µGATE
Owner’s manual

Introduction

Thank you for choosing the Pacific GSM Communicator. It has been designed as the complete tool for your security, automation, and monitoring requirements. The GSM Communicator µGATE has been designed to provide a superior level and control of any personal or real property.
Please read this guide carefully and keep it in a safe place for future reference.

Operation commands

The GSM Communicator is able to be operated via simple TXT commands. Operations such as arming and disarming, switching of output ports are made simple and easy via the GSM network world wide. 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.

- 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.

Arming and Disarming the GSM Communicator

The GSM Communicator can be activated (arm) or deactivated (disarm) via TXT or call.
To arm the unit via TXT, the command is:

- 1234 arm

To disarm the unit via TXT, the command is:

- 1234 disarm

If these commands were correct, you will receive the following TXT confirmation

- uGate: arm or uGate: disarm

If the calling confirmation is selected, you will receive a confirmation call (1-3 rings) when the unit is armed but no confirmation call when it is disarmed.

Switching Output port R1 and R2

Output port R1 can be activated or deactivated via TXT or call.

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

If these commands were correct, you will receive the following TXT confirmation

- uGate: r1on or uGate: r1off

If the calling confirmation is selected, you will receive a confirmation call (1-3 rings) when the output port R1 is switched on but no confirmation call when it is switched off.

Output R2 can be switch in the same way

To switch the output port R2 on via TXT, the command is:

- 1234 r2on

To switch the output port R2 off via TXT, the command is:

- 1234 r2off

Note: These switching commands are factory pre set, you can customize under custom setting

Storing mobile numbers

The GSM Communicator is able to contact up to three different mobile numbers per input triggered via TXT or call. Each mobile number has to be programmed with the corresponding input as illustrated at the following table.

INPUT 1	INPUT 2
Number1	Number2
Number1a	Number2a
Number1b	Number2b
Service number	

The table shows that the first three mobile numbers will be allocated to input 1, the following three mobile numbers to input 2. The input itself can be custom named (refer to naming the input).
In the following example we will use a dummy mobile number which is 021123456 in order to illustrate the programming. That this number will receive a TXT when input 1 and 2 has triggered.

To store the above mobile number for input 1, the command is:

- 1234 number1 021123456

To store the above mobile number for input 2, the command is:

- 1234 number2 021123456

If the commands were correct, you will receive the following TXT confirmation:

- µGATE: save ok

Number 1a, 1b, 2a and 2b can be programmed in the same way.

Note: A new number will overwrite old number

Service number

System parameters are excess able from a dedicated mobile number (here called service number) in form of diagnostic TXT and low prepay balance warning. A dedicated mobile number has to be set up as the service number ("numbers") which can be different to all the numbers stored under "input ports"
To store a service number, the command is:

- 1234 numbers 021123456
-

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

- uGate: save ok

Delete mobile numbers

To delete a stored number individually, for example mobile number stored under input2 position 2a, the command is:

- 1234 number2a delete

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

- µGATE: delete ok

To delete all stored numbers, the command is:

- 1234 clear all numbers

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

- µGATE: All phone numbers deleted, activity of system is restricted!

Reports

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.

To find out what mobile number is stored in which position, for example number stored under input 2 in positions 2a the command is:

- 1234 number2a?

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

- µGATE: In position 2a save number 021123456

Vodafone Prepay SIM balance report

This function allows the operator to find out current VODAFONE PREPAY SIM balance. The 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

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

Status report

Status report of actual system parameters can be obtained via the following TXT command:

- 1234 stat?

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

- Name of The GSM Communicator
- Armed/disarmed status
- Output ports active/deactivate
- GSM network provider
- GSM signal strength
- Processor temperature
- Input activation history – number of times input 1 and/or input 2 was triggered during an armed cycle (period between arming and disarming the unit). The history will be erased after the unit is armed again or via TXT command

- 1234 delete hist

Note: The GSM Communicators are reliant on adequate GSM coverage. In the event of inadequate or no GSM coverage, Pacific GSM Limited cannot be held liable for any damages or loss. If the GSM signal is not sufficient (below 40%), the use of an external aerial is recommended.

Inputs 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)

Help function

Messages that contain a valid PIN with a command that is not recognised will receive an error message i.e.

- µGATE: ERROR. For help use command HELP. (Err. Code: #E5)

If you forget switching commands for outputs the basic commands can be obtained via TXT command:

- 1234 help

If the command was correct, you will receive the following TXT confirmation containing the name and switching commands for the outputs and operation commands:

- µGATE: R1ON, R1OFF, R2ON, R2OFF, ARM, DISARM, STAT?, LISTN, INPUT?

Custom settings

Naming the GSM Communicator

The GSM Communicator is able to be named in order to identify the device which it is used for. For example, if the unit is used as a home alarm, the name could be “Home”. Each name can be made of max 16 characters including spaces. In the following example we will name the GSM Communicator – Home.

To program an equipment name, the command is:

- 1234 name home:

If the commands were correct, you will receive the following TXT confirmation:

- home: save ok

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 as illustrated at the following table. Each TXT can be made of max 16 characters including spaces.

INPUT 1	INPUT 2
TXT1	TXT2

The table shows that TXT 1 will be allocated to input 1, TXT 2 to input 2. For example, if the unit is used as a home alarm and input 1 is monitoring the entrance area, the corresponding message when the input is activated, is:

- "home : entrance".

To store a name (entrance) for input 1, the command is:

- 1234 txt1 entrance

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

- home: save ok

Input 2 can be programmed in the same way.

Naming of Output port R1 and R2

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. For example, if the unit is used as a home alarm, the output R1 signal can be linked to a light circuit, the corresponding message when the output is activated is:

- "home: light on".

To store a name (light) for that output, the command is:

- 1234 nrel1 light

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

- home: save ok

The output R2 can be used to switch an appliance such as a heater, the corresponding message when the output is activated is:

- “home: heater on”.

To store a name (heater) for that output, the command is:

- 1234 nrel2 heater

If the commands were correct, you will receive the following TXT confirmation:

- home: save ok

Set up Control Commands of output R1 and R2

Outputs can be controlled and operated via simple TXT commands. This enables the operator to control any application remotely. These TXT commands can be custom named and each command name can be made of min 4 and max 16 characters including spaces. For example, if the unit is used to switch lights remotely via output port R1 on, the corresponding command message could be “lights on”. This enables the operator to control a specific application with its own, custom named command.

To store the command to switch lights (lights on) for output R1, the command is:

- 1234 onr1 lights on

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

- home: save ok

Conversely, if the unit is used to switch the lights off remotely via output port R1, the corresponding command message could be “lights off”.

To store the command (lights off) for output R1, the command is:

- 1234 offr1 lights off

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

- home: save ok

Output R2 can be programmed in the same way.

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.

To change the PIN from 1234 to 5532, the command is:

- 1234 npin 5532

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

- home: save ok

Automatic low balance prepay SIM warning

The GSM Communicator 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 use the following command:

- 1234 minc 5 (example for $5)

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

- uGATE: Min. credit is set up $5

When your pre paid SIM reaches $5 you will receive a message stating:

- uGATE: Warning! Credit is low. Credit is: $5

To switch off these function use the following command:

- 1234 minc 0

WARNING : txt receive only dedicated mobile number (here called service number) .A dedicated mobile number has to be set up as the service number ("numbers") which can be different to all the numbers stored under "input ports"
Note: These functions only available with a Vodafone pre-pay SIM card.

Restart

This function allows the operator to remotely restart the GSM Communicator via a simple TXT command.
To restart the unit, the command is:

- 1234 restart ugate

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

- µGATE: save ok

Audio tapping

This facility provides the operator with an audio surveillance option. Any noise around the installation of the GSM Communicator can be picked up. The maximum audio surveillance time is one minute as the unit is not a listening device.

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 cannot 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 and AUSTRALIA.

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.

Information in this document is subject to change without any notice. Pacific GSM Limited reserve the right to change or improve its products

and to make changes in the content without obligation to notify any person or organisation of such changes or improvements. Visit the Pacific GSM Web site (www.pacificgsm.co.nz) for current updates and supplemental information concerning the use and operation of this and other Pacific GSM products.

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 one 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 devises not approved by Pacific GSM Limited.

SIM Card Details

Contact Number	
Security PIN	
Online ID	
Password	
Date Registered	

µGate

IMEI	

Security PIN	

Mobile Numbers Stored

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

Input Names

Input 1	
Input 2	

Output Names

Output 1	
Output 2	

Output Control Commands

Output 1	
Output 2	

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

CE

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