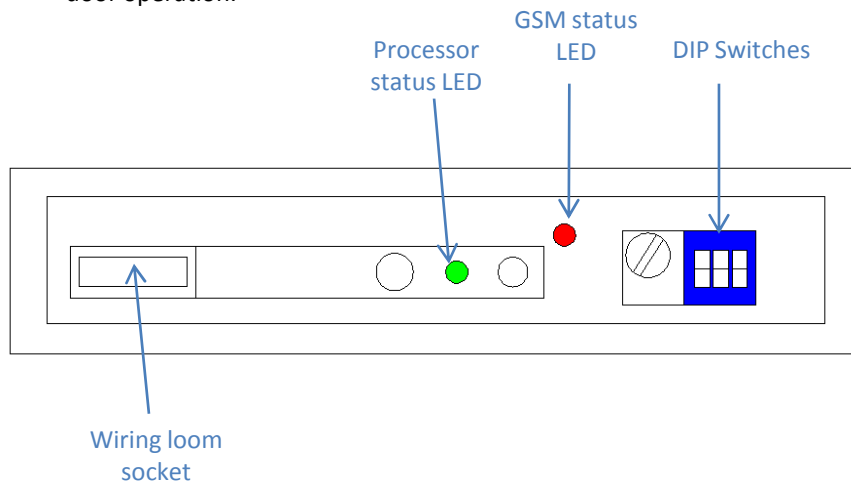
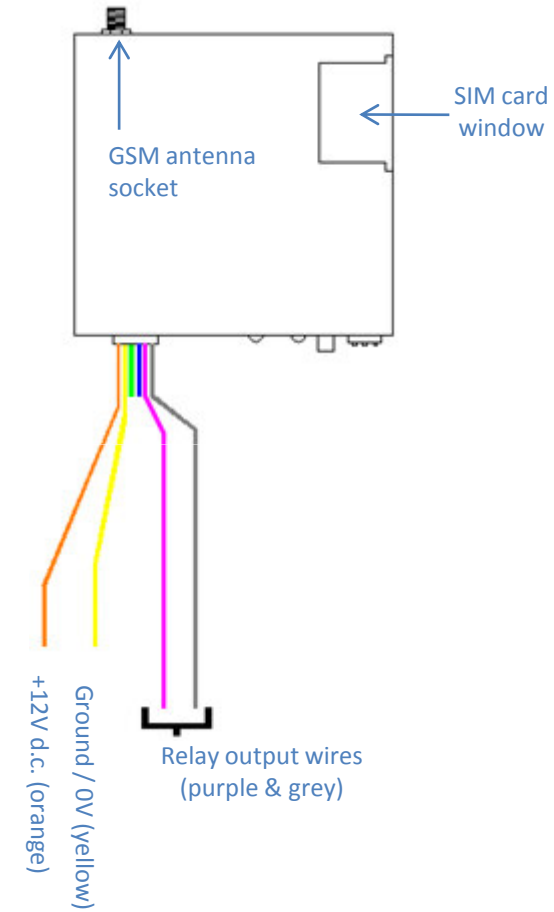




- 1) Please read this entire manual before attempting to install this system.
- 2) Always ensure that the power is switched OFF before inserting or removing a SIM card or damage will be caused to the module. Take EXTREME care when installing or removing the SIM from its holder.
- 3) When mounting the unit, it is advisable to select a location with best GSM reception in mind.
- 4) To maximise reception, install the GSM antenna in a prominent elevated position if possible, and vertically mounted.
- 5) The GSM unit requires mounting in a weatherproof enclosure for outdoor operation.



Switch	Application	ON	OFF
1	Programming mode	Enabled	Disabled
2	Automatic number learning or manual number entering	Manual (normal)	Automatic
3	Relay output function (Usually off for automatic gates)	Latching	Pulse



Terminal	Description
Orange	24-12V a.c./d.c.
Yellow	GND / 0V
Grey	Volt free switch wire
Purple	Volt free switch wire



SIM Card

Choose a SIM card which has the best reception in the area for optimum reliability.

If you are using a pay and go SIM card, please ensure that the unit has adequate calling credit before installing into the unit. Please also ensure that there are no ring back features enabled or call divert.

Telephone Number Memory Locations

The following table describes the functions of memory locations in the unit.

Location	Function / Description
000	Master programmer location. Any number stored here will be able to reprogram the unit without needing to attend the site and switch on DIP switch 1.
001-999	Numbers stored in these locations can call the unit to gain access at no call charge. I.e. Call your gate / door to open. The unit will recognise the number, trigger the output relay, and hang up without answering the call.

Programming

- 1) To begin programming, ensure that DIP switch 1 is ON, enabling programming mode. and DIP switch 2 is ON enabling manual programming mode (most popular method).
- 2) Ring the unit from the master telephone number which you intend to use for maintenance etc. Once the GSM unit answers, you will hear a long acknowledgment tone.
- 3) Enter the following sequence to clear the SIM card from all data and numbers...

* 4 * * * # (Erase memory)

- 4) The unit will now hang up. Redial the intercom number to recommence programming.
- 5) Enter the following sequence to program in the master telephone number...

0 0 0 * ? - - ? #
Memory Location Telephone Number

After entering each number, the unit will play an audible message, repeating the number back to you.

5) Repeat this process for memory location 001, 002 etc until you have all numbers entered. Please check that the repeated message you hear matches the number you just typed in, to eliminate errors.

6) When finished, PLEASE ENSURE TO SWITCH OFF DIP SWITCH 1, SO THAT THE UNIT WILL RETURN TO NORMAL OPERATION MODE BEFORE TESTING. Once the master number has been entered, the master number can ring the unit and change programming at any time, even with DIP switch 1 OFF.



Additional Features

- 1) When the master user calls the SIM in the GSM unit, it will answer the call to allow access to programming features. Sometimes it is necessary for the master user to trigger the relay output. This can be done by entering the following sequence....



Trouble Shooting

- 1) The GSM unit will not boot up. **A – Check power source is correct and polarity is good.**
- 2) The GSM unit will not answer my call. **A – Check SIM card is installed correctly. Check that the SIM card can be called when installed in a mobile phone. If not, it may need registered and credit applied. If the SIM card functions normally, check that the DIP switch 1 is ON for programming mode. Note: Phones that withhold their number cannot call the unit either for programming or to open gates etc.**
- 3) The unit works and programs OK but does not work in a specific location or site. **A – Check the reception of the SIM card in a mobile phone at the customer's site. If the network reception for that particular SIM card is poor, try switching to another network. Your customer may be able to advise on the best network for optimum coverage and reliability in that area.**

Operation

- 1) This is the simple part. Any programmed number stored in locations 001 to 999 can ring the unit to trigger it. There is no call charge to the user and the unit will hang up the call without answering. The engineering number can ring the unit and open the gates by entering * 5 # to open the gates.

Specifications

Operating frequency	Dual band 900 / 1800 MHz
Power consumption	200mA on dial up, 30mA on standby
Dimensions	110mm x 110mm x 25mm
Compatible networks	All known networks are compatible
IP rating	Requires enclosure IP56 or better
CE approval	YES

Contact Information

For technical support, contact your distributor or supplier firstly.

Manufactured by;
Advanced Electronic Solutions
Unit A,
4 Annagh Road,
Cookstown,
Co Tyrone,
BT80 9AS
Northern Ireland

Tel: 0044 (0)28 8676 7878
Fax: 0044 (0)28 8676 0085
www.AES-NI.co.uk