Auto Dial / SMS Messaging Module with controllable Relay

Inserting the SIM card – VERY IMPORTANT

With the white sticky foam facing away from you ensure the SIM card has the contacts facing you and the cut corner to the top right. When removing or inserting the SIM ensure that power is removed from the module. The module has a network connection when the LED near the SIM slot flashes every 2-3 secs. Every 1 sec indicates no network connection.

Connecting the Module

Red wire	+12v
Black wire	0v
Green wire	Trigger 1
Yellow wire	Trigger 2
Blue wire	Relay – Common
White wire	Relay Normally Open
White wire	Relay Normally closed

SMS Alert Module Programming Instructions

Your module can be programmed to call and send a variety of messages and notifications should an activation occur.

Features:

1. Add up to five mobile numbers to be **called** and/or **messaged** when the system is triggered
2. Programme User Configurable Messages
3. Setting Call & Message Notifications
4. Check Signal Quality / Strength
5. Site ID - Naming your Location
6. Programmable Confidence/polling message
7. Using the controllable relay
8. Turning the Messaging ON/OFF
9. Alarm status sensing

Note: Your module is programmed via text message commands which are case sensitive, all commands shown in **BOLD**

1. Adding Mobile Numbers 1 to 5

Enter Mobile Number - Leave no Spaces!

To add a mobile number send the command;
SMSx=07********

Were x is the number 1 - 5

Confirmation SMS message to originator as follows:

ACK SMSx=07*********

Were **x** is the number 1 to 5.

To check the numbers programmed in the module from SMS1 to SMS5;

Send the command;

Status

You will receive conformation of numbers programmed.

Confirmation SMS to originator as follows (example only:
“SMS1=07**********
SMS2=07**********
SMS3=01924*******
SMS4=
SMS5=

To Delete an incorrect or obsolete number, send the command;

SMSx=

Were **x** is the number 1 to 5.

Confirmation SMS to originator as follows:
“ACK SMSx=”

Note: Numbers can also be overwritten directly with a new number if required!

2. Programme User Configurable Messages

There are 3 messages that can be set to notify you if your alarm is 'activated / Set or Unset'. To list the current messages send the command **Message**

From new, the device will return the following SMS to the originator;

MSG1= yyyyyyyyyyy
MSG2=yyyyyyyyyyyyy
MSG3=yyyyyyyyyyyyy
MSG4=yyyyyyyyyyyyy

MSG1 is activated when the Trigger 1 voltage changes from 12v to 0v - Green Wire
MSG2 is activated when the Trigger 1 voltage changes from 0v to 12v - Green Wire
MSG3 is activated when the Trigger 2 voltage changes from 0v to 12v - Yellow Wire
MSG4 is activated when the Trigger 2 voltage changes from 12v to 0v - Yellow Wire

If you do NOT want a particular message for that trigger eg Alarm Set or Alarm Unset, then send the command **MSGx=NO** for the relevant message location. x= numbers 1 to 4

Alternatively the corresponding trigger wire can be connected to 0v

3. Setting Call & Message Notifications

You can choose which numbers up to a 'maximum of five', receive calls and or text alerts when the system is triggered.

Send the command **CALL1=12345**

Send the command **TXT1=12345**

You can set the system to call one or more of the numbers and the same with text messages in any combination, see example:

CALL1=135 - Only these numbers will be called
TXT1=1245 - Only these numbers will receive a text message

Call1 & TXT1 are used to call / send message 1 - Alarm Activated

Send the command **CALL2=12345**

Send the command **TXT2=12345**

Call2 & TXT2 are used to call / send messages 3 - Alarm Unset & 4 - Alarm Set

4. Check Signal Quality / Strength

Send the command **Signal** for an indication of Signal Strength

Return SMS to originator as follows; Signal: 15

Where 2-9 = Marginal, 10-14 = OK, 15-19 = Good, 20-30 = Excellent

5. Site ID - Naming your Location

It's possible to give a site an ID that will prefix your messages. Send the command;

SITE =******** Max 20 characters.

If you do not wish to use the site ID send the command **SITE=NO**.

6. Confidence/Polling function

The AUTO command can be programmed via the command **Auto=x**, x can range between 0 to 7 and represents the interval in weeks between the automatic confidence message being sent. The message is “Automatic Notification - SMS module Active”.

Using the command **Auto=0** will disable the polling function.

Confidence messages can be received to the number located in SMS1 only. It can be used to ensure that inactivity time limits for the credit on PAYG sims is not exceeded. The default setting is weekly.

The unit counts the weeks from the time of switching on. A trigger event does not alter the timing. Eg even if a alarm event occurs, the confidence message is still received at the same intervals.

7. Using the Controllable Relay

The module has one controllable relay with three terminals, Common, Normally Open, Normally Closed. The relay is designed for low voltage and low current operation only, **max 24v @ 300mA**. The relay can be used in three different ways;

i. Toggle – Use command **TOG=ON** to energise the relay permanently ON. Use the command **TOG=OFF** to de-energise the relay OFF.

ii. Momentary – Use the command **MOM** to energise the relay for the programmable Dwell time. The time the relay is energised is programmable up to 90 secs using the command **DWELL=90** (up to 90 secs max).

iii. Calling – The relay will be energised when a predetermined number(s) dials the module. The numbers MUST match a number programmed in 1 of the 5 SMS slots in order for the relay to be energised. The relay remains energised for the DWELL time. No credit is required on the PAYG SIM in order to use this function.

8. Turning OFF the Alert messages

To turn the alert messaging OFF and ON for the trigger wires (yellow and green) use the following commands;

ARM - this activates the alert messages (default)

DISARM - this deactivates the alert messages.

If power is cycled on the unit, the module will return to the default setting.

9. Alarm Sensing

If the yellow wire is connected to a terminal that is able to provide a voltage for when the Alarm is Armed or Disarmed (eg SET terminal), then it is possible to for the module to give a notification as to the alarms panels current armed status.

To receive the status message, send the command;

Alarm

The module will return the message **System Armed** or **System Disarmed**. Dependant on the panel type you may wish to reverse the notifications, use the command;

SET=H or **SET=T** -the default setting is SET=T