

µGate2 - Quick Guide

Thank you for choosing the GSM Communicator “µGATE2” – the complete tool for your security, automation, and monitoring solutions. The GSM Communicator µGATE2 has been designed to provide a superior level and control of any personal or real property.

The GSM Communicator µGATE2 is an interactive communication/automation device offering a simple and flexible method of transmitting critical data via the GSM network. The GSM Communicator is equipped with two input ports which can be directly connected to any sensor (PIR, smoke, fire, temperature, level control, contacts, etc), wireless receiver to extend the capabilities to include a host of wireless devices such as Medical pendant, panic button, perimeter beam etc and any control panel. On activation of those inputs a text message (TXT) or call is send out to pre-programmed mobile phones. The GSM Communicator is also equipped with two outputs. These outputs can be triggered remotely via TXT or call as well as by the system itself, depending custom configurations, thus making the GSM Communicator µGATE2 an ideal tool for any automation application.

The GSM communicator integrates hardwired alarm and monitoring technology with protected GSM communication and affords the ability to control any application via text message (TXT) or call, a form of communication that is fast, encrypted and familiar. The GSM communicator offers a complete duplex solution offering interactive report status and activity as well as accepting inbound command

µGATE2 is almost fully compatible with its predecessor µGATE, we also added some very useful new functions.

Specifications:

Power supply voltage:	12VDC (min 7VDC – max 15VDC)
Current consumption:	min 35mA – max 500mA (during GSM transmitting phase)
Operating bands:	GSM/GPRS 900 / 1800 / 1900 MHz
High frequency output:	2W @ 900MHz, 1W @ GSM 1800/1900MHz
Working temperature:	-20°C up to +50°C
Input active level:	GND
Output active level:	GND, for connecting relay max 12V/100mA
Audio input:	2.5mm connector K3 2.2kΩ; 1.2 – 2V
Audio output:	32Ω; 1.1V
Dimensions:	43(W) x 43(D) x 15(H) mm

Possibility of easy configuration via PC software and USB converter

Basic Features

- 2 inputs for sensor or control panel connection with option to configure for GND connection, GND disconnection or changes in status.
- Allocation of three mobile numbers per input for TXT or call alerts. Mobile numbers stored on processor not SIM card
- Input alert in active or deactivate status (continuous monitoring irrespective of status).
- Input delay timer option.(entry and exit time)
- Input Signal Recognition
- Low credit warning TXT (Only with VODAFONE NZ/AU)
- 2 outputs with multiple configuration options. Activation via TXT, call with timer option. Option to connect high power relays.
- Custom naming facility of inputs, outputs, device and commands
- Programmable via simple TXT messaging (mobile phone or internet texting)
- Audio input and output (with volume control)
- Status reporting of critical system parameters on demand or in pre set time and day.
- Service number for special diagnostic warning (unauthorized excess, system recovery, power supply voltage, overheating etc.)
- Control supply voltage - adjustable TXT texts and upper and lower voltage limits with a resolution of 1V
- Sophisticated processor and system (self test) control
- **µGATE2 can be easily and quickly configured using the PC program and a USB converter!** The program allows you to perform all setting, save and restore your setting from file. When installing also appreciate the function of determining the actual strength of GSM signal and supply voltage. USB data cable sold separately.

Special optional mode:

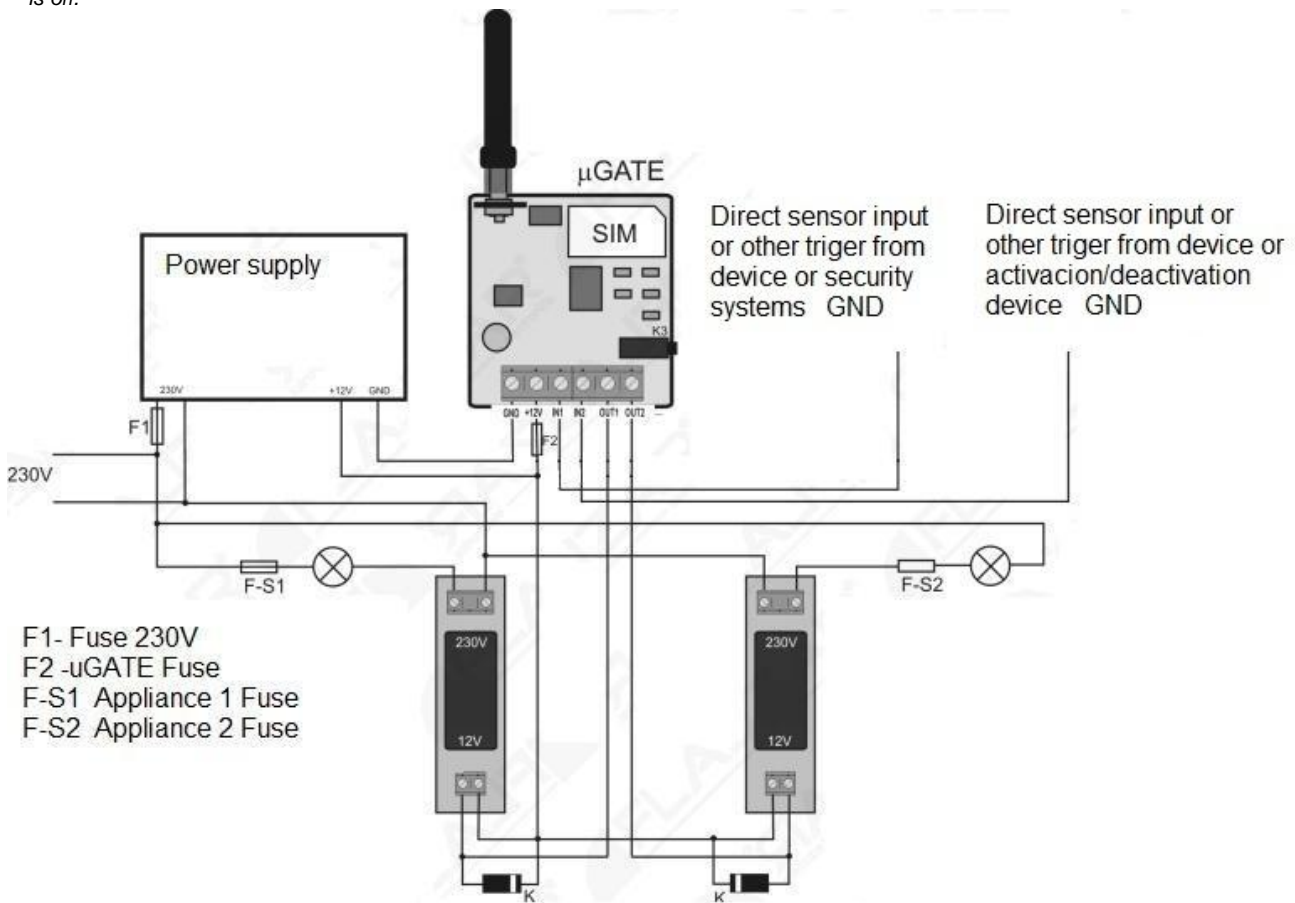
- Each input can send 2 different TXT for remote status equipments
- Input 1 option for entry and exit time
- Input 2 can be use for arming/disarming the communicator from remote device
- Out 1 can be use for external siren
- Out 1 or 2 can be use for external system status LED signalization
- Out 2 can be use for GSM outage signalization
- Timer option for outputs 1 to 99 sec



Installation

The GSM Communicator μ GATE series is user friendly and easy to set up. The installation of the unit should be carried out by a professional person (i.e. electrician, alarm technician, auto electrician etc.).

Furthermore, it is recommended operating the unit with the 12VDC (7 – 15 VDC) backup power supply unit to insure operation if mains power is off.



Connect the aerial to the SMA connector. If the GSM signal is not sufficient (below 40%), the use of an external aerial is recommended.

Connect sensors to the input terminal IN1 / IN2.

If the output port R1 and R2 is used to switch a relay, a diode has to be connected on the relay coil as illustrated in the electrical diagram to protect the GSM Communicator.

If the GSM Communicator μ Gate is installed without its factory enclosure, the use of plastic stays is essential to protect the unit against short circuiting.

New SIM Card Activation

- 1) It is recommended to only use new SIM cards with no data stored. The unit has been tested and approved with SIM cards provided by Vodafone NZ.
- 2) Place the new SIM card in an existing mobile phone.
- 3) Make a call to 777 and follow the voice prompts to set up your PIN number to activate the service and SIM, then it's ready to use.
- 4) **We recommended register new SIM on Vodafone online to manage SIM quick and easy any time.** Registration process is quite quick. Click on the Register for my account tab from the www.vodafone.co.nz website and to follow the prompts and fill in the required details. Wait to receive a validation TXT to complete the registration.
- 5) Insert the SIM card into the GSM Communicator.

μ Gate Communicator Activation

- 1) After the GSM Communicator is connected to the power supply and switched on, the unit will undergo a self-test cycle. While in this cycle, the three LEDs (power, status, and alarm) will be continuously on. This process will take approximately 10 seconds to one minute, depending on the SIM card type and information stored. (It is recommended to only use new SIM cards with no data stored).
- 2) After the self-test cycle, the unit will attempt to connect to the Vodafone GSM network. Once successfully connected to the network, all LEDs will be switched off except LED 1 (green) which will start flashing continuously, and LED 2 (yellow) permanently on. Indicating that the unit is ready for programming.
- 3) Send TXT report command to the unit **1234 stat?** If the command was correct, you will receive a TXT confirmation containing GSM signal strength. If the GSM signal is not sufficient (below 40%), the move unit to better GSM signal area or use of an external aerial.

Never insert or remove the SIM card while the unit is switched on (power on) as the SIM card and/or GSM module could be permanently damaged.

LED statuses:

Green LED POWER:	-Flashing slow: (1sec. interval): all is right - Flashing fast: No GSM signal - Permanently on: Equipment out of service,(eg, after reset or failure state) - Pulse flashing: (1 sec. rapid flashing): Unit receives TXT command
Yellow LED STATUS:	- Permanently on: System armed/active - Permanently off: System disarmed/not active (except 24 hrs loop – see SETP1) - Continuous flashing: Delay timer when armed. (Exit time)
Red LED ALARM:	- Permanently on: Inputs activated. Unit sending TXT or calling - Flashing fast: Delay timer when armed after input 1is triggered.(entry time) - Flashing slow (1sec. interval): Unit tries to TXT or call (NO GSM signal). - Blitz flashing: Audio tapping - Pulse flashing: flashing rhythm of incoming ringing call from authorized number
Orange LED R1:	- Permanently on: Output port R1 ON. - Permanently off: Output port R1 OFF - Flashing fast: Output port R1 On Timer
Orange LED R2:	- Permanently on: Output port R2 ON. - Permanently off: Output port R2 OFF - Flashing fast: Output port R2 ON Timer

Allocating phone numbers and TXT to individual inputs

Input No1	Input No2
TXT1	TXT2
NUMBER1	NUMBER2
NUMBER1A	NUMBER2A
NUMBER1B	NUMBER2B
Service number NUMBERS	

The GSM Communicator is programmed via TXT message from any mobile phone from any GSM network or via internet texting facilities. All commands and setting must always start with a four digit security PIN, pre-set by the manufacturer to 1234. It is recommended to change this PIN (refer to "Changing the Security Code"). The PIN is followed by a space and the appropriate TXT command. Commands must be written only in lower case or capital letters not in combination. It is necessary to adhere to correct spacing (PIN – space – command – space – indication)

- PIN space command space indication -

Examples: 1234 arm or 1234 ARM (arming the unit)

All commands are confirmed and acknowledged by the GSM Communicator with a reply TXT confirmation. Even if the command was incorrect the unit will send an error message.

The following example we will use a dummy mobile number which is +6421123456 in order to illustrate the programming.

1) Storing time & date
The GSM Communicator has a built in clock to indicate the time when messages are sent. This is very important when an alert message is sent as the message will include the time and date when the specific event occurred, triggering an alert.
To set up the actual time and date the command is: (example for 12 th April 2011, 3:30pm) 1234 TIME 12.04.2011 15:30
If the command was correct, you will receive the following TXT confirmation: µGATE2 Time is set up (Day and Time)
If the command was incorrect, you will receive TXT message: µGATE2: Error

2) Storing phone numbers which would be inform when the inputs is triggered
The GSM Communicator is able to contact up to three different mobile numbers per input triggered via TXT or call. For input 1, numbers 1,1a,1b and for input 2, numbers 2,2a,2b
To store the above mobile number for input 1, the command is: 1234 NUMBER1 +6421123456
If the number was stored correctly, you will receive the TXT confirmation: µGATE2: Save ok
To find out what mobile number is stored in which position (example number 1), the command is: 1234 NUMBER1?
If the command was correct, you will receive the TXT confirmation: µGATE2: In position 1 save number +6421123456
To delete a stored number individually (example number 1), the command is: 1234 NUMBER1 DELETE
If the command was correct, you will receive the TXT confirmation: µGATE2: Delete OK
If the command was incorrect, you will receive TXT message: µGATE2: Error

Store the rest of the number in the same way.

Note: A new number will overwrite old number

Note2: If you will not receive the TXT confirmation (in some reason TXT lost in network) send the TXT command again.

With the above information stored, the GSM Communicator is ready for operation. All other settings are programmed by the manufacturer and can be viewed under Set default values(page7). Inputs are named *INPUT 1-2* and they reaction is based on any status change. Alert type is calling.

However, further custom settings can be done and are described below.

3) Naming of Input Port	
Each input can be named in order to identify the specific item, location or application. Each TXT has to be programmed with the corresponding input. TXT1 for first input, TXT2 for second input. Each TXT can be made of max 16 characters including spaces.	
To store a name (entrance) for input 1, the command is:	1234 TXT1 ENTRANCE
If the name was stored correctly,you will receive the TXT confirmation: µGATE2 Save ok	
If the command was incorrect, you will receive TXT message: µGATE2: Error	

Note: Input 2 can be programmed in the same way

4) Naming the GSM Communicator	
The GSM Communicator is able to be named in order to identify the device which it is used for. This is the device identification. The name can be made of max 16 characters including spaces	
To program an equipment name (HOME), the command is:	1234 NAME HOME
If the name was stored correctly,you will receive the TXT confirmation: µGATE2 Save ok	
If the command was incorrect, you will receive TXT message: µGATE2: Error	

5) Naming of Output port R1	
Each output port can be named in order to identify what will be switched when it is activated. Each output name can be made of max 16 characters including spaces.	
To store a name (heater) for output port R1, the command is:	1234 NREL1 HEATER
If the name was stored correctly,you will receive the TXT confirmation: µGATE2 Save ok	
If the command was incorrect, you receive TXT message: µGATE2: Error	

Note: Output port R2 can be programmed in the same way. Use command **NREL2** to save the name for output R2

6) Switching output port R1	
Output port R1 can be activated or deactivated via TXT or call. The calling option is only available with mobile numbers 1 and 1a (refer to table under section "Storing Mobile Numbers") and in conjunction of settings under "Calling Characteristics SETP2 position 1 option 2".	
The example here is for output port R1. These control commands are factory pre set, you can customize below. (table 7)	
To switch the output port R1 on via TXT, the command is:	1234 R1ON
To switch the output port R1 off via TXT, the command is:	1234 R1OFF
<i>This shortcut option is only available for mobile numbers stored under position 1and 1a. The output port can be control without PIN via TXT.</i>	
To switch the output port R1 on via TXT, the command is:	#ARM
To switch the output port R1 off via TXT, the command is:	#DISARM
If these commands were correct, you will receive the TXT confirmation	
If the command was incorrect, you receive TXT message: µGATE2: Error	

Note: Use similar command **R2ON**, **R2OFF** or **#R2ON**, **#R2OFF** to operate output port R2

7) Control Commands of Output port R1	
Here you can create custom control commands to switch ON and OFF outputs ports. The example here is for output port R1. Can be made of min 4 and max 16 characters including spaces.	
To store the command to switch heater on for output R1, the command is:	1234 ONR1 HEATER ON
To store the command to switch heater off for output R1, the command is:	1234 OFFR1 HEATER OFF
If the custom command was stored correctly, you will receive the TXT confirmation: µGATE2 Save ok	
If the command was incorrect, you receive TXT message: µGATE2: Error	

Note: Use similar command **ONR2** or **OFFR2** to store switching command for output port R2

8) Output Port R1Timer	
The duration of activation of output port R1 (output switched on for a preset time) can be custom set to suit various applications. This option is only available in conjunction with settings of SETP2 position D option 2 or 3. That can be set in the range of 01 to 99 seconds.	
In order to customise the desired time for output port R1, for 15 seconds the command is:	1234 R1TIME 15
If the command was correct, you will receive the TXT confirmation: µGATE2: Timer set on 15 sec	
If the command was incorrect, you receive TXT message: µGATE2: Error	

Note: Use similar command **R2TIME** to set the timer for output port R2.

Note 2: Timer must be enabled in **SETP2** position D for output R1 and position E for output R2

9) Arming and Disarming the inputs	
The µGATE can be activated (arm) or deactivated (disarm) via TXT or call. The calling option is only available with mobile numbers 1and 1a and in conjunction of settings under SETP2 position I option 1 (page 8)	
To arm the unit via TXT, the command is:	1234 ARM
To arm the unit via TXT, the command is:	1234 DISARM
<i>This shortcut option is only available for mobile numbers stored under position 1and 1a. The µGATE can be activated (arm) or deactivated (disarm) without PIN via TXT.</i>	
To arm the unit, the command is:	#ARM
To arm the unit, the command is:	#DISARM
If these commands were correct, you will receive confirmation depending settings under SETP2 position J2. If the TXT confirmation is selected, you will receive the TXT confirmation: µGATE2: arm or µGATE2: disarm If the calling confirmation is selected SETP2 position J1, you will receive a confirmation call (1-3 rings) when the unit is armed but no confirmation call when it is disarmed.	
If the command was incorrect, you receive TXT message: µGATE: Error	
Note: If the any input is in 24 hours cycle(SETP1 position G and H option 1 page8) the input is constantly evaluated irrespective to command control ARM or DISARM	
Note2: Status device is signaled by yellow LED	

10) Changing the Security Code/PIN	
The GSM Communicator has a security PIN pre-set by the manufacturer to 1234. This PIN is used when programming and communicating with the unit. This PIN enables anybody to communicate with the unit from any mobile phone from any GSM network world wide or via internet texting facilities. It is recommended to change this PIN to maintain high security level. Do not disclose this PIN to anybody. In the event that the PIN is misplaced or lost, the GSM Communicator has to be reset. Please refer to section "Resetting to Default Values"(page 7).	
To change the PIN from 1234 to 5532, the command is:	1234 NPIN 5532
If the command was correct, you will receive the TXT confirmation: µGATE: Save OK	
If the command was incorrect, you receive TXT message: µGATE: Error	

10) Status Report	
Report of actual device status (armed/disarmed, output ports active/deactive, GSM signal strength, power supply voltage, procesor temperature and input activation history).	
Status report of system parameters can be obtained via the TXT command	1234 STAT?
This shortcut option is only available for mobile numbers stored under position 1and 1a. Status report of system parameters can be obtained The without PIN via TXT. via the TXT command	
	#STAT?
If the command was correct, you will receive a TXT confirmation containing the the device status.	
If the command was incorrect, you receive TXT message: µGATE: Error	

11) Automatic Status Report	
Status report can be obtained at regular intervals. You must specify the interval in days (1-99) and hour (0-23), when report will be sent. E.g. 7 / 14 means that the status will be sent 1x per week in 2 pm. Minimum interval: daily, maximum 1 per 99 days.	
To switch this function on, (example for every day at 10: am) the command is:	1234 AUTS 1/10
To switch this function off, the command is:	1234 AUTS OFF
If the command was correct, you will receive a TXT confirmation.	
If the command was incorrect, you receive TXT message: µGATE: Error	

WARNING: Automatic status txt receive only dedicated mobile number the service number ("numbers") which can be different to all the numbers stored under "input ports" (see page 6 for instruction about the service number set up)

12) Prepay SIM Balance Report	
This function allows the operator to find out VODAFONE PREPAY SIM balance.	
Balance can be obtained via the following TXT command:	1234 CREDIT?
If the command was correct, you will receive a TXT confirmation containing balance – for example: uGate: Credit is: \$2	
If the command was incorrect, you receive TXT message: µGATE: Error	

Note: These functions only available with a Vodafone pre-pay SIM card.

Note2: The confirmation report of prepay balance can take one minute

13) Automatic low balance prepay SIM warning	
The µGATE is able to send automatic TXT to alert you to top up your VODAFONE prepay SIM card to reduce the risk of not receiving alerts from your GSM Communicator due to having no credit on the SIM card.	
Set up low warning TXT function for \$2 use the following command:	1234 MINC 2
If the command was correct, you will receive a TXT confirmation: uGate: Min. credit is set up \$2	
To switch off this function use the following command:	1234 MINC 0
If the command was incorrect, you receive TXT message: µGATE: Error	

WARNING: These txt receive only dedicated mobile number the service number (“numbers”) which can be different to all the numbers stored under “input ports” (see page 6 for instruction about the service number set up)

Note: These functions only available with a Vodafone pre-pay SIM card.

14) Report of Mobile Numbers Stored	
To find out the list of all mobile numbers (including the service number) stored in GSM Communicator processor not on the SIM, the command is:	
	1234 LISTN
If the command was correct, you will receive a TXT confirmation containing all mobile numbers stored under the corresponding input ports as well as the service number.	
If the command was incorrect, you receive TXT message: µGATE: Error	

15) Input Status Report	
This function allows the operator to identify if an input is connected to GND	
The status can be obtained via the following TXT command:	1234 INPUT?
If the command was correct, you will receive a TXT confirmation containing the input status – for example: uGate: input status: input1 off (N), input 2 on (L) L= LIVE input is connected to GND, N= NEUTRAL input is not connected to GND.	
If the command was incorrect, you receive TXT message: µGATE: Error	

16) Input Signal Recognition	
If the µGATE is used as an “add on” unit to an existing car alarm or control panel and if this control panel has only one output channel with a status indication of - pulsing signal (indication of system ok), and - permanent GND signal (indication of system malfunction), the GSM Communicator can be programmed to recognise a malfunction if the signal stays permanently on for a specific period i.e. from 100ms – 9.9 seconds.	
In order to set the time recognition for input 1 (example 500ms), use the following command:	1234 DELAY INPUT1 0.5
To set the time recognition for input 2 (example 7.5 seconds), use the following command:	1234 DELAY INPUT2 7.5
If the command was correct, you will receive the TXT confirmation: µGATE: Save OK	
If the command was incorrect, you receive TXT message: µGATE: Error	

Note: The factory default setting is 200ms which is used for most common sensors to be recognised.

17) Adjust the volume of audio input and output from 0 to 9	
This function is used to adjust the volume of audio input and output .NASTA AB, where A is the microphone volume and where B is the output volume	
To set the volume for maximum use the following command:	1234 SETPA 99
If the command was correct, you will receive a TXT confirmation.	
If the command was incorrect, you receive TXT message: µGATE: Error	

Resetting to Default Values:

If the operator misplaces or forgets the four digit security PIN, a complete reset of the unit has to be performed. The GSM Communicator will lose all custom settings and all stored mobile numbers. Resetting the unit should only be done by an authorised person. Please note, the GSM Communicator is highly sensitive for static loading. It is recommended to use soldering equipment with adjustable temperature control and a grounded antistatic tip to create the bridging of jumper points J1.

Procedure:

1. Disconnect the GSM Communicator from power supply
2. Remove the SIM card
3. Bridge jumper points J1 (situated at the right hand site of the SIM card holder)
4. Reconnect the GSM Communicator to the power supply
5. All LED s will switch on; after approximately 10 seconds LED s will start flashing in a rotating modulus.. Thereafter all LED s will switch off and the green LED will switch on permanently. This will indicate that the unit has reset all data to the original factory settings.
6. Disconnect the GSM Communicator from power supply and remove bridge from jumper points J1 Insert SIM card, reconnect the power supply
7. Unit is ready for reprogramming

Input Characteristics SETP1

All input characteristics such as input switching, input communication, delay timer and input status can be custom set for each individual application. The table below illustrates the versatility of characteristics available for programming.

A	B	C	D	E	F	G	H
3	3	1	1	0	0	0	0

→	Input 2: 0 = active only when armed 1 = active 24/7
→	Input 1: 0 = active only when armed 1 = active 24/7
→	Entry delay: 0 = off 1 – 9 = delay time 10 – 90 seconds
→	Exit delay: 0 = off 1 – 9 = delay time 10 – 90 seconds
→	Input 2: 1 = Calling 2 = Texting 3 = Texting & Calling
→	Input 1: 1 = Calling 2 = Texting 3 = Texting & Calling
→	Input 2: 0 = off 1 = GDN connection 2 = GND disconnected 3 = Any status change 4 = Input used for remote control devises to arm and disarm the unit. Refer to SETP2 position F for further setting
→	Input 1: 0 = off 1 = GND connection 2 = GND disconnected 3 = Any status change

The example shown in the table above (SETP1 33110000) is the factory setting. In order to customise these settings, use the following command:

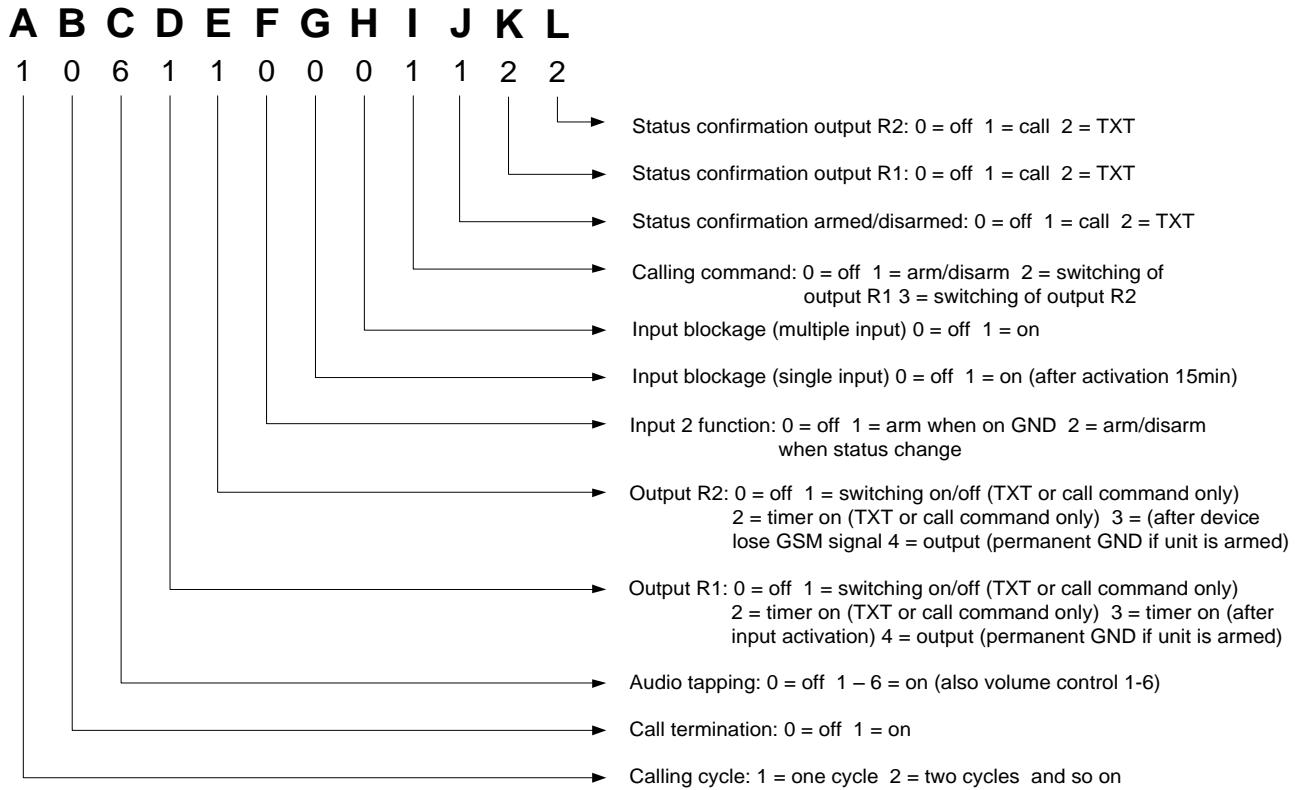
- 1234 setp1 _____ (any combination as described above)

If the command was correct, you will receive the following TXT confirmation:

- μGATE: save ok

System Characteristics SETP2

All system characteristics such as calling, calling cycle, audio tapping, output, control input, input blockage, system status confirmation and output status confirmation can be custom set for each individual application. The table below illustrates the versatility of characteristic available for programming



The example shown in the table above (SETP2 106110001122) is the factory setting. In order to customise these settings, use the following command:

- 1234 setp2 _____ (any combination as described above)

If the command was correct, you will receive the following TXT confirmation:

- μGATE: save ok

Special functions

1) Special Input Function for remote status equipments SETPP

Each input status change (from passive to active back to passive) can trigger separate alert messages. If for example input 1 triggers from passive to active, the status change from being a N/O contact to N/C contact will trigger the alert message "TXT1B". If input 1 triggers again, the status change from N/C contact to N/O contact it will trigger the alert message "TXT1". These alert messages can be custom named (for example gate open -gate close, high level –low level).

The same configuration applies to input 2 with the corresponding alert messages "TXT2B - TXT2". In this way critical parameters in different applications can be monitored remotely.

Output port R1 can also be activated under this option in conjunction with settings under System Characteristics SETP2 position D option 3 (page 8) and settings under Output Timer R1TIME (page 4 table 6).

In order to customise what input will trigger an alert message, use the following command:

1234 SETPP AB

Where "A" is set up for first input, "B" for second input (0=OFF, 1=ON). Example: allowing function only on input1: **1234 SETPP 10**

For this function is necessary save other corresponding TXT: example for input 1:

1234 TXT1 Gate open (max. 16 characters including spaces)

1234 TXT1B Gate close (max. 16 characters including spaces)

For input 2 : **1234 TXT2 text (max. 16 characters including spaces)**

1234 TXT2B text (max. 16 characters including spaces)

2) Finding approximate location(Tracking)	
Thanks to VODAFONE NZ the GSM Communicator μ GATE has the completely new function to be used as a tracking system within the GSM network. Via the position of base transceiver stations also called cell sites (BTS), the unit is able to identify its location in relation to the proximity of a BTS thus affording the option to locate anything anywhere within the GSM/GPRS network. This feature is still in trial stage and we are happy to receive any suggestion or complaints to improve this function.	
To find out the approximate location the command is:	1234 TRACKING?
You will receive a confirmation containing: ID CELL , SIGNAL, COUNTRY ID, OPERATOR ID.	
Go to website www.pacificgsm.co.nz write the ID CELL code in to search window on the right top corner and click go.	

Audio tapping

This facility provides the operator with an audio surveillance option. Any noise around the GSM Communicator can be picked up. This option is only available with mobile numbers 1 and 1a (refer to table page 3) and in conjunction of settings under SETP2 position C (page 8). The unit has to receive a minimum of five ringing tones in order to switch the audio surveillance on. The maximum audio surveillance time is one minute as the unit is not a listening device. Actual audio tapping of surveillance area is signalized by short flashing red LED.

Arming and Disarming the GSM Communicator via call

The GSM Communicator can be activated (arm) or deactivated (disarm) via call. The calling option is only available with mobile numbers 1 and 1a (refer to table page 3) and in conjunction of settings under SETP2 position I option 1 (page 8). When calling the unit, to let it ring for max of 4 ringing tones. If the μ GATE receives more than 5 ringing tones, and audio tapping function is ON it will switch on the audio tapping function, if the audio tapping function is OFF the μ GATE will automatically reject the call after first ring. In 5 seconds the μ GATE status will change and confirmation is carried out according to SEPT2 set up on position J. if set up is 0= the confirmation is nor carried out. 1= the activation is confirmed by call back function (only activation). If the set up is 2= the activation and deactivation is confirmed by TXT.

Switching ON and OFF output ports via call

The output ports can be switched ON or OFF via call. The calling option is only available with mobile numbers 1 and 1a (refer to table page 3) and in conjunction of settings under SETP2 position I option 2 or 3 (page 8). When calling the unit, to let it ring for max of 4 ringing tones. If the μ GATE receives more than 5 ringing tones, and audio tapping function is ON it will switch on the audio tapping function, if the audio tapping function is OFF the μ GATE will automatically reject the call after first ring. In 5 seconds the selected output status will change (ON/OFF) and confirmation is carried out according to SEPT2 set up on position K or . if set up is 0= the confirmation is nor carried out. 1= the activation is confirmed by call back function (only activation). If the set up is 2= the activation and deactivation is confirmed by TXT.

Exit and enter time

Exiting time (set up on SETP1 position E) (page 8). It's signalized by yellow LED flashing. Range set up 10 – 90 seconds. Entering time only for Input No. 1 (set up on SETP1 position F). It's signalized by red LED flashing. Range set up 10 – 90 seconds.

Guidelines for Safe and Efficient Use

Please read this information before using your GSM Communicator. These instructions are intended for your safety. Please follow these guidelines. If the product has been subject to any of the conditions listed below or you have any doubt as to its proper function, make sure you have the product checked by a certified service partner before using it. Failure to do so might entail a risk of product malfunction or even a potential hazard to your health.

Recommendations for Safe Use of Product

- Always treat your product with care and keep it in a clean and dust-free place.
- Do not expose your product to liquid or moisture or humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not drop, throw or try to bend your product.
- Do not attempt to disassemble or modify your product. Only authorised personnel should perform service.
- Do not use your product in an area where a potentially explosive atmosphere exists.

Antenna

The GSM Communicator has an antenna. Use of antenna devices not marketed by Pacific GSM Limited specifically for this model could damage your GSM Communicator, reduce performance, and produce SAR levels above the established limits (see below).

Radio Frequency (RF) Exposure and Specific Absorption Rate (SAR)

The GSM Communicator is a low-power radio transmitter and receiver. When it is turned on, it emits low levels of radio frequency energy (also known as radio waves or radio frequency fields).

Governments around the world have adopted comprehensive international safety guidelines, developed by scientific organizations, through periodic and thorough evaluation of scientific studies. These guidelines establish permitted levels of radio wave exposure for the general population. The levels include a safety margin designed to assure the safety of all persons, regardless of age and health, and to account for any variations in measurements. Specific Absorption Rate (SAR) is the unit of measurement for the amount of radio frequency energy absorbed by the body. The SAR value is determined at the highest certified power level in laboratory conditions, but the actual SAR level of the GSM Communicator while it is operating can be well below this value. This is because the GSM Communicator is designed to use the minimum power required to reach the network. Variations in SAR below the radio frequency exposure guidelines do not mean that there are variations in safety. While there may be differences in SAR levels among GSM Communicators, all Pacific GSM communicator models are designed to meet radio frequency exposure guidelines.

Disposal of Old Electrical and Electronic Equipment

This symbol indicates that all electrical and electronic equipment included shall not be treated as household waste. Instead it shall be left at the appropriate collection point for recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



End User Licence Agreement

This wireless device, including without limitation any media delivered with the device, ("Device") contains software owned by Pacific GSM Limited and its third party suppliers and licensors ("Software"). As user of this Device, Pacific GSM Limited grants you a non-exclusive, non-transferable, non-assignable license to use the Software solely in conjunction with the Device on which it is installed and/or delivered with. Nothing herein shall be construed as a sale of the Software to a user of this Device. You shall not reproduce, modify, distribute, reverse engineer, decompile, otherwise alter or use any other means to discover the source code of the Software or any component of the Software. For avoidance of doubt, you are at all times entitled to transfer all rights and obligations to the Software to a third party, solely together with the Device with which you received the Software, provided always that such third party agrees in writing to be bound by these rules. You are granted this license for a term of the useful life of this Device. You can terminate this license by transferring all your rights to the Device on which you have received the Software to a third party in writing. If you fail to comply with any of the terms and conditions set out in this license, it will terminate with immediate effect.

Disclaimer

This device is designed for indoor use only unless protected in appropriate enclosure. The GSM Communicator is reliant on adequate GSM coverage. In the event of inadequate or no GSM coverage, Pacific GSM Limited can not be held liable for any damages. The GSM Communicator was tested with SIM cards provided by "Vodafone New Zealand" and "Vodafone Australia". Pacific GSM Limited can not be held liable for any malfunction with the use of other SIM cards. The GSM Communicator is only for the use within the borders of NEW ZEALAND.

Only use auxiliary equipment tested and approved by Pacific GSM Limited. Do not attempt to take apart, open, service, or modify the hardware device. Doing so could present the risk of electric shock or other hazard. Any evidence of any attempt to open and/or modify the device, including peeling punching, or removal of any labels, will void the Limited Warranty.

Never pass security code or the mobile number of the GSM Communicator to an unauthorised third party.

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Warranty

Subject to the condition of this Limited Warranty, Pacific GSM Limited warrants this product to be free from defects in design, material and workmanship at the time of its original purchase by a customer. This Limited Warranty will last for a period of two year as from the original day of purchase and for a period of one year for all original accessories (such as microphone, GSM aerial).

The warranty does not cover any damages caused due incorrect installation and the use of any auxiliary devices not approved by Pacific GSM Limited.

Important recommendations

Connect only good quality sensors and regularly monitor device status.

Client Details

Name			
Address			
Contact Number	Home		Mob
Installation Date		Installed By	

SIM Card Details

Contact Number	
Security PIN	
Online ID	
Password	
Date Registered	

µGate

IMEI	
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Security PIN	
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Min Credit limit	
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Input Names

Input 1	
Input 2	

Output Names

Output 1	
Output 2	

Output Control Commands

Output 1	
Output 2	

Input Characteristics SETP1

A	B	C	D	E	F	G	H

System Characteristics SETP2

A	B	C	D	E	F	G	H	I	J	K	L

Output Timer R1Time

Timer Setting

Output Timer R2Time

Timer Setting

Mobile Numbers Stored

Input	Number	Stored Mobile Numbers	Name
1	Number1		
1	Number1a		
1	Number1b		
2	Number2		
2	Number2a		
2	Number2b		

service	Numbers		
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System Diagnostics SETPS

A	B	C	D

System Status after Reboot SETPV

A	B	C

Output Port R1 Characteristics SETPR

A	B

Special Input Characteristics SETPP

A	B

All commands and setting must always start with a four digit security PIN, pre-set by the manufacturer to 1234. It is recommended to change this PIN. The PIN is followed by a space and the appropriate TXT command. Commands must be written only in lower case or capital letters not in combination. It is necessary to adhere to correct spacing (PIN – space – command)

- PIN space command-

Examples: **1234 arm** or **1234 ARM** (arming the unit)

All commands are confirmed and acknowledged by the GSM Communicator with a reply TXT confirmation. Even if the command was incorrect the unit will send an error message.

Commands	Function	Page
ARM	Arm the communicator	4
DISARM	Disarm the communicator	4
R1ON	Switching output port R1 ON	6
R1OFF	Switching output port R1 OFF	6
NUMBER1 02.....	Store the first mobile number for input 1	3
NUMBERS 02.....	Store the service mobile number	6
NUMBER2A delete	Delete a stored number under input2 position 2a	3
CLEAR ALL NUMBERS	Delete all stored numbers	6
LISTN	Find out the list of all mobile numbers stored	6
NUMBER2A?	Find out what mobile number is stored in which position	3
CREDIT?	Find out current VODAFONE PREPAY SIM balance.	5
STAT?	Status report of actual system parameters	5
DELETE HIST	Input activation history	7
INPUT?	Identify if an input is connected to GND	5
HELP	Find out current switching commands and basic commands	6
NAME (text)	Program an equipment name (max 16 characters)	4
TXT1 (text)	Store a name for input 1 (max 16 characters)	4
NREL1 (text)	Store a name for output 1 (max 16 characters)	4
ONR1 (text)	Store the command to switch output R1ON	4
OFFR1 (text)	Store the command to switch output R1OFF	4
NPIN	Change the PIN	5
MINC ..	Set up low credit warning TXT function	5
RESTART UGATE	Restart the unit	7

Conformity:

The equipment is in accordance with the following regulations and standards:

EMC: EN 301 489- 7 V1.2.1
 EN 50136- 2- 3
 EN 50136- 1- 1 A
 EN 50131- 1/Z1
 EN 50130- 5
 Radio parameter: EN 301 511 V9.0.2
 Safety: EN 60950- 1

New Zealand Supplier Code Number (SCN): Z1262



Technical Support

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