MAMI
Manufacturing And Minor Inventions

- 21 Hubert Mathew Road, Illiondale, 1609
- Tel +27 11 452 4737   • Fax +27 11 452 4738
- www.mami.co.za

GiSMo-G mini
GSM/GPRS Programmable Communicator

Description:

The GiSMo G mini is a programmable GSM GPRS/SMS communicator with 4 inputs and 4 outputs.

Once an input is triggered it will communicate the activation and restoral to the cloud server.
If the function is programmed, instead of sending a signal to the cloud, the respective phone numbers are called in sequence.

The inputs can be positive or negative trigger (see below for configuration)

This notification can be received on the Mobile APP: MissionControl Mobile (Android & iOS)

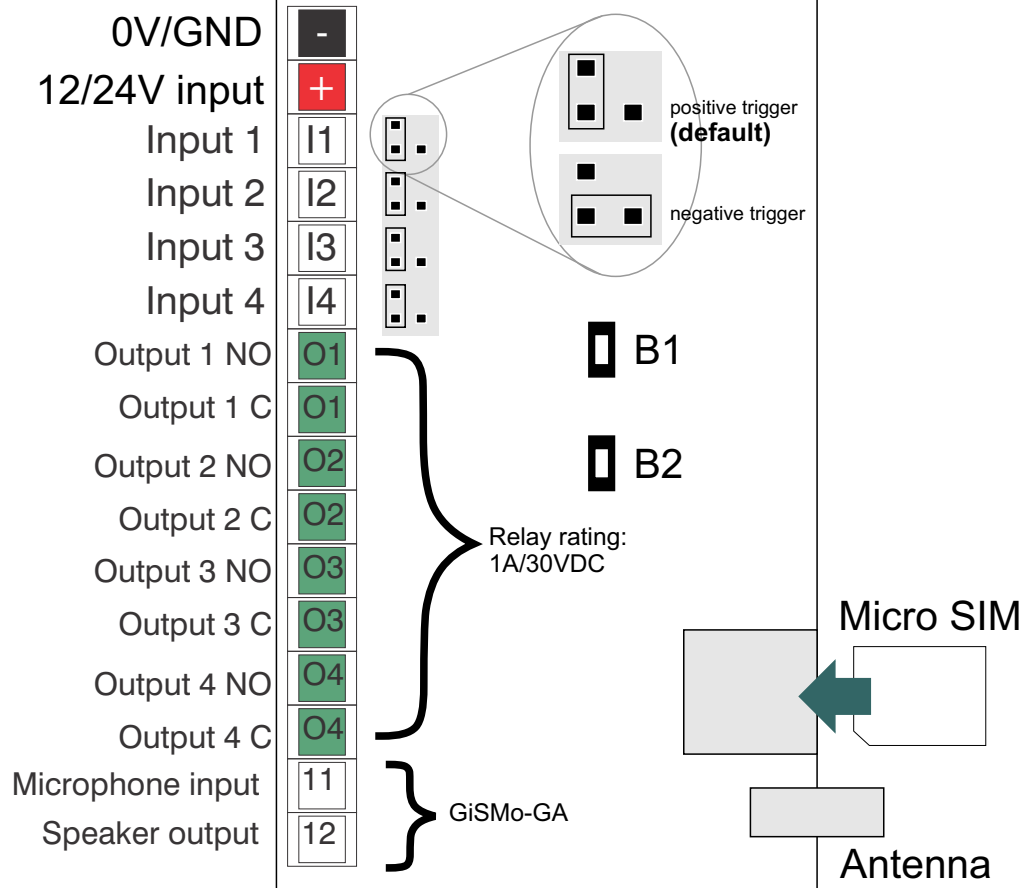The outputs are controlled via SMS as well as Missed Call.

Connection Diagram:

Note: Invert Inputs

When changing between positive and negative trigger inputs, set the jumpers as per the figure and without any external signal to the inputs (disconnect inputs) apply power to the GiSMo whilst holding down button B2 for 2 seconds.

This will invert the "HIGH/ALARM" and "LOW/RESTORE" message sent to the platform.

By default inputs are set to positive trigger

0V/GND	-
12/24V input	+
Input 1	I1
Input 2	I2
Input 3	I3
Input 4	I4
Output 1 NO	O1
Output 1 C	O1
Output 2 NO	O2
Output 2 C	O2
Output 3 NO	O3
Output 3 C	O3
Output 4 NO	O4
Output 4 C	O4
Microphone input	11
Speaker output	12

positive trigger **(default)**

negative trigger

B1

B2

Relay rating:
1A/30VDC

GiSMo-GA

Micro SIM

Antenna

M000197

Start up

The GiSMo must have a power supply that can handle up to 2A spikes form SMS and GPRS usage. It is therefore recommended to connect to a battery or good power supply.

Please make sure that the SIM card does not have a security PIN number. This can be disabled by putting the SIM card in a mobile phone and removing the PIN security request.

The GiSMo is operational when the green and blue LEDs flash slowly.

SMS Programming

· All SMS commands start with an asterisk '*' followed by a 4 digit password eg. *2222 where 2222 is the default password
· All commands are confirmed with a reply SMS to the person sending the message.
· All commands must be sent in UPPERCASE

Resetting

Hold down both buttons and apply power, continue to hold the buttons for 5 seconds and the green and red LEDs will begin to flash fast, release the buttons when the LEDs begin to flash slowly - the device password and system settings will be reset.
To additionally clear the number list hold down the buttons for a further 5 seconds while LEDs are flashing slowly and then release.

Input Monitoring (APP)   NB!

Choose whether to monitor the inputs via SMS or online APP. When an input is triggered the device will either send an SMS or push the message to the cloud depending if the GiSMo is in OFFLINE or ONLINE mode. (OFFLINE is default - SMS is sent)
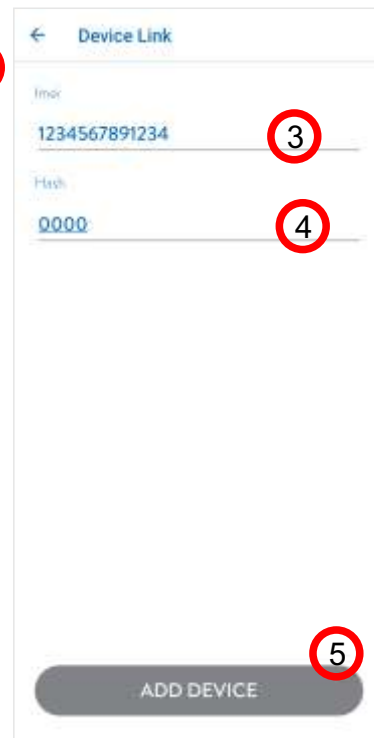
To monitor inputs via mobile phone app please send the SMS command *2222 ONLINE
This will enable the device to connect to the cloud and send notifications to the APP

Download the MissionControl Mobile App to receive notifications on the inputs status changes.

Scan the QR code to navigate to the download link for Android and Apple iOS

MissionControl Mobile

Step1: Download register and sign in to MissionControl
Step2: Click the "+" in the top right of the App once you have logged in
Step3: Enter in the IMEI of the device, found barcode stick on the GiSMo
Step4: Enter 0000 as the Hash
Step5: Click the "ADD DEVICE" button

Your notifications will displayed under the "ALERTS" Section of the App

M000197

MAMI
Manufacturing And Minor Inventions

Output Tiggering (SMS)

Each of the outputs may be turned ON, turned OFF, or pulsed. The format of the SMS is:

Turn ON or Turn OFF
*2222 SET[A]=[B]

[A] is 1,2,3 or 4 for inputs 1-4
[B] is 1 for ON and 0 for OFF

Examples
*2222 SET2=1   Turn on Relay 2
*2222 SET4=0   Turn off Relay 4
*2222 SET1=1   Turn on Relay 1

Pulse Output
*2222 PUL[A]

[A] is 1,2,3 or 4 for inputs 1-4

Examples
*2222 PUL1   Pulse Relay 1
*2222 PUL2   Pulse Relay 2
*2222 PUL4   Pulse Relay 4

Pulse Output during call

To trigger relay 1,2,3,4 press 1,2,3,4 respectively on your phone keypad during the phone call (intercom).

Number programming

Relay 1 and Relay 2 may be triggered by use of missed call. When a user's number is added to the missed call list. Calling the GiSMo from these numbers will optionally trigger relay1, relay 2.
If Auto answer is selected the call will be answered alternatively the call is hung up (see below for programming)

Voice Call (intercom)
Additionally in the case of intercom if the an input is triggered the GiSMo will perform a voice call instead of reporting the input

---

IMPORTANT!

All numbers need to contain the international dialing code (27 for South Africa) without a leading + or 0 eg: 27821234567 is correct

---

Adding a number (Input SMS, Intercom Dialing, Missed Call)

*2222 ADDN 27821234123,[Z],[XXXXX]

27821231234
This is the telephone number calling the unit

[Z] is the memory position use 0 to add to the next available position

[XXXXX] - These are the permission of the telephone number 1.
         more than one permission can be used at a time
1 - Dial/SMS this number when Input 1 is triggered
2 - Dial/SMS this number when Input 2 is triggered
3 - Dial/SMS this number when Input 3 is triggered
4 - Dial/SMS this number when Input 4 is triggered
A - Trigger Relay 1 when this number calls the unit **(missed call)**
B - Trigger Relay 2 when this number calls the unit **(missed call)**
C - Auto Answer the call
D - Dial the number (intercom)

SEE EXAMPLES BELOW

Examples:
*2222 ADDN 27821231234,0,1234A   - SMS this number when input 1,2,3,4 are triggered and trigger relay1 when this number missed-calls the GiSMo

*2222 ADDN 27821231234,0,2   - SMS this number when input 2 no missed-call triggering
*2222 ADDN 27821231234,0,A   - Trigger Relay1 when this number missed-calls the unit
*2222 ADDN 27821231234,0,B   - Trigger Relay2 when this number missed-calls the unit
*2222 ADDN 27821231234,0,3BCD   - Dial this number when input 3 is triggered, trigger relay2 when this number calls the GiSMo and autoanswer the call.

Please note the same input cannot be used to call as well as SMS, call will be taken as precedence.

Delete a number:
*2222 DELN 27821231234

Clear All numbers
*2222 CLRN

Note on calling multiple numbers:
More than one number can be programmed for the same input. Should the person not answer, or hangup, the second number will be called. The numbers are called in the order that they are added or in the order of the memory position (lowest first to highest)
Once the call is answered no further numbers will be called.

MAMI
Manufacturing And Minor Inventions

Input descriptions

The GiSMo will send different messages when the input is activated (HIGH) and restored (LOW) to its normal state. Each Input name can also be customised up to 16 characters.

Change Input 1-4 names:
Input names can be up to 16 characters in length

*2222 INPUT1 FRONT_DOOR
*2222 INPUT2 BACK_DOOR
*2222 INPUT3 BEAM
*2222 INPUT4 WINDOW

Change Input 1-4 HIGH:
HIGH message can be up to 8 characters in length

*2222 HIGH1 TRIGGERED
*2222 HIGH2 OPENED
*2222 HIGH3 TRIGGERED
*2222 HIGH4 BROKEN

Change Input 1-4 LOW:
LOW message can be up to 8 characters in length

*2222 LOW1 RESTORED
*2222 LOW2 CLOSED
*2222 LOW3 NORMAL
*2222 LOW4 FIXED

Note: Please use an underscore _ as a space

Automatic Missed Call Number adding

In order to save time and cost, the GiSMo can be put in a mode for 1 hours to automatically add any number calling it to the missed call number list. This mode eliminates the need to send an SMS to add every number.
Each number added to the automatic list will pulse relay1. Programming mode is indicated by both Green and Red leds flashing slowly.

*2222 PROG   - Turn on automatic programming mode
*2222 NOPROG   - Turn off automatic programming mode

System commands

Relay Pulse Time:
*2222 PTIME [A] [B] [C] [D]   - [A] [B] [C] [D] each is a two-digit number from 0-99 representing the pulse time in seconds. If 0 is used it is 0.5seconds (default). **PLEASE NOTE THE SPACE IN BETWEEN [A] [B] [C] [D]**
[A] - Relay 1   [B] - Relay 2   [C] - Relay 3   [D] - Relay 4

Example: *2222 PTIME 00 02 05 10   Relay1=0.5s   Relay2=2seconds   Relay3=5 seconds Relay4=10 seconds

Set hangup time:
*2222 HANG [A]   - [A] is the hangup time in seconds default 25

Airtime retrieval
The airtime response will be sent to the number requesting it.

*2222 NETW [XXXXX]   - [XXXX] is the USSD command to retrieve airtime such as *136#

Example: *2222 NETW *136#

Offline mode
*2222 OFFLINE - should we wish not to use airtime to communicate to cloud server the GiSMo can be put in an offline mode where airtime is only used for phone calls.

Online mode
*2222 ONLINE   (default is on) - in online mode the GiSMo will push any inputs triggered to cloud server to be received on the MissionControl Mobile App

Online mode APN
*2222 SETTINGS apnname   - (default is internet)

Online mode MQTT server, user, password
Please contact us for 3rd party integration for monitoring and control.

MAMI
Manufacturing And Minor Inventions