**LINK OUTPUT TIMER**

The Link Output Timer is a new feature which, when activated, will link Input 4 to Output Relay 4. There are 2 options for the link output timer.

- **Immediate Link** which will cause output relay 4 to remain on for as long as input 4 is triggered.
- **Timed Link**, which will cause output relay 4 to remain on for a set amount of time (up to 99 minutes) when input 4 is triggered.

**Immediate Link**

```
*1234 SYS LINK 0*
```

**Timed Link**

```
*1234 SYS LINK X*
```

Where 'X' is the length of time in minutes.

**Remove Link**

```
*1234 SYS LINK*
```

**Example:**

Activate Relay 4 for 10 minutes after input 4 is activated

```
*1234 SYS LINK 10*
```

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**GET STATUS COMMAND**

To retrieve the current status of the input and outputs send the following SMS:

```
*1234 GET STATUS*
```

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**INPUT NAMES AND DESCRIPTIONS**

The Input names and the activation messages can be set in the following manner:

- All descriptions may be up to 15 characters
- **Set description for input 1:**

```
*1234 SYS INP1 FRONT_DOOR*
```

To change the descriptions of other inputs substitute INP1 with either INP2, INP3 or INP4.

- All inputs have either a HIGH or LOW condition and both messages for each input may be changed.
- By default the INPUT HIGH message is "HIGH" and the low message is "LOW".

Set "INPUT HIGH" description for input 1:

```
*1234 SYS INH1 OPENED*
```

Set "INPUT LOW" description for input 1:

```
*1234 SYS INL1 CLOSED*
```

Activating Input 1 will send the following message to the user:

```
SYSTEM NAME
FRONT DOOR OPENED
```

Restoring Input 1 to low will send the following message to the user:

```
SYSTEM NAME
FRONT DOOR CLOSED
```

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**SYSTEM SETTINGS**

- **System name**
  - Change the system name that is reported at the beginning of an SMS from the unit:
  - *(up to 15 chars)*
  - The default setting for this is "GSM AIO <VER>"
  - Where <VER> is the software version

```
*1234 SYS NAME MY HOUSE*
```

- **Change System password**
  - W = alphanumeric character (4 characters), 1234 is the default system password

```
*1234 SYS PASS WWWW*
```

- **Retrieved forgotten password**
  - This will SMS the status number the password (Only if the status number is set)

```
*1234 FOR*
```

- **Adding Air-time**
  - W = Numeric recharge voucher number given by service provider.

```
*1234 SYS AIRT WWWW****
```

- **Retrieve air-time**

```
*1234 SYS AIRT*
```

- **Output Pulse Time**
  - W = seconds (up to 99) - Applies to all outputs

```
*1234 SYS PULS W*
```

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**Examples:**

- Change the system password from 1234 to 7788:

```
*1234 SYS PASS 7788*
```

- Add airtime:

```
*1234 SYS AIRT 1234123412341234*
```

- Change pulse time to 2 seconds:

```
*1234 SYS PULS 2*
```

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**LINK OUTPUT TIMER**

**INPUT NAMES AND DESCRIPTIONS**

**SYSTEM SETTINGS**

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**GSM AIO**

**ALL-IN-ONE**
GSM AIO

- This all purpose unit may be used in any application where there is a need to control and monitor 4 inputs and 4 outputs.
- Once the input has been enabled and is triggered, the telephone number(s) programmed for that input will be notified by SMS.

This will occur for both activation and restoral of inputs. Each input may be assigned a name to make notifications more understandable.

- Calling the unit from a programmed number will pulse relay 1 at no charge to the caller (up to 250 numbers) typically used for opening a gate.
- Mimic all inputs on the outputs of another unit through the use of the COPY CAT

CONNECTING THE GSM UNIT

External Antenna

POWERING UP

- On applying power to the unit all LEDs will be illuminated whilst the blue LED flashes once ever second.
- At this point system diagnostics takes place and the unit attempts to go on air
- As each test is passed the LEDs will proceed to turn off in the order Orange, Red, Green
- Once the unit is on air and tests have been passed the ORANGE LED will flash once every second and the blue LED once every 3 seconds
- At this point the unit is operational and may be configured

TROUBLE SHOOTING:

If all 3 LEDs flash at the same time this may be one of two reasons:

1. - The SIM card is not inserted correctly
2. - There is a PIN number on the SIM card and it must be removed, this may be done by inserting the SIM card into a phone and removing the pin through the security menu

If green LED stays illuminated please check that the antenna is correctly connected and that your SIM card is activated

PROGRAMMING FORMAT:

- The AIO is programmed either via SMS or via the USB port (newer versions)
- All messages must start and end with an * (asterisk)
- All telephone numbers must include the country code and exclude leading 0's and +'s, for example: 27821234567 is correct
- All numbers need to contain the international dialing code

- This will notify the specified number if input 1, 2, 3 or 4 changes in state
- 1 2 3 4 represents which input will be monitored for that telephone number.

- Notify a number when an input is triggered

Other Examples:

Monitor input 1 for number:
*1234 TEL ADDN 27821234567,1*
Monitor input 2 & 3 for number:
*1234 TEL ADDN 27821234567,2*
Monitor input 3 for number:
*1234 TEL ADDN 27821234567,3*

Combined example:
Monitor input 1 for number 1 and input 2 for number 2 in one SMS
*1234 TEL ADDN 27821234567,1*TEL ADDN 27821234567,2*

Please note the password is only included once at the beginning of the SMS

BEGIN PROGRAMMING

SMS TO BE SENT

(27 for South Africa) without a leading + or 0 eg: 27821234567 is correct

All numbers must end with a * (asterisk)

*1234 TEL ADDN 27821234567,1234*
*1234 TEL ADDN 27821234567,1234*

NOTE: note "C"

INPUT MONITORING

*1234 TEL ADDN 27821234567,1234*

- This will notify the specified number if input 1, 2, 3 or 4 changes in state

- Notify a number when an input is triggered

TELEPHONE NUMBER MANAGEMENT

Remove a number from telephone list
*1234 TEL DELN 27821234567*

Clear all telephone numbers (excluding status number)
*1234 TEL CLRN YES*

STATUS NUMBER

- The status number is a separate number to the input monitoring and missed call number list. The status number is only used for the following:
- To report in when the unit has been rebooted and is on air

Set the status number to 27821234567:
*1234 TEL MAST 27821234567*

Clear the status number
*1234 TEL MAST*

RELAY ACTIVATION

All Outputs may be set ON, OFF or PULSED

Activate output 1:
*1234 SET OUT1 ON*
Deactivate output 3:
*1234 SET OUT3 OFF*
Pulse output 4:
*1234 SET OUT4 PUL*

OUT1, OUT2, OUT3 and OUT4 relate to the relay to be activated

Combined example:
Activate Output 1 & 3 and pulse output 4 in one SMS (up to 160 characters in an SMS): please note the password is only included at the beginning
*1234 SET OUT1 ON*SET OUT3 ON*SET OUT4 PUL*