



AVS SMS Upgrade

Owner's manual

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Programmed numbers reference

Record the programmed numbers for your future reference:

Vehicle ID (eg. registration plate)

AVS SMS Upgrade SIM card number:

This is your AVS SMS Upgrade's cellular modem number

AVS SMS Upgrade secure operation PIN:

Vodafone account PIN:

Stored mobile numbers:

1:

2:

3:

4:

5:

IMPORTANT

Each time the module sends an SMS it is charged at the normal Vodafone network rate. It is your responsibility to have enough money on the SIM card for the module to send SMS.

Introduction

Thank you for choosing the AVS SMS Upgrade module. It can be added to most car alarms and gives you the additional security of being notified via SMS (text message) to your mobile phone if the alarm is triggered. We recommend that you read this guide carefully and keep it in a safe place for future reference.

System summary

- Remote notification by SMS (text message) if the alarm is triggered
- Up to five mobile phone numbers can be stored and sent notifications
- The module will ring one mobile number if the alarm is triggered to ensure you are notified of an alarm activation
- Notification by SMS if the car battery is running low
- Arms automatically when the car ignition is switched off
- Hyper blue LED warning light activates automatically when the car ignition is switched off
- Programmable six digit PIN for secure operation
- Confirmation SMS reply to each command sent to the module
- Optional features – optional sensors can be directly connected to the module and it can be programmed to activate up to three devices/features via SMS

About the cellular modem

The AVS SMS Upgrade has an inbuilt cellular modem that allows two-way communication between your mobile phone and the alarm via SMS (text message). The modem operates with a SIM card in the same way as a mobile phone. It runs on a Vodafone pre-pay SIM card.

It is your responsibility to ensure your cellular modem SIM card has money on it at all times for two-way SMS communication to operate.

The AVS SMS Upgrade relies on cellular coverage for SMS communication. If your phone is switched off or outside cellular coverage and there is an alarm trigger you will only receive a notification SMS when your phone is switched back on or is back in range.

Note: Manta Electronics and the various network providers do not guarantee the delivery of SMS or calls. Manta Electronics accepts no liability or consequential losses resulting from the non-receipt of a SMS.

Please see the information sheet included.

SIM card set-up

Do NOT insert or remove the cellular modem SIM card while the power is on. Ensure power is off and the AVS SMS Upgrade module is unplugged first.

If this has not already been done by the installer (or for any reason you remove the SIM card and need to replace it):

1. Place the new SIM card in an **existing mobile phone** and turn off "PIN code request." You may need to refer to your mobile phone manual on how to do this.
2. Call 707 and set the 4-digit Vodafone account PIN code. Record the PIN in the Programmed numbers reference in this manual. You will need the Vodafone account PIN code when you want to check or top up the cellular modem's SIM card balance.
3. Insert the SIM card into the AVS SMS Upgrade's cellular modem.
4. Save the AVS SMS Upgrade's cellular modem's SIM card number in your mobile phone to easily recall for sending SMS commands. We recommend that you save it with a meaningful name i.e. AVS SMS Upgrade or other so it is instantly recognisable and you are able to take immediate action if you are contacted by the system.

Mobile phone safety precautions

Please follow these basic mobile phone safety precautions.

1. **Aircraft** - Mobile phones can interfere with an aircraft's navigation system and its mobile network. The use of mobile phones on board aircraft is forbidden by law so please ensure your mobile phone is switched off.
2. **Medical equipment** - Radio transmitters, including mobile phones can interfere with the operation of inadequately protected medical devices. Please address all questions to a doctor or manufacturer of the medical device.
3. **Loss/theft** - If your mobile phone and/or your SIM card are lost or stolen, notify your network operator immediately in order to avoid misuse.

Note: Under no circumstances shall Manta Electronics be responsible for any loss of data or income or any special, incidental, consequential or indirect damages howsoever caused.

Using the SMS commands

Secure operation

You must enter a 6-digit PIN code at the start of each SMS command. The default PIN code is 000000 (all zeros). Please change this to a number that you will remember and record it in the Programmed Numbers Reference. See SMS Secure Operation PIN code for more information.

SMS operation

Sending an SMS to the module

From a mobile phone type the secure operation PIN code followed by the command.

Example: 000000COMMAND

Tips

- You must put the secure operation PIN code at the start of each command
- The message is not case sensitive
- Do not use spaces
- The reply SMS will be sent back to the same phone the command SMS was sent from

Receiving an SMS from the module

- The module will reply to any command SMS sent to it
- It will reply to the same phone the command came from
- It will identify itself at the start of each SMS. To change the identification see System ID.

Normal operation

Activating the module

The module will automatically activate every time your car ignition is turned off. The LED light on the dash will flash to confirm it is active.

Alarm activation

Alarm trigger

When the alarm is triggered an SMS will be sent to all the programmed mobile phone numbers (up to five).

Example: **ALARM ACTIVATED**

Optional sensor trigger

If an optional sensor is activated an SMS will be sent to all the programmed mobile phone numbers (up to five).

Example: **ALARM ACTIVATED AUXILIARY**

Example: if an optional AVS digital tilt sensor is connected to the module and your car is being towed you will be sent an SMS even if the alarm is not armed.

Phone call after one minute of no response

The alarm will also call the number programmed into Location 1 if there is no response to an alarm or optional sensor trigger by either remote or SMS. This is to ensure you are notified of an alarm trigger even if the SMS does not get through.

By not answering or cancelling the call there is no charge to the module's SIM card. If you turn the ignition on within the first minute after alarm activation this cancels the call.

Low car battery warning

The alarm will send an SMS to all the programmed mobile phone numbers (up to five) if your car battery's voltage reaches a critical level. This message will only be sent once in a low battery condition.

Example: **BATTERY LOW WARNING**

Secure operation PIN code

You must enter a 6-digit PIN code at the start of each SMS command. The default PIN code is 000000. Please change this to a number that you will remember and record it in the Programmed Numbers Reference.

How to change the PIN code

1. Type your **existing PIN** code and then **PIN** and then the **new PIN** code
Example: 000000PINXXXXXX (where 000000 is the existing PIN code and XXXXXXX is the new PIN code)
2. You will receive a SMS reply confirming the new PIN code:
Example: **NEWPINXXXXXX**

Tips for setting the PIN code

1. The PIN code must be 6 digits long
2. It can consist of any combination of the numbers 0-9 and letters A-Z.
3. The PIN code is NOT case sensitive
Example: xxxxxx is the same as XXXXXX

Stored mobile phone numbers

The AVS SMS Upgrade can store up to five mobile numbers so that:

- On alarm trigger (or optional sensor trigger) an SMS will be sent to all stored numbers
- The system can ring the number in Location 1 if there is no response to a trigger SMS
- On panic an SMS will be sent to all stored numbers
- An SMS will be sent to all stored numbers if the car battery is going flat

Note: You will be charged the standard Vodafone SMS rate for **each** SMS sent from the AVS SMS Upgrade. Example: if you have five stored numbers the system will send five SMS. Please see the Understanding SMS sheet enclosed.

To get a list of the stored mobile phone numbers

1. Type your **PIN** code and **READPHONE**
Example: 000000READPHONE
2. You will receive a SMS reply listing all the stored numbers and their memory location:
Example: **1. 02X XXX XXX, 2: NOT USED, 3: 02X XXX XXX, 4: 02X XXX XXX, 5: NOT USED**

To add a mobile phone number

1. To add a number you need to specify the memory location and mobile phone number
2. Type your **PIN** code and **WRITEPHONE** then the **location** (1-5) then the mobile phone **number**
Example: 000000WRITEPHONE2XXXXXXXXXX (where 2 is the memory location and XXXXXXXXXXXX is the number)
3. You will receive a SMS reply listing all the stored numbers and their location:
Example: **1: NOT USED, 2: 02X XXX XXX, 3: 02X XXX XXX, 4: 02X XXX XXX, 5: NOT USED**

Note: The AVS SMS Upgrade will overwrite any existing number stored in the memory location you specify.

To delete a mobile phone number

1. To delete a number you need to specify the memory location the number is stored in
2. Type your **PIN** code and **ERASEPHONE** then the **location** (1-5)
Example: 000000ERASEPHONE1 (where 1 is the memory location)
3. You will receive a SMS reply listing all the stored numbers and their location:
Example: **1: NOT USED, 2: 02X XXX XXX, 3: 02X XXX XXX, 4: 02X XXX XXX, 5: 02X XXX XXX**

System ID

There is a system ID at the start of each SMS you receive from the AVS SMS Upgrade. This can be changed.

1. Type your **PIN** code and **ID** and then the **new ID**
Example: 000000IDXXXX (where XXXX is the new ID)
2. You will receive a SMS reply confirming the new ID:
Example: **XXXX ID CHANGE PASSED** (where XXXX is the new ID)

Tips for setting the system ID

- The ID can be up to 19 digits long
- It can consist of any combination of the numbers 0-9 and letters A-Z
- The ID is NOT case sensitive (xxxxxx is the same as XXXXXX)

Optional features

Optional features are dependent on the systems already in your vehicle. Some features may require additional parts and/or additional installation charges. Not all features are available on all vehicles and they are subject to change. Please check with your AVS installer.

SMS controlled relay outputs

The system has three outputs that can be switched on and off by SMS. These can be used to control functions such as turning your car lights on/off or to operate other devices such as extra sirens or window roll-up modules.

To operate an SMS relay output

To turn output 1 on:

1. Type your **PIN** code and **ONOUT1**
Example: 000000ONOUT1
2. The system will turn on that function
Example: your car lights will turn on
3. You will receive a SMS reply:
Example: **OUTPUT1 TURNED ON**

To turn output 1 off:

1. Type your **PIN** code and **OFFOUT1**
Example: 000000OFFOUT1
2. The system will turn off that function
Example: your car lights will turn off
3. You will receive a SMS reply:
Example: **OUTPUT1 TURNED OFF**

Note: To turn output 2 and 3 on and off simply change the output number on the SMS

Example: ONOUT2, OFFOUT2, ONOUT3, OFFOUT3

Note: The output will stay on until you turn it off via SMS

Lock/unlock your car via SMS

The module can be connected to your vehicle's central locking system so you can lock/unlock the car doors via SMS. This is useful if the keys are accidentally locked in the car or you forget to lock the car.

To lock via SMS

1. Type your **PIN** code and **LOCK**
Example: 000000LOCK
2. The system will lock the car doors
3. You will receive a SMS reply to confirm:
Example: **DOORS LOCKED**

To unlock via SMS

1. Type your **PIN** code and **UNLOCK**
Example: 000000UNLOCK
2. The system will lock the car doors
3. You will receive a SMS reply to confirm:
Example: **UNLOCKED**

SMS commands glossary

Use this guide as a reference for all AVS SMS commands and replies:

Tips

- You must put the secure operation PIN code at the start of each command
- The message is not case sensitive
- Do not use spaces
- The reply SMS will be sent back to the same phone the command SMS was sent from
- The system is limited to sending a maximum of 25 SMS replies in 8.5 minutes in case of malfunction
- The default secure operation PIN code is 000000 (all zeros)
- SMS commands sent with no valid secure operation PIN code will not get responded to
- If the system receives an SMS that contains a valid secure operation PIN code but a command that is not recognised it will reply with a list of commands that are available i.e. **UNKNOWN COMMAND. COMMANDS ARE: UNLOCK LOCK ONOUT1 OFFOUT1 READPHONE WRITEPHONE ERASEPHONE ID PIN**
- The 6-digit secure operation PIN code **MUST** be in front of all SMS commands.
- The ID (identification) is at the start of every SMS received from the alarm.

SMS commands and replies

Each command below is listed with the symbol > referring to SMS commands to send to the system and the symbol < referring to reply SMS from the AVS SMS Upgrade module.

>**UNLOCK**

<Doors Unlocked

>**LOCK**

<Doors Locked

>**ONOUT1** (these are the same for outputs 1, 2 and 3, just the number changes)

<Output1 turned on.

>**OFFOUT1**

<Output1 turned off.

>**READPHONE** (read phone memory)

<Phone numbers. 1:xxxx 2:xxxxx 3:xxxxx 4:xxxx 5:Not used (the module will put 'Not used' in any location that does not currently have a stored mobile phone number)

>**ERASEPHONEX** (x = phone memory location 1 to 5)

<Phone numbers. 1:0407123001 2:0407123002 3:Not Used 4:0407123003 5:0407123006 (the module will put 'Not used' in any location that does not currently have a stored mobile phone number)

>**WRITEPHONE**xyyyyyyy (x = phone memory location 1 to 5, y = mobile phone number to be stored)

>WRITEPHONE30414221331 (example)

<Phone numbers. 1:0407123001 2:0407123002 **3:0414221331**

4:0407123003 5:0407123006

<Failed to update phone number, memory location error (if location 0,6,7,8,9 was entered as the location.)

>**ID**xxxxx (xxxxx = new module ID)

< xxxxxx. ID change passed.

>**PIN**xxxxxx (xxxxxx = new secure operation PIN code)

<New PIN number xxxxxxx

<PIN change fail. Valid characters are 0-9 a-Z

SMS alerts

The alarm will send an SMS to each of the mobile phone numbers in the system's memory (up to five) if any of the following occurs:

< **PANIC ALERT!**

< **ALARM ACTIVATED! XXXX** – where XXXX is either bonnet, shock, ignition, door, auxiliary or glass

< **BATTERY LOW WARNING!**

Three year warranty

Complete the information below and keep with your original receipt for the three year warranty period.

Installation detail:

Install date: _____ NZSA #: _____

Installer: _____

Product: **SMS Upgrade module** _____

Additional: _____

Your details:

Surname: _____ Initials: _____

Address: _____

Vehicle
make/model: _____ Rego #: _____

Terms and Conditions:

Manta Electronics Ltd warrants the original consumer purchaser that the product described above, installed in the vehicle above, is free from defects in material and workmanship. Should this product be proven to be defective in materials or workmanship during the term of the warranty, Manta Electronics Ltd shall replace or repair any product or part of the product which Manta Electronics Ltd agrees is defective, without charge.

Warranty on installation labour, removal and reinstallation charges are not the responsibility of Manta Electronics Ltd.

If you require a mobile technician to call there will be a call out charge regardless of the cause of the fault.

Any damage to the products as a result of misuse, abuse, neglect, accident, incorrect wiring, improper installation, repair or alteration outside Manta Electronics Ltd approved dealers will void warranty.

Remote control transmitters and batteries are not covered under warranty.

This warranty shall not apply to any product which is found to have been modified, repaired or altered in any way without the express written consent of Manta Electronics Ltd. This warranty shall not apply to any equipment or product connected to the Manta Electronics Ltd product.

This warranty does not constitute a guarantee or insurance against the theft of the vehicle or contents thereof.

This warranty does not affect your rights under the Consumer Guarantees Act.



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