4G SMS TEXT Dialler

# Operation Manual

What the LEDs means:

Signal (Blue LED) - Indicates that there is a SIM card installed. Solid blue light means no SIM card installed. Flashing blue light means SIM is installed and it's continuously scanning for best network signal.

Ready (Green LED) - When illuminated this means that the system has connected to the mobile network.

Triggered (Green LED) - This illuminates only when an alarm has been triggered by the external device/switch connected to the text dialler.

SIM Cards

Recommended SIM cards can be used providing there is an adequate signal for the mobile operator in the area. PAYG SIMS can be used, please ensure sufficient credit is assigned.
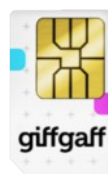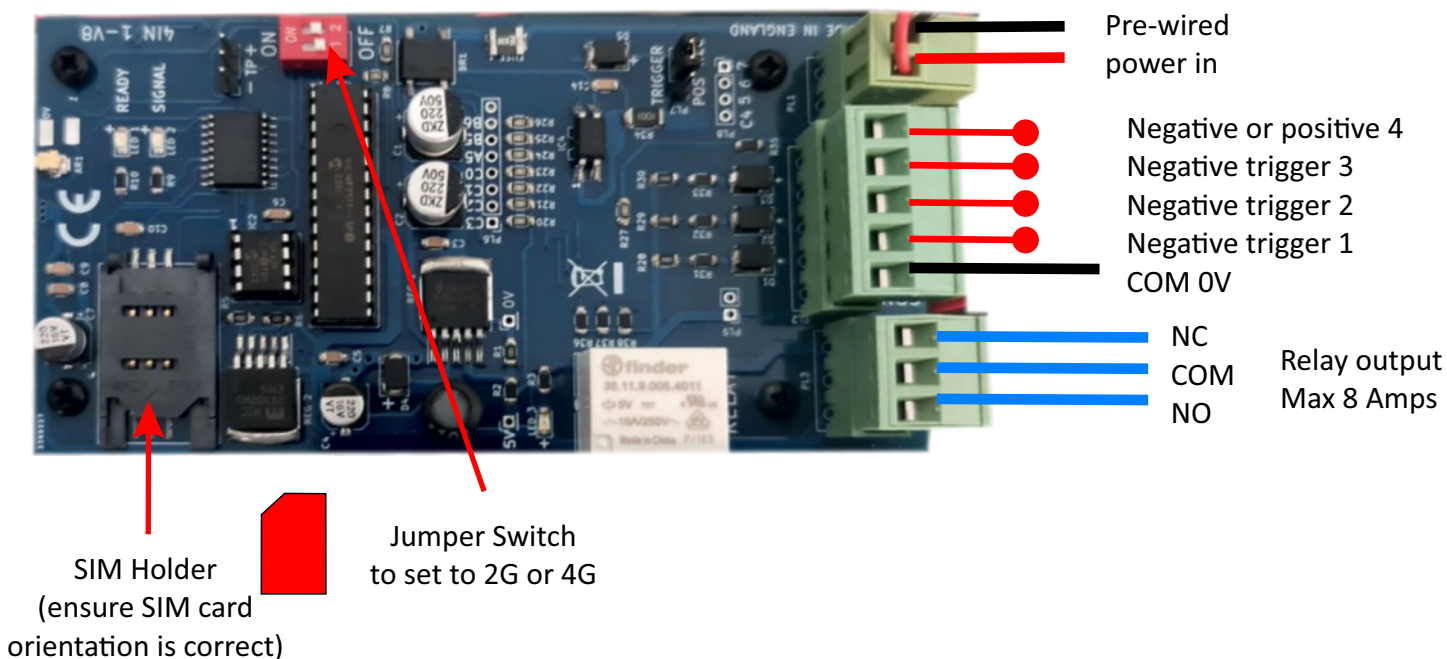
Product Information

The 4G Text 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!

The 4G Text Dialler is set apart from other models on the market by being on the quadband frequency meaning it can be used worldwide and we have ship models all over Europe, USA and Australia with excellent feedback.

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 VDC - 1 Amp Max
- Current Used in Standby Mode: 60mA Max
- IP65 Rated Enclosure for Outside Installation
- 4 Inputs Negative Triggered
- 1 Input Positive or Negative Triggered
- 5 User Numbers
- 8 Amp Relay Output
- Micro Simcard
- No Landline Required
- Dimensions: L185 x W125 x H90mm
- Dimensions PCB Only: L125 x W67mm
- Operating Temperature: -10 +40°C
- Programmed by Text Message
- Text to Test Signal Strength
- 2G or 4G Model Available

Pre-wired power in

Negative or positive 4
Negative trigger 3
Negative trigger 2
Negative trigger 1
COM 0V

NC
COM
NO
Relay output Max 8 Amps

Jumper Switch to set to 2G or 4G

SIM Holder (ensure SIM card orientation is correct)

Dipswitch

The dialler can work on 2G or 4G networks. The module works worldwide with all SIM cards. 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
Note if you have ordered a 2G only dialler it will only work on 2G

Wiring to a 230VAC power supply

Connect a live and neutral wire from a fused spur (or similar) to the 3 way fused connector block located on the metal base plate in the SMS text dialler. No earth wire is required as the power supply provided with the SMS text dialler is double insulated and does not require this.

Note:
The SMS Diallers are not supplied with cable entry or grommets. Hole positions for mounting and cable entry are at the discretion of the end user.

Neutral

Live

FUSE
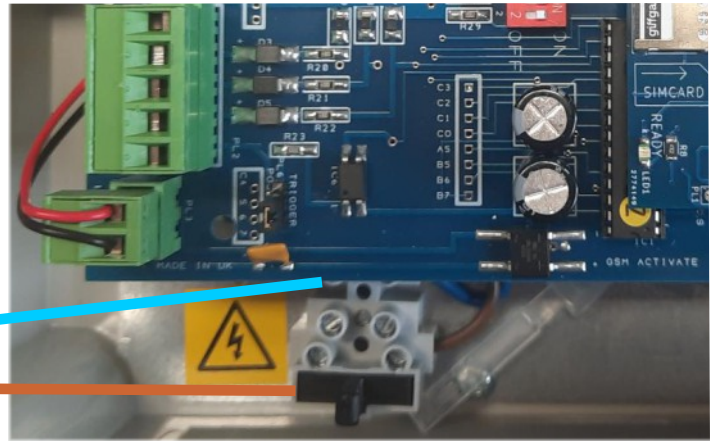
Attaching the Antenna

The SMS text dialler comes with a flat style antenna with connection lead. Screw the female brass connector on to the male threaded screw on the top of the SMS text dialler. Be careful to locate the small pin in the antenna connection into the small hole in the centre of the male screw connector on the SMS text dialler. Be careful not to over tighten the connection, hand tight is fine.

Fitting the optional battery backup (battery backup is factory fitted if ordered at the same time as the SMS Text Dialler).
In order to fit the battery backup it is necessary to remove the PCB by unscrewing the 4 fixing screws that fix it to the pillars. Be careful not to damage the PCB or pull any connection when doing this. Once removed insert the battery connector into the lead (as shown below), slide the battery under the fixing strap, tighten the strap and replace the PCB.
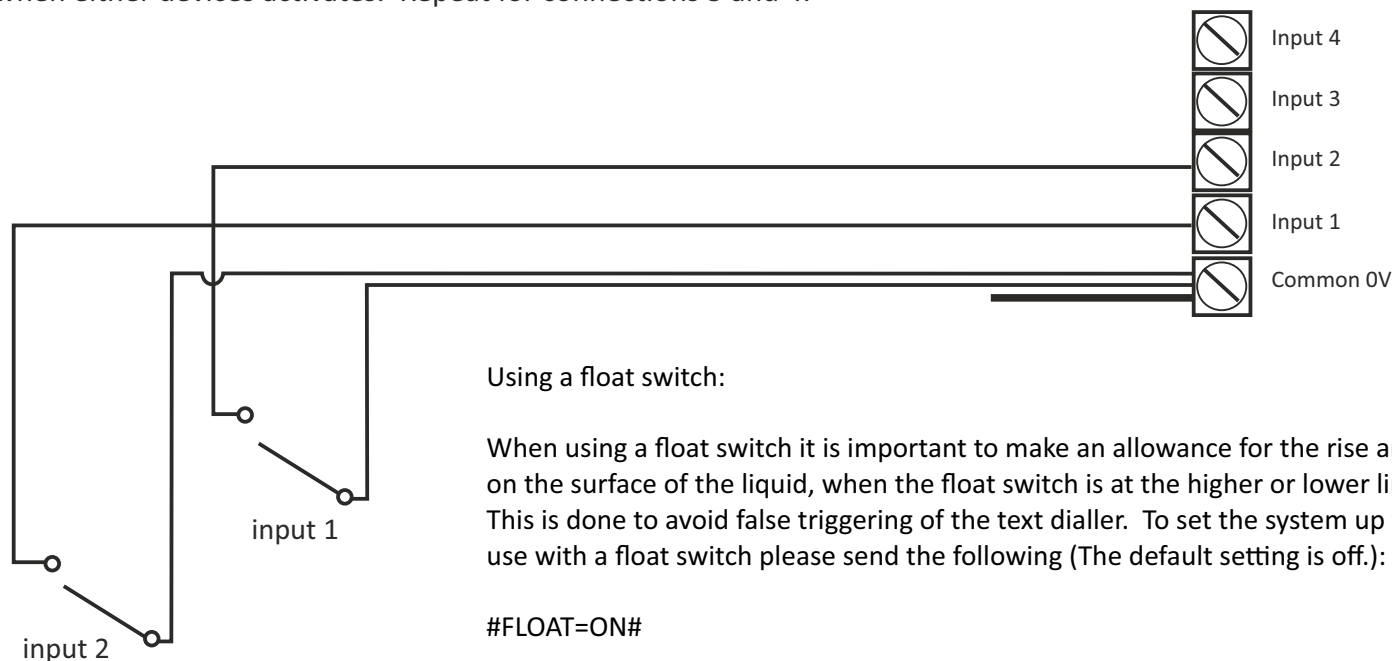
Note: The battery show above is for illustration purposes and the battery supplied may look different.

Input Connections

Connecting the external device:

Using a pair of wires taken from the external devices output, connect one side to 0V and the other to Input 1, this will trigger an SMS text when external device (1) activates. If fitting a second external device connect one side to 0V (this is a common connection) and the other side to Input 2. This will send a different text message when either devices activates. Repeat for connections 3 and 4.

Using a float switch:

When using a float switch it is important to make an allowance for the rise and fall on the surface of the liquid, when the float switch is at the higher or lower limits. This is done to avoid false triggering of the text dialler. To set the system up for use with a float switch please send the following (The default setting is off.):

#FLOAT=ON#

Should you for any reason want to switch off the feature the send #FLOAT=OFF#

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 (Positive or Negatively triggered) pulled to ground

(Please Note - if you require a positive trigger you can use INPUT 4.

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

•   All inputs can be triggered independently.

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

There is an 8 input plug in board available on request. Please use the contact details at the back of the manual for more information.

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 sensors, when you may only want them armed at night.

See section on setting the alarm mode later in the manual.

Connections for a float switch

Input Connections for High Level Monitoring

Input 4
Input 3
Input 2
Input 1
Common 0V

Black wire from float switch
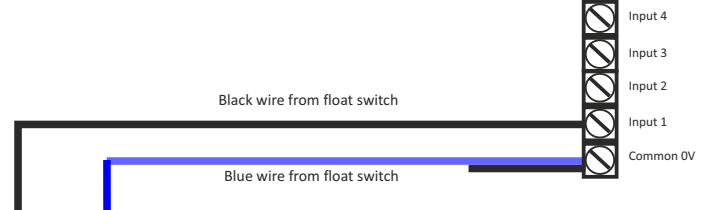
Brown wire from float switch
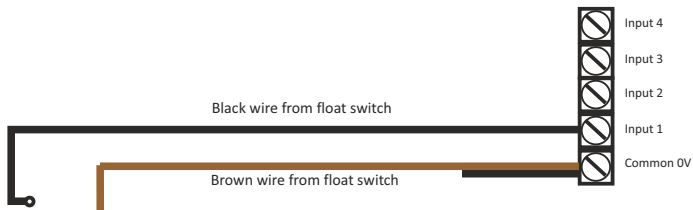
Float
Switch

Connecting the float switch for high level alarm:

Take the black and brown wire coming from the float switch and connect the brown wire to 0V and the black wire to Input 1, this will trigger an SMS text when the float switch rises.

Note: Capable of having 0 -30V on these connections.

(These connections are only for the float switch provided by Envirotech Alarms Ltd. If you are using a different float switch, please refer to the installation instructions particular to this)

Input Connections for Low Level Monitoring

Input 4
Input 3
Input 2
Input 1
Common 0V

Black wire from float switch

Blue wire from float switch

Float
Switch

Connecting the float switch for low level alarm:

Take the black and brue wire coming from the float switch and connect the blue wire to 0V and the black wire to Input 2, this will trigger an SMS text when the float switch drops.

Note: Capable of having 0 -30V on these connections.

(These connections are only for the float switch provided by Envirotech Alarms Ltd. If you are using a different float switch, please refer to the installation instructions particular to this)

After inserting your SIM card into the Text 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.

Programming the Text Dialler:

All settings are made by sending text messages from a mobile phone. You will need to know the mobile phone number for the SIM card installed in the SMS dialler.

IMPORTANT - PLEASE READ
Only send 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.

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

Note: Please exchange the example 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

Write the phone numbers below to help you to remember which numbers you have saved to which location in the event you need to modify them in the future.

How to Program the SMS Text Message

You can now set the alarm message for inputs 1, 2, 3 and 4 to have a bespoke message, 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

Please Note - You can only use a maximum of 19 character including spaces for your customised message.

#MESS1=_____#

#MESS2=_____#

#MESS3=_____#

#MESS4=_____#

Telephone Call Alerts (optional)

The Auto Dialler can be programmed to make 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 reply 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#

Setting the alarm mode (you do not need to make any of these setting if you are using the SMS Text Dialler to monitor a permanently connected device such as an alarm panel or a float switch).

#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:
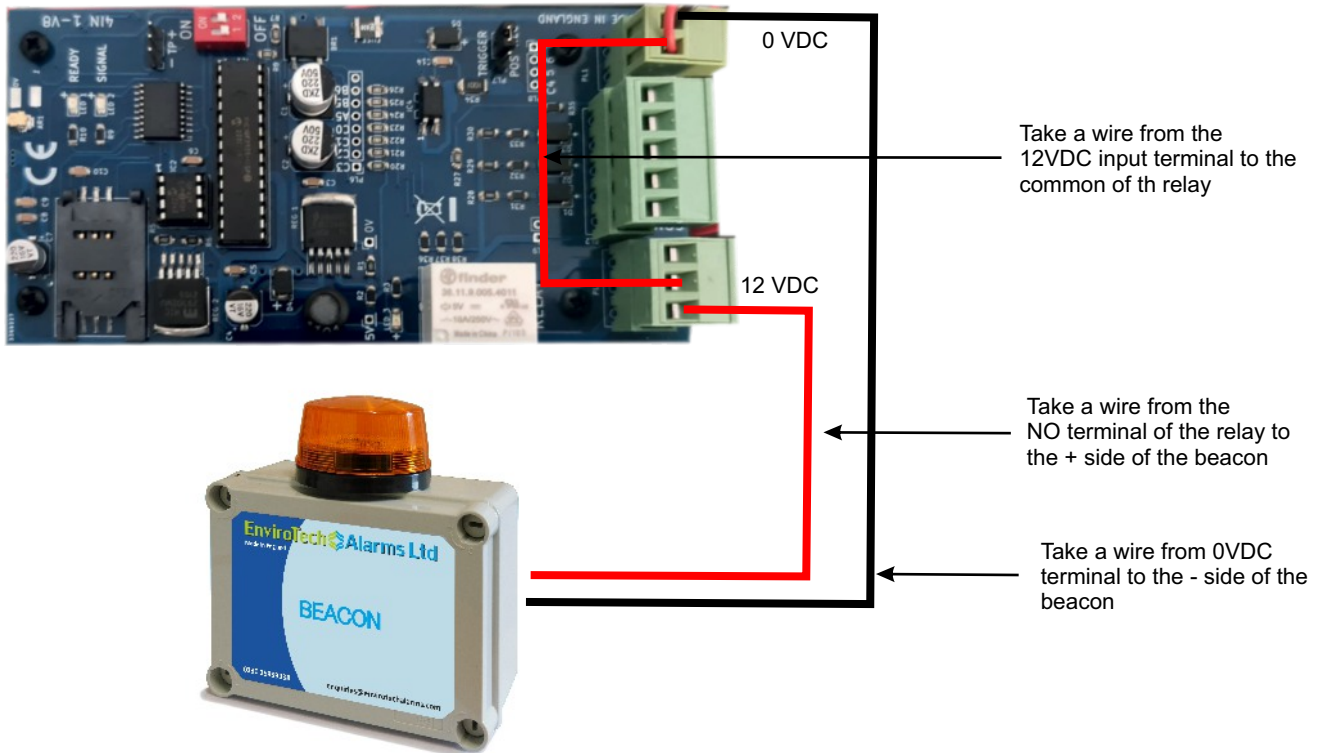
#ALARM=OFF#   This will deactivate the alarm.

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 text command

#MODE=1#   This sets the unit to auto mode - This is the default setting

Wiring from SMS text dialer to beacon

0 VDC

Take a wire from the 12VDC input terminal to the common of th relay

12 VDC

Take a wire from the NO terminal of the relay to the + side of the beacon

Take a wire from 0VDC terminal to the - side of the beacon

#REL=ON#   This turns the relay output on

#REL=OFF#   This turns the relay output off

Inputs

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 activate following an alarm/trigger. It will automatically reset after the alarm/trigger has been cancelled.

Relay Output

Auto Relay Trigger Input On (see below)

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 the relay 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)

Quick Reference

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)

Frequently Asked Questions

Q.   The text dialler won't connect to a network.
A.   Has the SIM card been installed correctly?
        Is there a sufficient mobile signal for the network selected?
        Is the SIM selected compatible with the text dialler? (Try a different SIM card)

Q.   Why do I get text messages when there isn't a high/low level?
A.   Has the instruction #float=on# been sent to the text dialler?
        Is the float switch under the entry point that fills the tank?

Q.   Why is the signal light on continuously?
A.   No SIM card has been installed.