

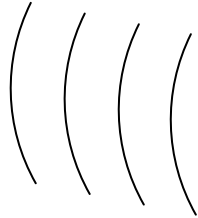
GSM-AUTOSTART

Remote Control and Alarm system via Cell-Phone

Start - Control- Track



Cars and Boats



Plant Hire



Haulage Trucks



GSM-AUTOSTART

Overview of Programming and Functions

Programming in the Cell Phone Administrator Numbers

Programming Administrators Number The System allows you to programme in one Administrator Cell-Phone number that is authorised to access and control the Vehicle or Plant hire equipment and change the parameters of the settings for example the pre-heater, run time and the starter turnover timing.

This Cell Phone number will also receive the S.M.S alerts that the system is programmed to send relating to the Input alarms and Vehicle run Status.

In addition this will receive the incoming voice calls to confirm the Vehicle or Equipment being controlled is actually running and also receive a voice call when the vehicle or equipment has stopped running as per its pre-set running time.

This facility is especially useful if in fact there is a problem part way through the normal run time and the vehicle or equipment has shut down early, you will still receive a voice call and a S.M.S alert to advise you of the early shutdown, which may well be fuel or a mechanical failure.

When programming in the administrator number this must be in the full format of the number as it would be if someone was calling you and if you wish to receive the voice and S.M.S alerts when abroad or out of state, use the full code that would be required to contact you at that destination.

Once this first Administrator number has been programmed in to the system, this will be the only number that can also replace the existing number with a replacement Administrator number, which is just overwritten in the same format as the initial Administrator number.

If in the eventuality that programmes in the wrong number and freezes the system the main supplier can reset the unit remotely back to factory default using a special manufacturer's code.

To programme in the following Cell-Phone Administrator number **1** as **0126052717** you would send the following S.M.S Message to the unit.

***ADM1#07126052717** and you will receive the following return S.M.S Message from the unit

ADM1 < OK > 0712605277

If you wanted to receive the Voice and S.M.S alerts whilst abroad you would send the following S.M.S Message assuming you were in the UK dropping the zero as is common.

***ADM1#0044712605277** and you will receive the following return S.M.S Message from the unit.

ADM1 < OK > 0044712605277

If you want to confirm the Administrator number that has been programmed into the system you can simple send the following S.M.S Message to the unit.

***ADM1#?** and you will receive the following return S.M.S Message from the unit.

ADM1 < OK > 044712605277

Programming in the users cell-Phone Numbers

In addition to the administrator you can programme into the unit up to an additional 10 Cell-Phone numbers that are classified as "**Users**" and although they cannot programme or change any part of the system, they can call the unit and pre-start the vehicle or equipment as pre-set and in addition the authorised "**User**" will receive the confirmation Voice calls when the vehicle is running and also when it as stopped.

The administrator can also choose to receive all of the confirmation voice calls whenever the vehicle or equipment in question has been started regardless of which of the users has initiated the call.

This Information is also stored within the Data Logging memory of the system and can be retrieved directly via the optional soft-ware package and re-stored ongoing for reference.

This would be useful in particular to advise the starting activities of certain Vehicles or Plant hire remotely without the inconvenience and cost of continually receiving delayed text messaging and physically calling and checking up on personnel.

If the vehicle or plant or equipment is not running then no one is working and no money is being earned.

To add the "User" Cell-phone numbers you would use the following format.

To add "User" Number 1 as 012333444555 you would send the following S.M.S Message to the unit.

*ADSR1#02333444555 and you will receive the following return S.M.S Message from the unit.

ADSR1 < OK > 02333444555

To confirm any of the numbers in the "User" list you would send the following S.M.S Message to the unit.

*ADSR1#? and you will receive the following return S.M.S Message from the unit.

ADSR1 <OK> 02333444555 and the same format used up to *ADSR10#? is used

To check all of the number in the "User" list you would send the following S.M.S Message to the unit

*ADSR#? and you will receive two separate similar S.M.S messages.

ADSR1 <OK> 0 2333444555

ADSR2 <OK> 02444555666

ADSR3 <OK> 02555666777

ADSR4 <OK> 02666777888

ADSR5 <OK> 02777888999

This information is also stored and retrieved via the optional software package which allows the adding and deletion of all these numbers remotely via GPRS.

All there is now to do is configure the system for the intended application required and there are various options available using three separate output functions and two input functions.

The system has three outputs and 2 alarm Inputs configured to provide

2 Output Relays to provide up to 12 Volts @ 10 Amps using 30 Amp rated relays for ignition and start and for longevity of the system and other applications.

1 Trigger output to be preset to manually deactivate and reactivate alarm system whilst in running mode from 1 second to 30 second prior to Relay one active and after relay one is deactivated

1 Input one to provide adjustable voltage or vacuum sensor detection for outgoing Voice call confirmation of vehicle running and stop times.

1 input two Alarm input for option connection to existing alarm system or addition alarm function.

Programming the Run time

The system is designed to follow the programmed settings of the system when the unit is called without having to prompt the system at all and the only pre-programming is the required run time and setting the starter optimum period to guarantee a smooth and reliable start up without and over-run that can cause damage to the starter gear.

In locations of extremes of temperature this setting will be required to be altered to suit the climate settings as the colder weather approaches a longer start run will be required.

These starts up time runs can be done completely remotely as once successful the vehicle or maybe generator system will call you back once it has been running successfully for over the period of time set to call you.

Again the run time is programmable remotely and can be altered as the weather conditions predict and a longer pre-start is required.

As the Ignition start time is also the run time this is determined and is programmed into the system in seconds and initially we suggest a short run time of say 60 seconds to be able to set the system without having to wait for the system to time out and you would send the following S.M.S Message to the unit.

***RLY1#00060** and you will receive the following return S.M.S Message from the unit.

RLY1 <OK> 00060

The system is now programmed to switch Relay 1 on and provide Ignition output from the unit for a period of 60 seconds less the few seconds start time.

Programming the Starter Time

You can now programme the Start time which is done by activating Relay 2 a few seconds after the Ignition Relay one has been activated and this can come together or as advised with a few second delay between Ignition and start.

The system also has a programme to delay Relay 2 activating for a period after Relay 1 is active and this can also provide the facility to provide Ignition and pre-heat of Glow-Plugs if required prior to start mode.

To set as in this case say 3 seconds delay between Relay 1 and Relay 2 you would send the following S.M.S Message to the unit.

***RLYD#00003** and you will receive the following return S.M.S Message from the unit.

RLYD <OK> 00003 and the delay between Relay 1 and Relay 2 activating is 3 seconds

Now you can set the start time run to suit your vehicle or Generator plant and this you will do from trial from say 2 seconds and increase by 1 second increments' until a continuous and reliable start up with over run of the starter gear.

To programme the start time for initially 2 seconds you would send the following S.M.S Message to the unit.

***RLY2#00002** and you will receive the following return S.M.S Message from the unit.

RLY2 <OK> 00002 and the start run time has been set to 2 seconds.

If you have a situation where you are aware a few starts is sometimes required to start the engine and you don't receive a confirmation call you can just call the system again, just as you would if you started it and it stopped after a few seconds.

The unit will know if in fact the system has stopped it will repeat the procedure from the start, but if it in fact running correctly the system will ignore you request to start the engine.

This way it is impossible to engage the starter motor gear whilst the engine is running.

Test Start Up

Having assumed you have installed and connected up the system you would now call the unit and the Relay 1 will activate the ignition and Relay 2 will activate the starter.

You would repeat this procedure until you received the optimum start up required with as little over run as possible and then reset your run time to suit your requirements.

Once the system is operating and assuming you have connected up the input detector from either the alternator or vacuum sensor the unit should now call you automatically after the vehicle has been successfully been running continuously for 15 seconds

This is a preset delayed sensor connected to Input one and this can be programmed from 1 second up to 60 seconds

To reprogram the Input sensor delay to call you after say 60 seconds you would send the following S.M.S Message to the unit.

***DST1#00060** and you will receive the following return S.M.S Message from the unit.

DST1 <OK> 00060 and the system will call the administrator or a User after 60 seconds of successful running time.

Setting up the Input alarm SMS Function

There is an alarm function that will allow the administrator to receive text alerts in the event the system is attached to an existing alarm system or in the case of a generator may be an alarm message for say fuel level low and the options are very flexible.

This Input will respond with the detection of 5-15volts D.C or can be configured as permanently powered and trigger a S.M.S Message once the power is removed.

To enable this function for 2 inputs you would send **"*IME1#1"** and **"*IME2#1"**

To disable this function for 2 inputs you would send **"*IME1#0"** and **"*IME2#0"**

Setting up the Input 1 alarm Call Function

There is an alarm function that will allow the administrator to receive call in the event the system is attached to an existing alarm system or in the case of a generator may be an alarm message for say fuel level low and the options are very flexible.

This Input will respond with the detection of 5-15volts D.C or can be configured as permanently powered and trigger a call once the power is removed.

To enable this function for Input 1 you would send **"*ICA1#1"**

To disable this function for Input 1 you would send **"*ICA1#0"**

Note: You can enable either Call or SMS alarm function for Input 1

To Customise the S.M.S Message for Input 1 and 2

To customise the S.M.S Message that the administrator receives from Input two you would send the following S.M.S Message to the unit using the assumed message as the following **"Generator EX12-OPX Fuel Low"** and you can programme in up to 40 characters.

***AMS2#Generator EX12-OPX Fuel Low** and you will receive the following return S.M.S Message from the unit.

AMS1 <OK> Generator EX12-OPX Fuel Low

To check the message that is stored the administrator can send the following S.M.S Message to the unit.

***AMS1#?** and you will receive the following return S.M.S Message from the unit.

AMS1 <OK> Generator EX12-OPX Fuel Low

To change this alert message you would simply overwrite the existing message using the same original S.M.S command as ***AMS1#"and the Message"**

If this function is not required rather than toggle this function off electronically you would just choose not to connect it up or use it.

Switching off the Power failure reporting

In the event you wish to switch off this S.M.S Reporting Function you would send the following S.M.S Message to the unit.

***ADAC#0** and you will receive the following return S.M.S Message from the unit.

***APD#OFF** and the alarm power down function is turned off

To turn this function back on you would send the following S.M.S Message to the unit.

***ADAC#1** and you will receive the following return S.M.S Message from the unit

***APD#ON** and the alarm power down function is now turned back on.

Summary of S.M.S Commands

Enter Admin Number 1	*ADM1#	Enable Input 1 Alarm SMS	*IME1#1
Check Administrator Number	*ADM1#?	Enable Input 2 Alarm SMS	*IME2#1
Add User Number	*ADSR1#	Disable Input 1 Alarm SMS	*IME1#0
Check one User Number	*ADSR1#?	Disable Input 2 Alarm SMS	*IME2#0
Check all User Numbers	*ADSR#?	Set delay time Input one	*DST1#
Set Relay one time run	*RLY1#	Check Input one delay time	*DST1#?
Check Relay one Time run	*RLY1#?	Set Input 1 Message	*AMS1#
Set Relay two run time	*RLY2#	Check Input 1 Message	*AMS1#?
Check Relay two run time	*RLY2#?	Set Input 2 Message	*AMS2#
Set Delay time	*RLYD#	Check Input 2 Message	*AMS2#?
Check Delay time	*RLYD#?	Turn Off Power down alarm	*ADAC#0
Check Signal Strength	*SGH#?	Turn On Power down alarm	*ADAC#1
Enable Input 1 Alarm Call	*ICA1#1	Disable Input 1 Alarm Call	*ICA1#0

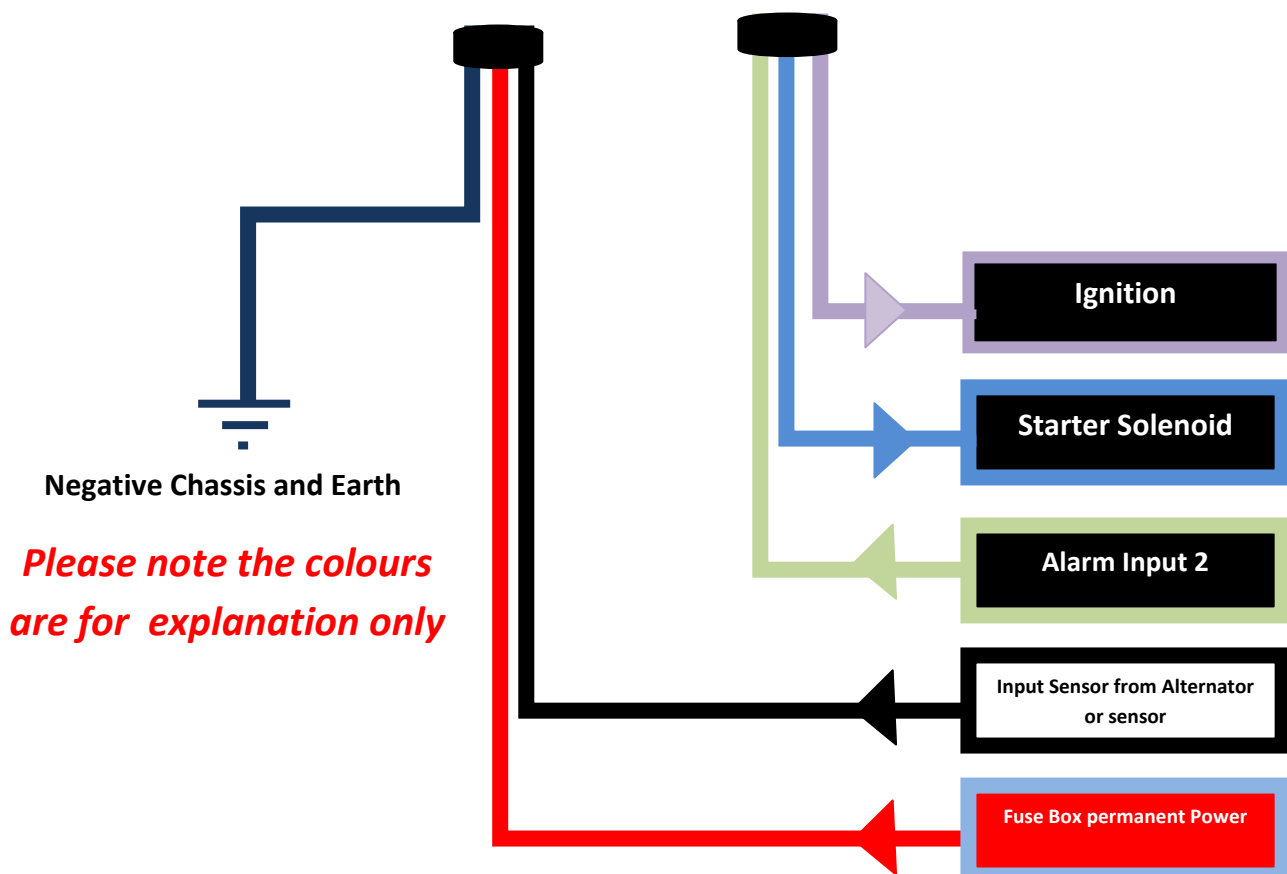
Technical Specifications

Model	GSM-AUTOSTART
GSM Module	Quad Band
Voltage	12-15 Volts D.C
Inputs	2 Digital Programmable
Outputs	2 20 Amp Rated N/O-NC
Antennae	External 4 dB
Approvals	C.E F.C.C
Dimensions	118mm 97mm 56mm
Provisional Interim Specifications	

GSM-AUTOSTART 6 Wire System

Wiring Explanation

GSM-AUTOSTART
Remote control engine starter



Connection Details:

If you are unsure how to connect the device you wish to control please refer to a qualified person.

