.

To activate this mode, send the sms/text command

#MODE=2#   This sets the unit to alarm mode

Once in alarm mode the dialler can only be triggered after you have activated the alarm input by sending the text command as follows.

#ALARM=ON#   You will receive a text message reading "ALARM ON"

With the alarm ON, INPUT 4 will then be live and looking for a trigger. To turn off (Deactivate) the alarm, please send the text command:

#ALARM=OFF#   This will deactivate the alarm.

The input will not reset automatically after a trigger. You will need to send the text command #ALARM=ON# when you want it armed again.

To change back to auto mode, send the sms/text command

#MODE=1#   This sets the unit to auto mode

How to Use the Relay Output

Auto Relay Trigger Input On (see below)

The Auto Dialler has an 8 amp volt free contact relay output which can be used to switch on external electric 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 ON relay output

#REL=OFF#   This will turn OFF relay output

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

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

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

Auto Relay Trigger Input On

The Relay can be set to automatically pulse for 17 seconds when an input has been triggered. Please be aware of any conflicts this may cause if you are already using relay 2 as an independently activated relay. To turn this function on, please send the text command:

#AUTO=ON#   This will turn the auto function on for relay on

#AUTO=OFF#   This will turn the auto function OFF for the relay (default setting is off)

Resetting the Unit

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

WARNING - This will reset all of your parameters. ONLY send this command when necessary. The GREEN ready LED will flash 8 times.
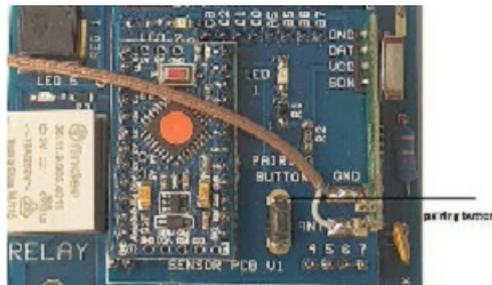
Wireless Sensors

Our wireless plug in allows up to 4 sensors to be paired to the Auto Dialler. These sensors need to be 433mhz and 1527 coding. By using the wireless plug in, it will turn the Auto Dialler into a wireless alarm system with the sensors having up to a 100 meter range to the Auto Dialler board.

To pair a sensor to the board you need to press the pairing button equal to the position you wish the sensor to be paired to and then trigger the sensor.

Example:

- Press the pairing button once and triggering the sensor will pair the sensor to Input 1

- Press the pairing button four times and trigger the sensor will pair the sensor to Input 4

LED 2 will flash when you press the pairing button. LED 1 will flash when the paired sensor is active.

Wired Auto Dialler Inputs and Alarm

The wired Auto Dialler inputs will still work and these will be shared with the wireless sensors.
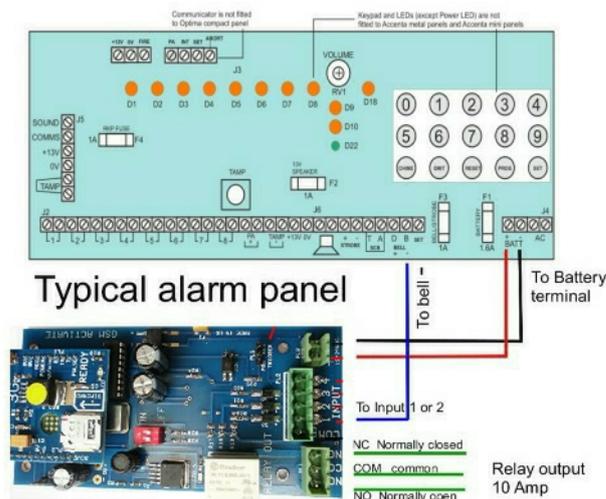
For example, if you have the bell of an alarm wired into input 1 as well as pairing a beam into input 1 when either is triggered it will send the input 1 text message. Therefore it is best to use separate inputs for the sensors and wired devices if you require different messages for them.

IMPORTANT - PLEASE READ - Input 4 CAN NOT be positively triggered when using the modular plug in
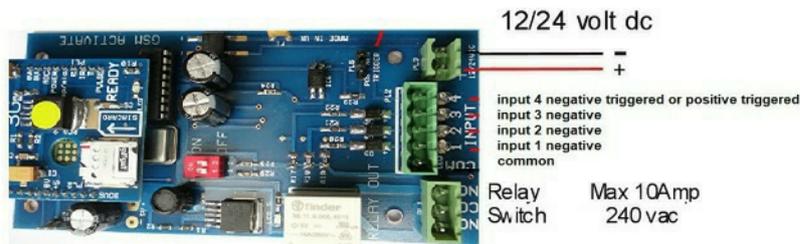
Alarm Mode

The sensors will fall in line with the alarm mode settings (page 6)

However, when using Mode 2 Alarm Mode, all of the sensors will need to be manually rearmed following a trigger - not just input 4

Typical alarm panel

To bell

To Battery terminal

To Input 1 or 2

NC Normally closed
COM common
NO Normally open

Relay output
10 Amp

Input 4
Auto or Alarm mode vis sms command

Negative or Positive trigger via link setting

12/24 volt dc

input 4 negative triggered or positive triggered
input 3 negative
input 2 negative
input 1 negative
common

Relay   Max 10Amp
Switch   240 vac

Inputs

As you can see in the circuit diagram above the inputs can be activated by pulling input 1, 2 & 3 to ground. Alternatively, input 4 can be triggered by pulling to ground or if the link is applied using a positive trigger.

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 - Please refer to page 6

NOTE - For alarm panel installations please make sure you supply a 9-24 volts DC from the battery terminals using a 2 amp fuse.

www.gsm-activate.co.uk - 01273462380 - sales@gsm-activate.co.uk

SEND TEXT	OPERATION	ACKNOWLEDGMENT
#MESS1=MAX19CHARACTER#	Stores a custom message for input 1	Message 1 Stored
#MESS2=MAX19CHARACTER#	Stores a custom message for input 2	Message 2 Stored
#MESS3=MAX19CHARACTER#	Stores a custom message for input 3	Message 3 Stored
#MESS4=MAX19CHARACTER#	Stores a custom message for input 4	Message 4 Stored
#SIGNAL#	Gives a Signal Strength 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
#4=NUMBER#	Saves Contact Number 4	Number Stored
#5=NUMBER#	Saves Contact Number 5	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
#4=DELETE#	Deletes Contact Number 4	Number Deleted
#5=DELETE#	Deletes Contact Number 5	Number Deleted
#MODE1#	Sets mode as Auto Mode	Mode 1 On (default)
#MODE2#	Sets mode as Alarm Mode	Mode 2 On (default)
#ALARM=ON#	Sets Alarm to On	Alarm On
#ALARM=OFF#	Sets Alarm to Off	Alarm Off (default)
#REL=ON#	Turns On Relay Output	Relay On
#REL=OFF#	Turns Off Relay Output	Relay Off
#AUTO=ON#	Turns Auto Relay Trigger On	Auto On
#AUTO=OFF#	Turns Auto Relay Trigger Off	Auto Off
#PULSE=REL#	Pulses Relay Output for 20 Seconds	Relay Pulse
#CALL=ON#	Switches Text & Call Alerts on	Call on
#CALL=OFF#	Text Alerts Only	Call off (default)

Different Plug In Boards

Different plug in boards are available to purchase from our website or by calling or emailing the sales team on the below contact details. These add the following functionality to the Auto Dialler

8 Input Auto Dialler - high and low triggering

Speech Auto Dialler with recorded message

Wireless Auto Dialler with 120ft range wireless sensors

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