PGA VolP

4G MOBILE NETWORK GATEWAY EQUIPMENT FOR ELEVATORS







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GENERAL WARNINGS

GENERAL REMARKS

Pay close attention to the warnings in this section as they provide important information for safe installation, proper use, and proper maintenance of the product..

- The device must be used EXCLUSIVELY for its intended purpose, and ANEP cannot be held responsible for any damages resulting from improper use..
- Since the product has been designed in compliance with current standards, installation must take place within facilities that are compliant and meet the appropriate standards..
- Before performing any intervention inside or outside the product (cleaning, maintenance, etc.), disconnect the device from the power supply and the battery.
- For any repair intervention, please contact exclusively our after-sales service, SAVTEL...
- Install the product in a well-ventilated area, ensuring that the ventilation openings are never obstructed..
- Do not install the product in a potentially explosive environment...
- Ensure that the product is installed according to the prescribed instructions.
- Do not introduce objects, liquids, or dust, and do not use spray inside the product.
- The packaging materials should not be left within reach of children as they may pose potential hazards.
- To achieve better 4G GSM network reception, install the gateway as high as possible in the building, ideally in high machinery areas, or at the top of the elevator shaft.

RECOMMENDATIONS FOR USING NIMH BATTERIES:

The NiMH battery has a lifespan of between **500** and **1500** charge and discharge cycles, or **between 2 and 3 years**.

If the battery life drops by more than 20% (see code 62), it indicates that the battery is reaching the end of its lifespan.

- No overcharging.

- Operating temperature between 10°C and 40°C.
- No deep discharge.
- No long-term storage.

We recommend replacing the battery every 3 years.



CAUTION



Risk of explosion if the battery is replaced with an incorrect type. Dispose of used batteries according to the instructions.

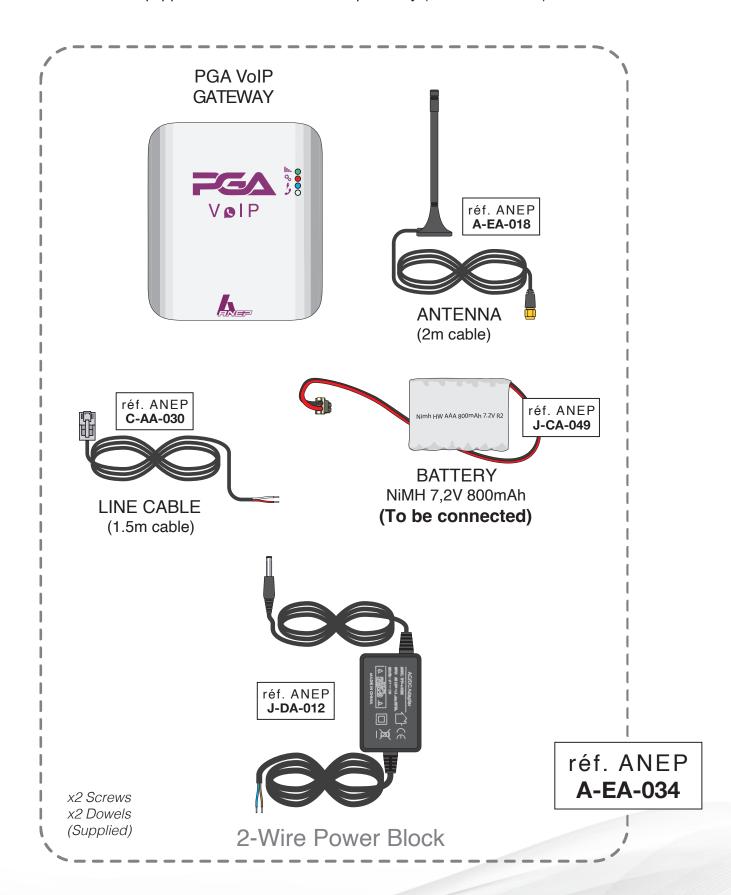


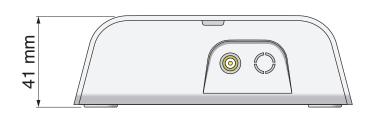
Electrical equipment must be recycled in accordance with Directive No. 2012/19/EU of 04/07/12 regarding waste electrical and electronic equipment (WEEE).

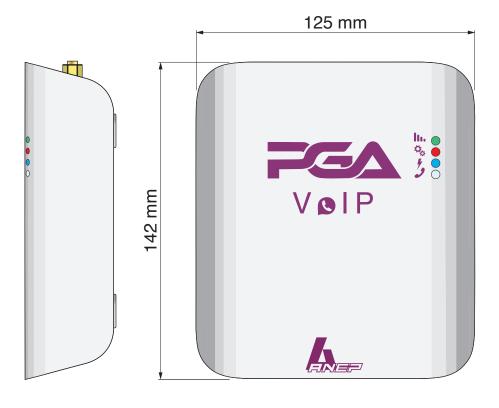
DESCRIPTION

PGA VoIP is a device that, when connected directly to a landline phone or a telealarm, allows making and receiving calls via the mobile network. A **SIM** card is required for operation.

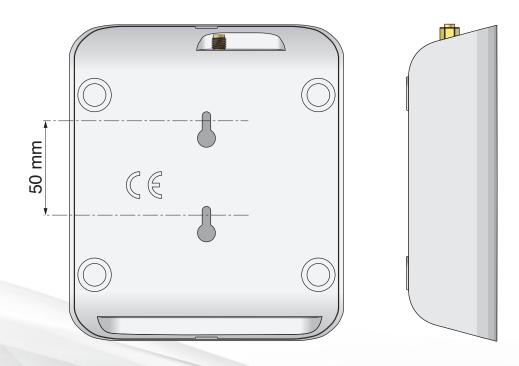
PGA VolP is equipped with an internal backup battery (to be connected).











MAIN FEATURES

- VoLTE Call: Operator VoIP (voice channel)
- VoLTE IP Call: Operator VoIP (voice channel)
- VoIP Call: G711 Codec, Inband/Outband RFC4733
- Wi-Fi : 2.4 GHz
- Local Programming via a telephone handset or remotely via [SMS / IP]
- Roaming Service Management
- Remote Firmware Update (with data plan) (Minimum 5 MB)
- Battery Charge Level Monitoring
- Notifications:
 - Power and Battery Status [SMS / IP]
 - Gateway Status every 15 minutes [IP]
- Power outage under DTMF ANEP protocol
- Fallback :
 - VoLTE Mode: Connection to the 4G network, fallback to 3G/2G (SMS and voice only)
 - IP VoLTE Mode: Fallback to VoLTE mode
 - VoIP Mode: Fallback to VoLTE mode
- Signal level reading for 4G, 3G, or 2G [LOCAL / SMS / IP]
- Automatic converter for the selected number
- Transmission and reception gain adjustment [SMS / IP]
- Wi-Fi hotspot mode
- Remote reset [LOCAL / SMS / IP]
- Mode: Inband / Outband
- Dual Band module (European 4G network)
- Direct 12V DC power input
- External transformer power input 230Vac / 12V DC
- External antenna (cable L = 2m) / (antenna with 10m cable optional)
- External adapter with socket or two-wire (input 230Vac 50 Hz, output 12V DC 1A)
- Dimensions: 142 x 125 x 41 mm
- Weight: 680g (complete package)

LEDS

Green LED: Mobile network strength in 4G, 3G, or 2G

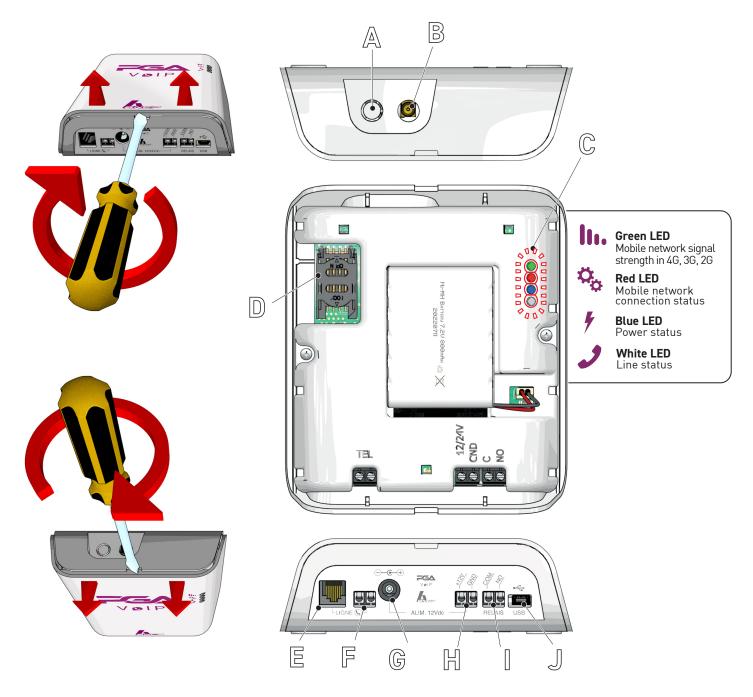
Red LED : Mobile network connection status

Blue LED : Power status

White LED: Line status

LED STATUS GUIDE, SEE PAGE 41

> Remove the cover by pressing on the upper side.



- $\mathbb A$ Reserved space for a second antenna
- B SMA connector for the antenna cable
- C LED signal strength indicator for 2G, 3G, 4G (green)
 - LED mobile network connection status (red)
 - LED line status (white)
 - LED power status (blue)
- SIM card slot (standard SIM 2FF format)
- RJ11 connector for connecting a fixed handset or remote alarm system.
- F Terminals for connecting a fixed handset or remote alarm system.
- © External 12V power supply connection.
- dash Input for external transformer power supply 230Vac / 12V DC
- Relay contact output (maximum 125Vac or 60V DC / 1A MAX.)
- Mini USB output

INSTALLATION

Installation Tips

- The **PGA VoIP** gateway must be installed in a location where the radio signal is sufficient for proper operation (machinery or other, or at the top of the shaft). If it is not possible to access the network with the 2m antenna, ANEP can optionally provide a 10m antenna (ref. A-EA-030) or a 5m extension cable (ref: A-EA-025).
- The gateway must under no circumstances be installed on the cabin roof.
- It is important to have enough space around the gateway to optimize maintenance interventions.
- The **PGA VoIP** gateway cannot be installed outdoors as it has not been designed with protection against weather elements (rain, humidity, etc.) that could damage it.
- Do not install the **PGA VoIP** gateway near other electronic devices (radio or TV equipment, computers, broadcast systems, etc.) or magnetic devices (credit cards, tickets, etc.) that may be subject to RF interference from the gateway. The recommended minimum distance is 2.5 meters.
- The **PGA VoIP** gateway should not be installed near medical devices. Its use may interfere with hearing aids or pacemakers.
- Ensure that the use of the gateway is permitted at the installation location. It should not normally be installed in hospitals, airplanes, etc.

INSTALLATION

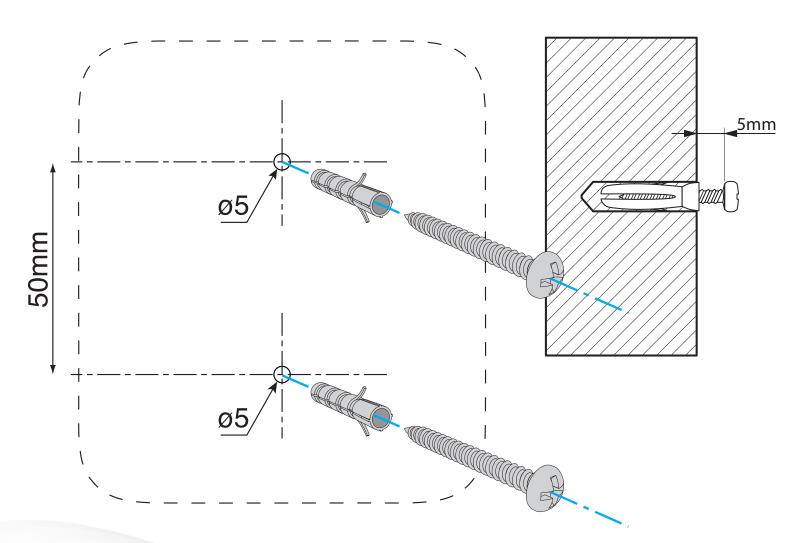
MOUNTING

Check the mobile network strength using the green LED network strength indicator (see section "LED Status Guide", page 41).

Locate an area where the GSM signal is sufficient; ANEP recommends 3 flashes of the green LED.

Note: The network may vary depending on the mobile operator.

- Make two holes with a diameter of 5 mm in the wall, spaced 50 mm apart.
- Insert the two wall plugs and screw the screws until they are 5 mm from the wall.
- Insert the **PGA VoIP** device through the two rear eyelets onto the two screws on the wall.



INSTALLATION



SIM CARD

(STANDARD 2FF FORMAT)

Before inserting the SIM card:

- Make sure to discharge any static electricity.
- The device should be turned off to avoid damaging it.
- If resuming the contract, reset the settings to default (code 9).

Take all necessary precautions to avoid electrostatic discharges.



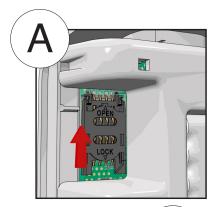
WARNING

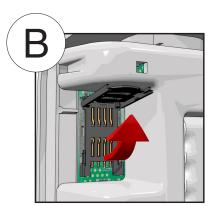
If the SIM card PIN code is ACTIVATED, please refer to <u>page 35</u>.

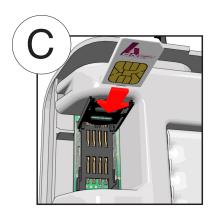
(Risk of SIM card locking)

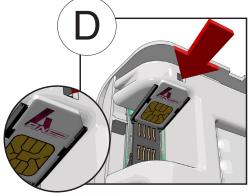
Gently lift the front part of the SIM card slot upwards (until it is unlocked) and then lift it.

Slide the SIM card into the designated slot located on the front part Lower the front part and push it down until it locks into place.

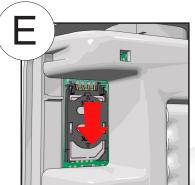












3 ANTENNA



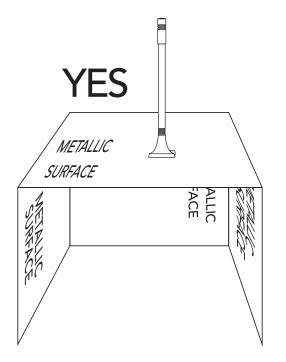
WARNING

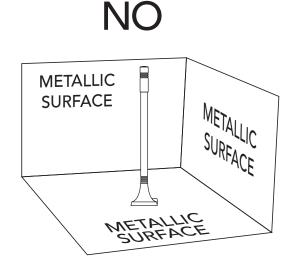
To avoid damaging the device, NEVER power on the PGA VoIP gateway without first installing the antenna.

Screw the antenna cable (2m) provided into the SMA connector (**B** in the photo on page 9) while fully extending the cable.

To ensure proper operation of the **PGA VoIP**, place the magnetic base antenna in a location where there are no metallic structures that could block the signal.









WARNING

Do not install the product near other electrical or electronic devices that were not designed to be used with it and could cause disturbances or interference.

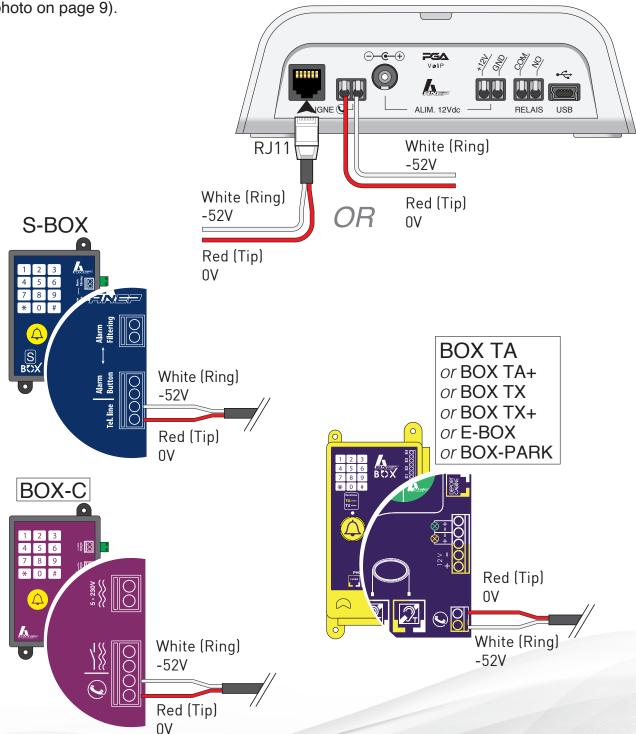
4 TELEALARM

Connect the **PGA VoIP** device to a landline phone or a telealarm via the RJ11 connector (see **E** photo on page 9).

or

Connection diagram for the ANEP BOX range

Connect the **PGA VoIP** device to a landline phone or a telealarm via the TEL terminal (see **F** photo on page 9).



Power supply BY TRANSFORMER 230VAC / 12VDC

C—C—T PGA VoIP VOIP ALIM. 12Vdc RELAIS USB

Power supply via external adapter 230Vac / 12Vdc on **terminal G**

 Connect the external adapter to the designated G input (see photo on page 9).

Note: It is recommended to provide appropriate electrical protection upstream of the product, in order to cut off the power supply in case of a fault.

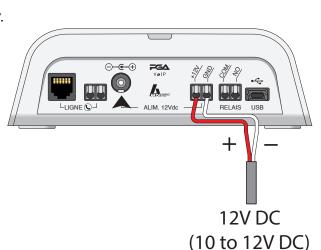


Power supply via direct 12Vdc / 1A (Terminal H) (see photo on page 9)

Connect the power cord to terminal H
 (see photo on page 9), ensuring correct polarity.

Note: The maximum supply voltage that can be provided is 12Vdc.

The minimum supply voltage that can be provided is 10Vdc.



6 BATTERY

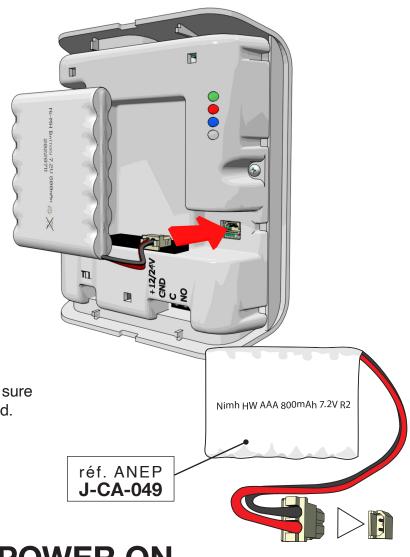
 Connect the battery as shown here.



WARNING

The backup battery must be connected <u>after</u> the power supply of the **PGA VoIP**.

 Close the device cover, making sure to be careful with the power cord.



POWER ON

- Power the **PGA VoIP** gateway (see page 15).
- Wait at least 30 seconds to 3 minutes, or longer, for the gateway to be properly registered on the 4G, 3G, or 2G mobile network.
- Make sure that the mobile network connection status LED (RED) blinks rapidly once every 3 seconds, as indicated in the **"Indicators"** chapter (see page 42).

If the red mobile network connection status LED remains on (see page 42), it means the gateway is not properly connected to the 4G, 3G, or 2G network.

- Disconnect the PGA VoIP and check that the SIM card is correctly inserted or not blocked by the PIN code.
- Also, refer to the "Troubleshooting" chapter (see page 45).

PROGRAMMING BY HANDSET

Allows customization of the device according to specific requirements. Programming can be done manually using a multifrequency handset equipped with a keypad.

It is necessary to lift the handset to program.

MAIN PARAMETERS:

- Roaming service configuration
- Warning SMS number
- Administrator number
- Programming password
- Battery charge level control
- Mains power loss control
- Automatic conversion of the selected number
- Receiver gain adjustment
- Transmitter gain adjustment
- Front-end call number
- Gateway identifier number



Note: During programming, there must not be more than 5 seconds between each digit.

After 5 seconds without input, a warning tone will sound, and it will be necessary

to hang up.

Note: At the end of each programming, if it is correct, a confirmation tone will sound.

If it is incorrect, an error tone will sound. In all cases, the selection prompt tone will follow,

allowing you to proceed with programming and make a call.

Note: It is possible to perform the programming even without a network.

After the confirmation or error tone, the no-network tone will follow.

You can continue programming or hang up.

The format on the handset must be as follows:

<Prefix>N*X#

OR:

<Pre><Pre>refix>: ** -> Start of keypad programming

N -> Instruction

X -> Parameter value

Example Instruction 40, NETWORK SIGNAL LEVEL MEASUREMENT:

Reading -> * * 40#

Example Instruction 12, OPERATION MODE:

Writing -> * * 12*X#

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SMS PROGRAMMING

SMS programming can be performed from any mobile handset or other device capable of sending SMS.

If the administrator number has been configured, SMS programming is only allowed from this handset number.

A confirmation notification SMS of the programming is sent from the PGA to the number that sent the programming SMS.





ATTENTION

SMS programming may not work if the required format is not followed.

Each programming SMS must contain the password required to access the programming and the codes for the programming tasks to be performed.

The format of the SMS message must be as follows:

Writing: <Prefix>*xxx#N*X#

Reading: <Prefix>*xxx#NR

Or:

<Prefix>: AN-PGA -> Start of the programming string

*XXX# -> Password string (default XXX = 0)

N -> Instruction

X -> Parameter value

-> Programming code separator character or end-of-string character

R -> Character indicating a read operation

Example Instruction 40, NETWORK SIGNAL LEVEL MEASUREMENT:

Reading -> AN-PGA*0#40R

Example Instruction 12, **OPERATION MODE:**

Reading -> AN-PGA*0#12R

Writing -> AN-PGA*0#12*X#

MQTT PROGRAMMING VIA IP

MQTT programming via IP can be performed from the ANEP server or using the ANEP programming web application.

The format of the IP message must be as follows:

Writing: <Prefix> N*****X#
Reading: <Prefix> NR

Or:

N -> Instruction

X -> Parameter value

-> Programming code separator character or end-of-string character

R -> Character indicating a read operation

Example Instruction 40, NETWORK SIGNAL LEVEL MEASUREMENT:

Reading -> conf 40R

Example Instruction 12, **OPERATION MODE:**

Reading -> conf 12R Writing -> conf 12*****X#

PROGRAMMING INSTRUCTIONS Function Command Handset SMS MQTT IP Format Comment

The factory-set value is indicated in bold and blue characters.

| | | The factory-se | et value is ii | ndicate | ed in bo | old and blue charact | ers. | |
|----|---------------------------------------|----------------|----------------|---------------|-----------------|--|---|---------|
| 1 | IDENTIFICATION
GATEWAY TYPE | Reading | | V | ▽ | <prefix>1R</prefix> | Answer: AN?PGA*0#1* PGA000000000 PGA02.01 PGA00-B EC200AEUHAR01A24M16_01.200.01.200 862997061224485 ATC:4G VoLTE MCC:208 MNC:20 TAC:7530 Cell:7A12504 RSRP:-8 6 RSRQ:-10 OFH # | page 36 |
| 2 | FORCING
PROVISIONING | Writing | \checkmark | V | ✓ | <pre><prefix>2#</prefix></pre> | | |
| 4 | | Writing | ✓ | V | V | <pre><prefix>4*X#</prefix></pre> | X from 0 to 1 | |
| 4 | RELAY CONTROL | Reading | | ✓ | ✓ | <pre><pre><pre><pre>4R</pre></pre></pre></pre> | 1: closed | |
| 6 | BATTERY STATUS | Dooding | ▽ | | | <pre></pre> prefix>6# | By Handset: 1 BEEP: low battery voltage 25% 2 BEEP: battery average 50% 3 BEEP: Battery good 75% 4 BEEP: Battery 100% charged | page |
| 0 | READOUT | Reading | | ✓ | ✓ | <pre></pre> prefix>6R | By SMS: 1: Battery low 25% 2: Average battery 50% 3: Battery good 75% 4: Battery 100% charged | e 37 |
| 7 | REMOTE UPDATE | Writing | | ✓ | | <pre><prefix>7#</prefix></pre> | | |
| 8 | RESTART (REBOOT) | Writing | \checkmark | ✓ | ✓ | <pre><prefix>8#</prefix></pre> | | page |
| 9 | RESET FACTORY
SETTINGS | Writing | \checkmark | \checkmark | $\overline{}$ | <pre><prefix>9#</prefix></pre> | | e 38 |
| 10 | DELAY BEFORE
DIALING THE CALL | Writing | \checkmark | V | <u></u> | <pre><prefix>10*X#</prefix></pre> | X: 2 Delay after which the number will be | |
| 10 | NUMBER | Reading | | <u></u> | _ | <pre></pre> prefix>10R | dialed | |
| 10 | HOW TO HOE | Writing | \checkmark | <u></u> | \checkmark | <pre><prefix>12*X#</prefix></pre> | X from 1 à 2 | |
| 12 | HOW TO USE | Reading | | <u></u> | ✓ | <pre><prefix>12R</prefix></pre> | 1 : Tone played by network 2 : Tone played by gateway | |
| 15 | ITINERANCE
(ROAMING) | Writing | ✓ | ✓ | V | <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre> | MCC : MCC Code
MNC : MNC Code
X from 0 to 2 | |
| 13 | (1) | Reading | | $\overline{}$ | ✓ | <pre></pre> prefix>15R | 0 : Off 1 : On 2 : Auto fallback | |
| 10 | PERIODIC | Writing | \checkmark | | $\overline{}$ | <pre></pre> prefix>16*X# | X from 0 to 1 | |
| 16 | NETWORK
DISCONNECTION | Reading | | $\overline{}$ | ✓ | <pre><prefix>16R</prefix></pre> | 0 : Disabled
1 : Activé | |
| 17 | PERIODICITY
OF PERIODIC
NETWORK | Writing | \checkmark | ✓ | ✓ | <pre><prefix>17*X#</prefix></pre> | X from 0 to 100 | |
| 17 | DISCONNECTION
IN DAYS | Reading | | \checkmark | ✓ | <pre></pre> prefix>17R | 1: 1 day | |
| 20 | TRANSMISSION
GAIN SETTING | Writing | \checkmark | ✓ | ✓ | <pre><prefix>20*X#</prefix></pre> | The gain range is from 0 to 36 (expressed in dB) 0 : Very high gain | |
| 20 | (2) | Reading | | <u></u> | ✓ | <pre><prefix>20R</prefix></pre> | 15 : Medium gain
36 : Very low gain | page |
| 01 | RECEPTION GAIN
SETTING | Writing | \checkmark | V | ✓ | <pre><prefix>21*X#</prefix></pre> | The gain range is from 0 to 36 (expressed in dB) | 9 29 |
| 21 | (2) | Reading | | ✓ | ✓ | <pre><prefix>21R</prefix></pre> | 0 : Very high gain 15 : Medium gain 36 : Very low gain | |

		PROGI	RAMMII	NG IN	NSTR	UCTIONS	
Code	Function	Command	Handset	SMS	MQTT IP	Format	Comment

The factory-set value is indicated in bold and blue characters.

			varae ie man			and blue characters		
	ADMINI HANDOUT	Writing		<u></u>	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Warning : You must include the	
28	ADMIN HANDSET NUMBER (2)	Deletion	\checkmark	<u></u>	✓	<pre><prefix>28#</prefix></pre>	country code before the phone number.	
	(=)	Reading		✓	✓	<pre><prefix>28R</prefix></pre>	Ex: 33145101304	
29	PASSWORD PROGRAMMING	Writing	V	✓	✓	<pre><prefix>29*X*Y*Y#</prefix></pre>	Warning: 3 digits max Default: 0 X: Old password Y: New password	
		Writing	✓	▽	✓	<pre>cprefix>35"Y"Z"Z# 10, allowing</pre>	The indexes range from 1 to 10, allowing a total of 10 phone numbers. Numbers dialed by the	
35	SOURCE NUMBER	Deletion	✓	✓	✓	<pre><prefix>35*Y#</prefix></pre>	device that are not recognized are automatically added to the table. This makes it possible to	
33	AUTO-CONVERSION	Complete erasure	✓	✓	V	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	later query the table and identify new numbers.	_
		Reading		✓	✓	<pre><prefix>35YR</prefix></pre>	Y: Index value ranging from 1 to 10 Z: Phone number	page
		Writing	\checkmark	\checkmark	✓	<pre><prefix>36*Y*Z*Z#</prefix></pre>		30
	DESTINATION	Deletion	\checkmark	✓ ✓ <pre> ✓ <pre> </pre></pre>	<pre><prefix>36*Y#</prefix></pre>	Y: Index value from 1 to 10		
36	NUMBER AUTO-CONVERSION	Complete erasure	✓	✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Z: Phone number (destination)	
		Reading		$\overline{}$	\checkmark	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
40	NETWORK SIGNAL LEVEL	Reading	\checkmark			<pre><prefix>40#</prefix></pre>	Signal Measurement: 1 : Low 2 : Medium	page
40	MEASUREMENT	neading		✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	3 : Good 4 : Very Good	e 32
43	NETWORK MODE	Writing	✓	✓	✓	<pre><prefix>43*X#</prefix></pre>	Network Type Setting: 0 : Automatic 1 : 2G	
43	CONFIGURATION	Reading		✓	V	<pre><prefix>43R</prefix></pre>	2 : 3G 3 : 4G	
		Writing	✓	<u></u>	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
50	HANDSET NUMBER FOR NOTIFICATION	Deletion	✓	V	✓	<pre><prefix>50#</prefix></pre>		
		Reading		✓	✓	<pre><prefix>50R</prefix></pre>		
	LIANDOFT NUMBER	Writing	✓	✓	✓	<pre><prefix>52*XX*XX#</prefix></pre>		
52	HANDSET NUMBER FOR ANEP PROTOCOL	Deletion	✓	✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
		Reading		✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
		Writing	✓	✓	✓	<pre><prefix>54*XX*XX#</prefix></pre>	The identifier corresponds to the transmitter number of the ANEP	
54	ANEP PROTOCOL IDENTIFIER	NEP PROTOCOL Dolotion BOX.						
		Reading		✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Example: 53104578	

		PROG	RAMMI	NG I	NSTF	RUCTIONS			
Code	Function	Command	Handset	SMS	MQTT IP	Format	Comment		
	7	he factory-set	value is ind	licated	in bold	and blue characters	S.		
E0.	GSM VOICE	Writing	\checkmark	V	V	<pre><prefix>58*X#</prefix></pre>	X from 0 to 1		
58	DOMAIN PREFERENCE	Reading		✓	✓	<pre></pre> cprefix>58R	O: Voice 1: Data		
00		Writing	V	✓	✓	<pre></pre> cprefix>60*X#	X from 0 to 1	Ī	
60	BATTERY CHECK	Reading		✓	<u></u>	<pre></pre> cprefix>60R	0: Enabled 1: Disabled		
00	BATTERY	Writing		V		<pre><prefix>62*X#</prefix></pre>	X from 0 to 6 0:4H 1:3H30 2:3H		
62	THRESHOLD	Reading		✓	V	<pre><prefix>62R</prefix></pre>	3 : 2H30 4 : 2H 5 : 1H30 6 : 1H		
0.5	IN-BAND / OUT-OF-	Writing	✓	✓	✓	<pre><prefix>65*X#</prefix></pre>	X from 0 to 1	Ī	
65	BAND MODE	Reading	✓	✓	✓	<pre></pre> cprefix>65R	0 : IN-BAND 1 : OUT-OF-BAND		
	TELEPHONE LINE	Writing	✓	✓	✓	<pre><prefix>71*X#</prefix></pre>	X from 0 to 1		
71	VOLTAGE	Reading		✓	✓	<pre></pre> cprefix>71R	0 : 36 Vdc 1 : 52 Vdc		
		Writing	✓	✓	✓	<pre><prefix>72*X#</prefix></pre>		1	
72	SIM CARD NUMBER	Deletion	✓	✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
		Reading		✓	V	<pre></pre> prefix>72R			
		Writing	✓	✓	✓	<pre><prefix>82*XX*XX#</prefix></pre>			
82	PERIODIC TEST CALL NUMBER		Deletion	✓	✓	V	<pre><prefix>82#</prefix></pre>		
		Reading		✓	V	<pre><prefix>82R</prefix></pre>			
00	PERIODIC TEST MODE	Writing	✓	✓	✓	<pre><prefix>83*X#</prefix></pre>	X from 0 to 1	1	
83		Reading		✓	✓	<pre><prefix>83R</prefix></pre>	0 : Voice call 1 : SMS		
	DEDIODIO TEGT	Writing	✓	✓	✓	<pre><prefix>84*XX#</prefix></pre>	XX from 0 to 99 1 -> 10 days	1	
84	PERIODIC TEST INTERVAL	Reading		✓	✓	<pre><prefix>84R</prefix></pre>	11 -> 99 hours 1 (1 day)		
	PERIODIC	Writing	V	✓	✓	<pre><prefix>85*HHMM#</prefix></pre>	HH: Hours, MM: Minutes		
85	TEST TIME	Reading		✓	✓	<pre></pre> cprefix>85R	The test will occur 15 minutes after power-up		
		Writing	V	✓	✓	<pre><prefix>87*X#</prefix></pre>	X from 0 to 2 0: Disabled	1	
87	PERIODIC TEST	Reading		✓	V	<pre><prefix>87R</prefix></pre>	1 : Enabled 2 : Forced		
90	GATEWAY TYPE IDENTIFICATION	Reading		✓	✓	<pre><prefix>90R</prefix></pre>	Refer to instruction 1!		
		Writing	✓	V	V	<pre></pre> cprefix>91*MMRR#	MM : Delay (in minutes) before detection of main power failure		
91	MAIN POWER CHECK	Reading		V	V	<pre><prefix>91R</prefix></pre>	(range: 01 to 99) RR: Delay (in minutes) before detection of main power recovery (range: 01 to 99) Default value: 0103		

	PROGRAMMING INSTRUCTIONS										
Code	Function Command Handset SMS MQTT IP Format Comment										
	The factory-set value is indicated in bold and blue characters.										
00	DIN CODE CETUD	Writing	✓	✓		<pre><prefix>92*XX*XX#</prefix></pre>					
92	PIN CODE SETUP	Reading		✓	<u></u>	<pre><prefix>92R</prefix></pre>					
00	PIN CODE	Writing	g 🔽		$\overline{}$	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	page			
93	ENABLE / DISABLE	Reading		<u></u>	<u></u>	<pre><prefix>93R</prefix></pre>	1: Enabled	e 35			
94	CHANGE PIN CODE (7)	Writing	✓	✓	<	<pre><prefix>94*XXX*YYY*ZZZ#</prefix></pre>	XXX : Current PIN code YYY : New PIN code ZZZ : Confirm new PIN code				
В	PROVISIONING	PROVISIONING	Writing		✓	$\overline{}$	<pre><prefix>B*X#</prefix></pre>	ANEP Provisioning			
В	ADDRESS	Reading		✓	✓	<pre><prefix>BR</prefix></pre>	X : http(s):// (Provisioning server address)				
Т	GATEWAY TIME AND DATE RETRIEVAL	Reading		✓	✓	<pre></pre> prefix>TR					

Volte / IP Volte

By default (factory settings), the gateway operates in 4G VoLTE mode with 2G/3G fallback



By enabling IP VoLTE mode, the PGA gateway converts DTMF signals for transmission over the data channel.



INSTRUCTIONS DE PROGRAMMATION IP VOLTE BY Function Command Handset SMS MQTT IP Format Comment

The factory-set value is indicated in bold and blue characters.

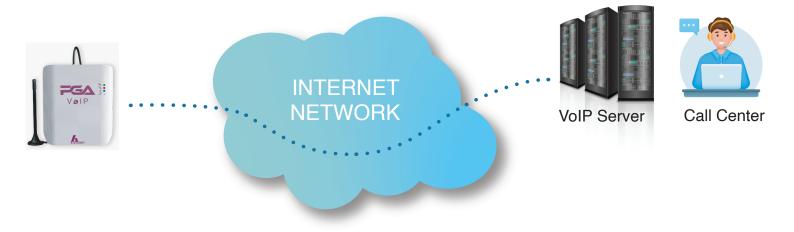
		Writing		✓	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	C is used for apn name F is used for user	
CFG	SELECTED APN	Reading		V	V	<pre><prefix>CFGR</prefix></pre>	G is used for pwd ORANGE> AN-PGA*0#Corange#F#G# ORANGE> AN-PGA*0#Corange.m2m.spec#F#G# BOUYGUES> AN-PGA*0#Cmmsbouygtel.com#F#G# BOUYGUES> AN-PGA*0#Cobjcobytel#F#G# BOUYGUES> AN-PGA*0#CobjcoPprive#F#G# BOUYGUES> AN-PGA*0#Ca2bouygtel.com# SFR> AN-PGA*0#Csl2sfr#F#G# SFR> AN-PGA*0#Cm2minternet#F#G#	
		Writing	/	✓	V	<pre><prefix>57*X#</prefix></pre>	X from 0 to 2 (Note: option 2 is not functional)	
57	57 TRANSLATION MODE	Reading		$\overline{\checkmark}$	\checkmark	<pre><prefix>57R</prefix></pre>	Transparent P100 Emulation and data sent to MQTT broker server DTMF translation handled by the server (not functional)	
_	SERVER	Writing		✓	✓	<pre><prefix>D*<server>#</server></prefix></pre>	ANEP IP VolTE Server	
D	ADDRESS	Reading		✓	\checkmark	<pre><pre><pre><pre>prefix>DR</pre></pre></pre></pre>	Server : mqtt:// <server></server>	
		Writing		✓	V	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
E	SERVER PORT	Reading		✓	✓	<pre><prefix>ER</prefix></pre>	Communication Port: 1883	
Р	DACCWODD	Writing		\checkmark	\checkmark	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	and .	
	PASSWORD	Reading		✓	V	<prefix>PR</prefix>	pwd:	
U	USERNAME	Writing		✓	✓	<pre><prefix>U*<username>#</username></prefix></pre>	lisername :	
	USLINAIVIE	Reading		✓	V	<pre><prefix>UR</prefix></pre>	username :	

VolP

When connecting to the provisioning server at first power-up, this function can be activated automatically.

Otherwise, refer to the VoIP command table to activate the feature manually.

Note: The gateway switches to VoLTE fallback mode if the VoIP communication fails.



VoIP: End-to-end private IP over an Internet connection • • • • • •

	VoIP PROGRAMMING INSTRUCTIONS							
Code	Function	Command	Handset	sms M	IQTT IP	Format	Comment	

The factory-set value is indicated in bold and blue characters.

		7770 7070	,		raroat	ca iii bola alla bla	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
66	DTMF MODE	Writing	\checkmark	✓	<u></u>	<pre><prefix>66*X#</prefix></pre>	X from 0 to 1 0: INBAND	
	IN VoIP	Reading		✓	✓	<pre></pre> cprefix>66R	1: OUTBAND	
70	VoIP RECEIVE	Writing	\checkmark	\checkmark	✓	<pre><prefix>70*X#</prefix></pre>	X from 0 to 100	
70	VOLUME	Reading		✓	✓	<prefix>70R</prefix>	50	
		Writing	\checkmark	~	✓	<pre><prefix>73*X#</prefix></pre>	XX = 0, 1, 01 ou 10 0: Modem	
73	CALL MODE	Reading		✓		<prefix>73R</prefix>	1: VoIP 01 = Primary transmission via Modem, fallback to VoIP 10 = Primary transmission via VoIP, fallback to Modem	
		Writing	\checkmark	<u></u>	<u></u>	<pre><prefix>74*X#</prefix></pre>	X from 0 to 1	
74	CODEC	Reading		$\overline{}$	<u></u>	<pre></pre> prefix>74R	0: G711U 1: G711A	
7.5	TRANSPORT	Writing		<u></u>	✓	<prefix>75*X#</prefix>	X from 0 to 1	
75	LAYER	Reading		✓	✓	<pre><prefix>75R</prefix></pre>	0: UDP 1: TCP	
		Writing		<u></u>	✓	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
76	USERNAME	Deletion		<u></u>	<u></u>	<pre><prefix>76#</prefix></pre>	username:	
		Reading		✓	✓	<pre></pre> prefix>76R		
		Writing		$\overline{}$		<pre><pre></pre>cprefix>77*<pwd>#</pwd></pre>		
77	PASSWORD	Deletion		✓	$\overline{}$	<pre><prefix>77#</prefix></pre>	pwd:	
		Reading		$\overline{}$	<u></u>	<pre></pre> prefix>77R		
		Writing		✓	<u></u>	<pre><prefix>78*<server>#</server></prefix></pre>		
78	SERVER	Deletion		✓	✓	<prefix>78#</prefix>	ANEP VoIP Server	
		Reading		✓	$\overline{}$	<pre></pre> prefix>78R		
79	PORT	Writing		✓	✓	<pre><prefix>79*<port>#</port></prefix></pre>	Communication Port : 5060	
19	IONI	Reading		✓	✓	<pre></pre> prefix>79R	Communication Port : 5060	
81	SIP SESSION	Writing	\checkmark	✓	✓	<prefix>81*X#</prefix>	300	
01	TIMEOUT	Reading		✓	✓	<pre><prefix>81R</prefix></pre>	300	





- 1. Enable WiFi
 - **5*1#
- Enable WiFi on the mobile device
 In the list of available WiFi networks, look for AN-PGA-WiFi.
- 3. Enter the password to connect to the gateway's WiFi network.

	WiFi PROGRAMMING INSTRUCTIONS										
Code	Function	Command	Handset	SMS	MQTT IP	Format	Comment				
The factory-set value is indicated in bold and blue characters.											
5	ENABLE WIFI	Writing	\checkmark	✓		<pre></pre> cprefix>5*X#	X from 0 to 1				
5	TETHERING	Reading		V	$\overline{}$	<pre><prefix>5R</prefix></pre>	1: Enabled				
_	WIFI SECURITY LEVEL	Writing		✓		<pre><prefix>A*X#</prefix></pre>	X from 0 to 3 0: Open				
A	CONFIGURATION	Reading		V	$\overline{}$	<pre><prefix>AR</prefix></pre>	1: WPA 2: WPA2 3: WPA2_PSK				
С	WIFI PASSWORD	Writing		V	$\overline{\mathbf{V}}$	<pre><prefix>C*X#</prefix></pre>	V. eleveter				
	WIFI PASSWORD	Reading		V	$\overline{}$	<pre><prefix>CR</prefix></pre>	X: elevator				
C	WIFI SSID	Writing		✓		<pre><prefix>S*X#</prefix></pre>	X: AN-PGA-WIFI				
5	S CONFIGURATION	Reading		✓	V	<pre><prefix>SR</prefix></pre>	A. AN-FUA-WIFI				

(1) ROAMING (ITINERANCE)

MCC: Mobile Country Code

208 : France 212 : Monaco

MNC: Mobile Network Code

01 : Orange 10 : SFR

20 : Bouygues

10: Monaco Telecom

Roaming is enabled by default.

To force the device to connect to a specific operator, you must provide the roaming mode, the MCC (Mobile Country Code), and the MNC (Mobile Network Code). The roaming mode can take two values:

- 0 : In this case, the device will connect only when the specified operator's network is available.
- 2: In this case, the device will first attempt to connect to the specified operator's network, and if unavailable, will automatically switch to roaming mode.

(2) GAIN SETTINGS

CODE CODE

20 See programming tables via <u>HANDSET</u>, <u>SMS</u>, or <u>IP (MQTT)</u>

These settings allow you to adjust the transmit and receive gain.



WARNING

The default values are optimized for ANEP and P100 DTMF protocols.

Modify them only if absolutely necessary.

Transmission

0 (high gain) to 36 (low gain)

Default: 15

Reception

0 (high gain) to 36 (low gain)

Default: 15

(3) <u>AUTOMATIC CONVERTER OF DIALED HANDSET</u> <u>NUMBER (ROUTING AND MAPPING)</u>

00		- 4				_
CO	UE	= (U	U	D	ᆮ

35	36	See programming tables via HANDSET, SMS, or IP (MQTT)
----	----	---

If the function is enabled, the gateway will redirect the call to a predefined number instead of calling the handset number dialed from the connected device (e.g., telealarm **BOX TA** or another telephone device).

It is possible to predefine up to 10 handset numbers to call. Each of them can be linked through programming and/or activation of the function. Each handset number can be associated, via programming, with a dialed number.

When the dialed number is not associated with any predefined handset number, the call will be routed to that same number. Additionally, it will be stored in the first available slot in the preselection table, with the same number set as both "selected" and "predefined". This allows, when sending command 35 (read selected number slots) via SMS or IP, to identify the numbers dialed by the telealarm device, and thus define the 'predefined' number using command 36.

Note: To activate the "Automatic Converter" service, preselect a handset number.

To deactivate this service, all preselected handset numbers must be deleted.

*EXAMPLE : Preselection Table

Slot	Selected Handset Number (code 35)	Predefined Handset Number (code 36)
1	0123456789*	0601020304*
2	0123456790*	0601020305*
9	0123456793*	0601020309*
10	0123456794*	0601020310*

By selecting handset number 0123456789, the gateway will place a call to 0601020304.

By selecting handset number 0123456790, the gateway will place a call to 0601020305, and so on.

When a number that is not listed in the "Selected Handset Number" column is dialed, the gateway will call that same handset number and automatically add it to the first available slot in the preselection table, using the same number as both "Selected Handset Number" and "Predefined Handset Number"

Automatic Handset Number Mapping:

- Enter the number to be called into a table slot using programming code 36.
- Enter the dialed number to be associated into the same table slot using programming code 35.

An SMS containing the dialed number and the preselected number is sent to the administrator's number (if configured) whenever a new association is created..

An SMS is also sent each time a selection different from the 10 predefined entries is made.

(4) MESURE DE NIVEAU DU SIGNAL

CODE

See programming tables via <u>HANDSET</u>, <u>SMS</u>, or <u>IP (MQTT)</u>

This procedure allows you to check the signal level of 2G (GSM), 3G (UMTS), or 4G (LTE) via the handset, by SMS, or over IP (MQTT).

Via handset:

- Pick up the handset and dial: **40#
- · Wait for the signal level to be announced.

The gateway will emit a number of short tones corresponding to the signal strength:

Tones	Quality			
No tone	No signal / No network			
1 tone	Low (non functional)			
2 tones	Medium (unstable or random)			
3 tones	Good (recommended level)			
4 tones	High			

The signal may vary; we recommend repeating code ****40**# 2 or 3 times with a few seconds between attempts to obtain a reliable reading.

Note: If the signal is low or medium, we recommend placing the gateway in a different location with better signal reception.

Note: If you receive the "No signal", tone, this means that the gateway has not been properly registred with the network operator.We recommend trying again after a few moments.

(5) <u>BATTERY ALERT (BATTERY CHARGE LEVEL</u> <u>MONITORING)</u>

CODE CODE

60	62	See programming tables via <u>HANDSET</u> , <u>SMS</u> , or <u>IP (MQTT)</u>
----	----	--

If low battery monitoring is enabled, the **PGA VoIP** constanly checks the battery charge level.

When the charge level drops below the threshold required to guarantee 3 hours of standby autonomy, a warning message is sent to a pre-registered number.

This information is transmitted either by SMS (by default) or to a **monitoring center (DTMF)**.

See «Signaling of external power faillure or battery charge level via a monitoring center (DTMF).

<u>Transmission via SMS (default)</u>:

The device sends an SMS when the first configured remaining autonomy threshold is reached. An SMS is then sent at each lower threshold.

For example, if the threshold is set to 3h, the first SMS will be sent when the remaining autonomy drops below 3h.

If the battery is not recharged, the device will send an SMS at 2h30, then 2h, then 1h30, then 1h.

The internal backup batteries ensure 3 hours of standby operation and 1 hour of talk time.

(6) EXTERNAL POWER FAILURE CONTROL

CODE

91

See programming tables via HANDSET, SMS, or IP (MQTT)

If the external power failure control is activated, the gateway continuously checks the external power supply (230Vac or 12Vdc)

If the power failure lasts longer than the predefined time interval, a notification SMS is sent with the following text message :

«Power Failure Detected»

If the external power is restored within a time interval equal to the predefined threshold, a new SMS is sent with the following text message:

«Power Failure Resolved».

(7) SIM CARD PROTECTION

CODE CODE CODE

92 93 94 See programming tables via <u>HANDSET</u>, <u>SMS</u>, or <u>IP (MQTT)</u>

WARNING: The PIN code configured in the gateway must match the one of the SIM card, otherwise the SIM may be blocked. However, to prevent the SIM card from being blocked, the device will stop any further PIN code attempts after the first failure. This allows you to insert the SIM card into a handset and still have 2 remaining attempts to enter the correct PIN code.

At device startup, several scenarios are possible :

- SIM card not locked by a PIN code :
 - The device starts normally.
- SIM card locked by a PIN code :
 - o The PIN code entered in the device is correct:
 - · The device starts normally.
 - o The PIN code entered in the device is incorrect :
 - All 4 LEDs turn on solid: refer to the section "Blocked SIM Card."
 - O No PIN code has been entered :
 - All 4 LEDs blink simultaneously: refer to the section "Locked SIM Card."

Blocked SIM Card

In this situation, it is necessary to insert the SIM card into a phone in order to verify that the PIN code entered in the device is correct.

It is also possible to disable the PIN code.

Locked SIM Card

In this situation, you must enter the PIN code using command 92 : (***92*<PIN code>**<PIN code>#)

- If the entered PIN code is correct, the device unlocks the SIM card and starts normally.
 The PIN code will then be saved in the device, allowing it to automatically unlock the SIM card during the next startup.
- If the entered PIN code is incorrect, the device switches to "Blocked SIM Card" mode.

Activating the PIN Code for the First Time on an Unprotected SIM

If the SIM card is not protected by a PIN code, it is possible to activate the PIN using command 93: (***93*1*<PIN code>#)

- If the entered PIN code is valid, it will be saved in the device, allowing automatic SIM unlocking during the next startup.
- If the entered PIN code is incorrect, the device switches to "Blocked SIM Card" mode.

Changing the PIN Code

The PIN code can only be changed when the SIM card's PIN protection is active.

To change the PIN, use command 94:

(**94*<old PIN>*<new PIN>*<new PIN>#)

(8) READING ADVANCED GATEWAY PARAMETERS

CODE

See programming tables via <u>SMS</u> and <u>IP (MQTT)</u> only.

This procedure allows you to check the advanced parameters of the device and the **PGA VoIP** GSM gateway.

Send the following SMS to the PGA: AN-PGA*C#1R

or :

*C# is the security code (by default, C = 0)

The **PGA VoIP** will send one or two SMS messages back to the number that made the request, containing the following data:



(9) READING BATTERY STATUS

	_	_
\mathbf{c}	П	
		г

6	See programming tables via HANDSET, SMS, or IP (MQTT)
O	occ programming tables via <u>minibolm</u> , on <u>minimorm</u>

This procedure allows you to check the battery status via your handset or by SMS reply.

The gateway emits a number of short tones corresponding to the number of guaranteed standby operating hours:

Handset	Standby Hours		
No tone	Battery missing or damaged		
1 BEEP	Up to 1h30min		
2 BEEPS	Up to 2h30min		
3 BEEPS	Up to 3h		
4 BEEPS	More than 3h30min		

SMS, IP	Battery status		
No tone	Battery missing or damaged		
Battery Low	25% (1)*		
Battery Medium	50% (2)*		
Battery Good	75% (3)*		
Battery Charged	100% (4)*		

^{*} Instruction 6 p.20

(10) REBOOT (RESTARTING THE DEVICE)

CODE

See programming tables via <u>HANDSET</u>, <u>SMS</u>, or <u>IP (MQTT)</u>

It is possible at any time, via handset, SMS, or IP, to restart the **PGA VoIP** without cutting the power:

Handset: ***8#

SMS: AN-PGA*0#8#

Note: Restarting the PGA VoIP does not alter its programming.

(11) FACTORY RESET

It is possible to restore the factory configuration at any time using the following code:

CODE

See programming tables via <u>HANDSET</u>, <u>SMS</u>, or <u>IP (MQTT)</u>

The command 9 (Factory Reset) restores all parameters to their default settings.

Handset: **9#

SMS: AN-PGA*0#9#

SERVICES

1 - Volte

Incoming Phone Calls

Allows you to answer incoming phone calls.

When a phone call is received, the (white) LED indicates the line status.

It briefly flashes 4 times every 4 seconds, as described in the "Indicators" section (see page 44), and the handset rings.

Pick up the handset to answer the call.

The (white) LED indicates the line status, lights up, and the communication with the recipient is established.

Outgoing Phone Calls (VoLTE)

Allows dialing a number over the 4G VoLTE telephone network (with 3G / 2G fallback).

Pick up the handset — the (white) LED indicating line status will light up, and the dial tone will be heard. Dial the handset number to call.

Note: If you hear a deterrent tone when picking up the handset, check the 4G signal strength and ensure the SIM card is functioning properly.

SERVICES

2 - Provisioning

Provisioning Server



- 1. Insert a Data/Voice SIM card (Minimum 5 MB)
- 2. Check the quality of the 4G signal
- **3.** At first power-up, and as soon as the internet connection is operational, the PGA VoIP gateway retrieves its configuration, as defined by the elevator installer and their call center, from the ANEP or Client provisioning server.
 - SIP Protocol
 - Inband / Outband Mode (RFC 2833 or 4733)
 - G711
 - VoIP Call Number
 - VoLTE Call Number (fallback mode)
 - Etc...

3 - Remote Configuration via IP



LED STATUS GUIDE

Green LED: Network Signal Strength (Blink every 200 ms)



2G, 3G, 4G (without VoLTE)

LED Status	Signal
Off	No signal
0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"	Low
0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"	Medium
0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"	Good
0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"	High

4G (with VoLTE)

LED S	Status										Signal
Off											No signal
0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Low
0"	1"	2"	3"	4"	5"	6" 	7"	8"	9"	10"	Medium
0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Good
0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	High

Red LED: Connected to the mobile network (Flashing every 100 ms)



PGA 02.01

LED Statu	S					Connection
On						Disconnected from network
0"	1"	2"	3"	4"	5"	Registered

Red LED: Alarm transmission type (Flashing every 500 ms)



PGA 03.01

LED Status						Alarm transmission					
Off											2G/3G/4G VoLTE
0" 	1"	2"	3"	4"	5"	6" 	7"	8" 	9"	10"	MQTT
Steady											VoIP

Red LED: Alarm transmission type (Flashing every 500 ms)



Coming soon

LED Status							Alarm transmission				
Off											2G/3G/4G VoLTE
0"	1"	2"	3"	4" 	5"	6"	7"	8"	9"	10"	MQTT
Steady	,										VoIP

Blue LED: Power Status



Battery unplugged (100 ms interval)

LED Status	Battery Life
Off	Less than 1 hour
0" 1" 2" 3" 4" 5"	1h to 1h59 min
0" 1" 2" 3" 4" 5"	2h to 2h59 min
0" 1" 2" 3" 4" 5"	3h to 3h29 min
0" 1" 2" 3" 4" 5"	More than 3h30

Battery connected (Flashing every 200 ms)

LED S	LED Status								Battery Charge		
On											Battery damaged or disconnected
0"	1"	2"	3"	4"	5"	6" 	7"	8"	9"	10"	Low
0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Medium
0"	1"	2"	3"	4"	5"	6" 	7"	8"	9"	10"	High
0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	Full

White LED: Line Status (Flashing every 100 ms)

LED Status	Line Status
On	Line busy
Off	Line not picked up
0" 1" 2" 3" 4"	5" Incoming call

Special Patterns

PIN Code (Flashing every 100 ms)

LED Statuses		Description
0" 1" 2" 0" 1" 2" 0" 1" 2"	(GREEN LED) (RED LED) (BLUE LED)	SIM card locked, 3 attempts remaining
0" 1" 2"	(WHITE LED)	
ALL LEDs ON		SIM card locked, less than 3 attempts left (unlock with mobile phone)

Manual Factory Reset (Via Jumper, Flashing every 100 ms)

LED Statuses		Description		
0" 1" 2" 0" 1" 2"	(GREEN LED)			
0" 1" 2"	(RED LED)	Factory reset warning		
	(BLUE LED)			
0" 1" 2"	(WHITE LED)			
0" 1" 2"	(GREEN LED)			
0" 1" 2"	(RED LED)	Waiting for jumper removal before reboot		
0" 1" 2"	(BLUE LED)	vvailing for jumper removal before reboot		
0" 1" 2"	(WHITE LED)			

TROUBLESHOOTING

This chapter lists the most common issues that may occur.

Before contacting technical support, please perform these simple checks.

Condition	Possible Causes	Solutions
Device does not start	- No external power - Battery not connected - SIM card improperly inserted	- Check power supply - Check battery connection - Check SIM card insertion
No signal (Green LED off)	- Antenna not connected - Poor reception - SIM card not activated	- Check antenna connection - Improve antenna placement - Contact SIM provider
No VoLTE (Green LED flashing)	- SIM card not VoLTE-compatible - Weak 4G signal	- Using a 4G VoLTE SIM card - Improve antenna placement
No VoIP (Red/Orange LED off or flashing)	- SIM card without 4G data (Min. 5MB)	- Using a 4G data SIM card (Min. 5MB)
Unable to make outgoing calls	- Line is busy - SIM card is blocked	- Try again later - Check SIM card status - Contact mobile operator
Incoming calls not received	- Device restarting or in standby - SIM not registered on the network	- Wait for restart to complete - Check signal and SIM registration
SMS not sent/received	- No network - SMS service not enabled on SIM card	- Check network connection - Contact mobile operator
Abnormal LED flashing	- SIM card locked - Incorrect PIN entered - System error	- Enter correct PIN code (command 92) - Test SIM in a mobile phone - Contact ANEP support
Frequent device restarts	- Power instability - Faulty battery - System error	- Check power supply - Replace battery - Contact ANEP support

NOTES

ANEP applies a method of continuous development, therefore, ANEP reserves the right to make changes and improvements to any product described in this document, without notice.

ANEP cannot under any circumstances be held liable for any loss of data, as well as any particular damage or incident, resulting from poor implementation or non-compliant use of the product.

The contents of this document are provided "as is". No warranty of any form, express or implied, is made as to the accuracy, reliability, or content of the document. ANEP reserves the right to revise this document or withdraw it at any time without notice.

WARRANTY

This product is guaranteed for <u>3 years</u> from the date of invoicing of the product, with the exception of batteries and cells which are guaranteed for <u>6 months</u>.

However, this guarantee does not apply in the event of:

- Use that does not comply with the instructions in this manual.
- Deterioration from a cause external to the product (act of vandalism, fire, flood, storm, overvoltage...).
- Installation carried out by an unqualified installer not approved by ANEP.
- Modifications or repairs carried out by entities not approved by ANEP.
- Opening of the product by a non-ANEP approved person.



<u>IMPORTANT</u>

Particular care and rigor must be taken in the cabling and connection, in order to obtain the best sound results and optimal reliability of the product.

The equipment must be connected, installed and programmed according to the rules of the trade.

THE AFTER SALES SERVICE IS PROVIDED BY



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