TOPKODAS PROGATE

Installation & Programming Manual



Cellular Gate controller PROGATE

Multifunctional device: access control + security + home automation This manual includes steps to install, set up and use your system.

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DESCRIPTION

PROGATE is a versatile gate controller with a relay output and programmable inputs or outputs, supporting up to 800 remote users. It enables remote control of automatic gates and other equipment, providing high-level security and automation for residential homes and other secure areas.

Users can operate devices via the SERANOVA app, phone calls, or SMS. The controller recognizes up to 800 user phone numbers and can send customizable SMS alerts to up to 8 administrators about input and output status changes. It can also send event messages to a security company receiver.

PROGATE is user-friendly and can be programmed remotely via Internet Cloud Service or USB using the SERA2 software.

FEATURES

- Network
- 2G or 4G LTE modem 0
- **Remote control**
 - With Android/IOS/WEB application SERANOVA. 0 0
 - With SMS messages.
 - With phone call 0
- Notifications
 - Push Notifications to Android/IOS application 0 SERANOVA.
 - SMS messages. 0
 - Autodial phone call 0
- Reporting events to Central Monitoring Station (CMS) Communication via SIA IP DC-09 standard protocol
- Outputs
 - RELAY 0
 - I/O1 (1A) 0
 - I/O2 (1A) 0
 - 1W, 10mA, Max Voltage 3.3V! 0
- Inputs
 - IN1. IN2 0-30V 0
 - 0 I/O1, I/O2 0-30V
 - 1W 1-wire bus Up to 32 sensors, temperature, humidity 0 etc.
 - Digital input max 3.3V 0
- Events log buffer. 3072 events
- USERS Up to 800 app/iButton/ RFID keycard/code.
- Wiegand keyboard.
- In-field firmware upgradeable via USB or Remote using SERA2 software

DOWNLOAD SERANOVA APP



GET IT ON











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1.1 Specifications



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Parameters of built-in GSM module:

- Quad-band (850/900/1800/1900 MHz)
- Optional 3G ,4G LTE bands
- Transmitting power
 - GSM/GPRS power class:
 - EGSM900: 4 (33dBm±2dB)
 - DCS1800: 1 (30dBm±2dB)
- EDGE power class:
 - EGSM900: E2 (27dBm±3dB)
 DCS1800 : E1 (26dBm+3dB/-4dB)
- LTE power class: 3 (23dBm±2.7dB)
- Sending of SMS messages
- Receiving of calls and dialing
- Mobile Data via GPRS/LTE network

Module control via:

- Android, iOS, Web, SERANOVA app
- SMS message 800 users
- Short call DIAL 800 users
- Maxim-Dallas iButton key (iButton DS1990A – 64 Bit ID)) 800 users.
- Wiegand keypad code or RFID keycard or key fob 800 users

Outputs:

- RELAY, 1 A 30 V DC, 0,5 A 125 V AC
- I/O1,I/O2 Open Drain (1A) 30V
- 1W (10mA Max voltage 3.3V)!
- (Programmable selectable input or output)
 All outputs can be controlled via short call DIAL or via SMS message, mobile, web app. This feature may be used for gate opening.
- Output alarm parameters may be programmed.
- Programmable algorithms for outputs operation: Access Control,CTRL/SMS/DIAL, SIREN, BUZER, ARM state, inverting, pulse mode

Inputs:

- Analog inputs In1, In2: 0-30V
- Analog inputs I/O1, I/O2: 0-30V (Programmable selectable input or output)
- SMS text for input alarm and restoreBurglary alarm zones. Input type
- NC/NO/EOL/EOL+TAMPER 5.6K + 5.6K Algorithm for zones operation: delay,
- interior, instant, 24 hours, silent, fire
- Response time;
- Time of additional response;
- Commutation of selected output

Wiegand interface D0/D1:

DATA0/DATA1, RFID reader, Keyboard.

1-Wire bus Digital I/O 1W:

- Programmable optional digital input or output
- Max. Voltage 3.3V
- Dallas 1-Wire Bus, DS18b20, DS1990A
- Aosong 1-Wire bus Humidity Sensor
 AM2302 DHT22 AM2305 AM2306
 AM2320 AM2321
- The total length of the bus up to 100m.

Aux power source +5V:

Used to power 1-Wire Bus sensors, DS18b20, DS1990A, Aosong 1-Wire bus Humidity Sensor AM2302 DHT22 AM2305 AM2306 AM2320 AM2321

- Voltage 5V
- Current limit 100mA

Power supply voltage:

- DC 10-30V
- AC 12-24V
- Min 0.5A
- Max. Allowed ripple DC voltage 100mV

Consumption current:

- In standby mode less than 50 mA.
- In dialing or SMS/GPRS sending mode less than 300 mA.

Events Log:

Nonvolatile flash events log 2048 events

Environmental parameters:

- Storage temperature range from -40 to +85 °C / -40 to 185 °F
- Operational temperature range from -30 to +75 °C / from -22 to 167 °F
- Max relative humidity under +40 °C / 104 °F 95%

Package weight 90g Module weight: 70g

Overall dimensions of the module: 73x62x26mm

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Term	Description
Alarm Log	Contains information about alarms that are currently active on the system or information about alarms that have been raised and then resolved on the system. This log can be useful in analyzing problems and trends in the system.
Arming/Disarming Authorized user	A process of enabling/disabling system's security. It is a person whose mobile phone's number is entered in PROGATE module. Several authorized users with the same rights may be entered into the module.
Backup battery	The secondary power source of the system. In case of a main power failure, the backup battery will take over.
Bell squawk	If enabled, the siren/bell indicates the completed system arming and disarming process (except the arming in STAY mode). After the system is successfully armed, the siren/bell will emit 2 short beeps and 1 long beep after the system is disarmed. By default, the parameter is disabled.
Bypass/Activate Zone	Zone bypassing allows the user to deactivate a violated zone and arm the system without restoring the zone. If a bypassed zone is violated or restored during exit/entry delay, or when then system is armed, it will be ignored. The zone will remain bypassed until the system is disarmed. Zones can only be bypassed and activated when the system is not armed.
Caller ID	Caller's identification
СОМ	Negative power supply terminal.
Configuration	Programming of the settings, which will define the operation of the item. For example, user's telephone numbers, set-up of periodicity for sending SMS message, input names etc.
CMS	Central monitoring station
DIAL	The system makes a call to the number specified.
Diagnostic Tool	When using Configuration tool software, you may monitor system inputs/ outputs, view changes of peripheral devices, instantly configure necessary options, for example, enabling/disabling PGM outputs, etc.
Entry Delay	The system initiates the entry delay countdown if a Delay type zone is violated. The countdown is indicated by short beeps emitted by keypad buzzer and by steady beep emitted by system's buzzer. The indication is intended to advise the user that the system should be disarmed. If the system is disarmed before the entry delay expires, no alarm will be caused.
EOL	(End of line resistor) input type with resistor.
Event	The information that the user receives.
Event Log	A list of system events that is uploaded from the device's memory to the configuration software for further analysis. The system logs all information about system configuration, system actions and info messages.
Exit Delay	A period of time intended for user to leave the secured area. The system begins the countdown after the arming process initiation.
Fault	A specific problem or error that prevents the system from working properly. The system comes equipped with self- diagnostic feature allowing to indicate the presence of any system fault and send SMS text message notification to the listed user phone number.
iButton key	A unique 64-bit ID code containing chip enclosed in a stainless steel tab usually implemented in a small plastic holder. The module supports up to 800 iButton keys each holding a unique identity code (ID), which is used for system arming and disarming.
Installer	a person provided with INST (installer's) password
Master/User Code	Allows to carry out system arming/ disarming as well as minor system configuration and control
Normally closed (NC)	It is a switch that passes current until actuated.
Periodic Test Event	Provides the following information on alarm system: date & time, status (armed/disarmed), GSM signal strength, mains
	power supply status, temperature value measured by primary and secondary temperature sensors (if any).
	"high").
PGM output	A PGM output is a programmable output that toggles to its set up state when a specific event has occurred in the system or if the user has initiated the PGM output state change manually.
Ping period	Sets period of time defining how often the module sends ping data packet to the server.
Service messages	ARM/DISARM, test, resetting of the system.
SSR	Solid State Relay
SMS forward	System can re-sent all incoming SMS messages to the specified users. It is useful if the GSM operator of the inserted SIM card sends some useful information (SIM card validation or payment account status and etc.) or it is necessary to monitor all incoming SMS messages by specified user.
User	It is a person being aware USER password.
Zone	Detection devices such as motion detectors and door contacts are connected to the alarm system's zone terminals.
Zone state/status	Zone status is a position of a certain zone being enabled or disabled. Meanwhile, zone state points out the condition of a certain zone, which can either be violated (i.e. In case of alarm) or restored.
+V	Positive power supply terminal.



	USB
Topkodag) PROGATE GSM Controller Rt	REG DATA PWR ELAY
S S S S S S S S S S S S S S S S S S S	

PROGATE module - 1 pcs

Shipping Package - 1 pcs

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Package content may be vary without a notice. Ask the seller before buying!





Mini USB cable



Din Rail mounting adapter



Cellular Antenna 2.5 dBi L-Type SMA Connector



Digital Temperature/Humidity Sensor Am2305



iButton DS1990A-F5+ key



iButton probe with LED indicator



4G LTE Antenna 3dBi SMA male Adhesive Mount 2m Cable



Waterproof Digital Thermal Probe or Sensor DS18B20



Plug-in type Switching Power Supply 12V/1A AC/DC



4G LTE Antenna 7dBi SMA male Magnetic 2m Cable



4G LTE Antena 5dBi SMA male Magnetic 2m Cable

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		2	3
Com			-

Wiegand keypad & RFID reader





Figure 1 General view of the module PROGATE

1	ANT	GSM antena connector
2	SIM	Nano SIM holder. Push- Push Type
3	USB	Mini USB programming connector
4	REG (yellow)	See table below
5	DATA	See table below
6	PWR (green)	See table below
7	RELAY (blue)	See table below
8	I/O Connector	Power supply and inputs, outputs connector.

Do not locate SIM card with force, because you may damage SIM card holder

1.5 Meaning of LEDs and contacts

Т	able 3 Meaning of LE	<i>EDs</i>	
	Name	Indication variations	Meaning
	DM/P (groop)	Watchdog blinking, on 50ms, and turns off after 1000ms.	The module is functioning.
	FWR (green)	Off	The module is out of order or no voltage
		Lights continuously	Modem has been registered to the network
		Flashes, remains lit for 50ms, turns off for 300ms	Modem is being registered to the GSM network.
	REG (yellow)	Blinking fast, remains lit for 50ms turns off for 50ms	PIN code of SIM card error. PIN code request should be removed
		Off	Modem failed to register to the network.
	DATA (red)	Lights continuously	The memory of the module contains unsent reports
	DATA (led)	Off	Data status is OK. All reports has been send.
	RELAY (blue)	ON/OFF	Relay switched ON/OFF

Table 4 Terminal block. Contacts.

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Name	Optional functions and Description										
	DC	10-30V									
AC/DC	AC	12-24V									
	Max	0.2A									
NC, C, NO	Relay Output 1A 30 V DC, 0.5A 125 V	/ AC									
		Input with pull up resistor 10K to the VD+									
	Programmable functions	Open drain output 30V/1A									
1/01-1/02		Analog voltage input 0-30V									
	Max available voltage	30V									
		Input/Zone with pull up resistor 10K to the VD+. Used for gate position or security sensors									
I/O1-I/O2 IN1/D0 IN2/D1 COM 1W	Programmable functions	Can be configured NC/NO/EOL/EOL+Tamper									
IN2/D1		Wiegand interface. Inputs D0 and D1 used for wiegand RFID reader, keypad									
	Max available voltage	30V									
COM	Negative supply terminal for keyboard(s)	, indicators and sensors.									
		Digital output (Max 3.3V)									
AC/DC NC, C, NO I/O1-I/O2 IN1/D0 IN2/D1 COM 1W +5V	Brogrammable functions	Digital input (Max 3.3V)									
		Dallas 1-Wire bus. For iButton DS1990A and temperature sensors DS18B20									
		Aosong 1-Wire bus. Humidity Sensor AM2302, DHT22, AM2305, AM2306									
	Max available voltage	+3,3V									
	Max available current	10mA									
	Power supply for external temperature, h	umidity sensors									
+5V	Max available voltage	+5V									
	Max available current	100mA									



WIRING & INSTALLATION 2



This Installation & Programming manual provides the basic installation, wiring and programming information required to program the module PROGATE and connect all third party devices to the module.

- Before beginning installation, make sure that you have the necessary components:
- 1. USB Mini-B type cable for configuration.
- 2. Cable consisting of at least 4 wires for connecting the controller.
- 3. Flat-head 2.5 mm screwdriver.
- 4. External GSM antenna if reception is weak in the area.
- 5. Activated nano-SIM card (can have turn off PIN code requests).
- 6. Instruction manual for the automatic gate to which the GSM gate controller is about to be connected.
- Order the necessary components separately from your local retailer

2.1 Fastening

Mounting on DIN rail



Fasten the base of the case in the desired place using screws



Figure 5Fasten the base of the case

2.2 Preparation





2.3 Wiring PROGATE to the gate control unit



Please note that AC relays must be used if the voltage is AC. Depending on the gate voltage, use 12 V AC or 24 V AC.

Automatic gates come with a control input for connecting the PROGATE relay, enabling operation through pulse or latch signals. They also have a position sensor output for gate status indication. As shown in the diagram, relay K1 links to the gate's voltage output. When the gate opens, K1 activates PROGATE's IN1 input, providing gate status visible in SERANOVA.

More information:

Quick start PROGATE: <u>https://www.topkodas.lt/Downloads/media/Manuals/PROGATE_QS_EN.pdf</u> Quick start SERANOVA APP: <u>https://youtu.be/Benf6xKcnjM</u>

Quick start Control via call, SMS: https://www.topkodas.lt/Downloads/media/Manuals/PROGATE_Control_sms_call_QS_EN.pdf



2.3.1 **Connecting PROGATE to Automatic Gate with Magnetic Sensor**



This wiring diagram and settings have been tested with the BFT DEIMOS BT series sliding gate automation with magnetic position sensor.

- Connect the PROGATE relay contact and power supply to the control unit according to the wiring diagram.
- Connect the Closed/Open terminals of the gate position magnetic sensor to IN1/IN2 of PROGATE as shown in the diagram. If necessary, add external capacitors C1/C2 of 4,7-10uF to eliminate pulsations on the inputs.
- SERA2>Inputs set IN1/IN2 internal pull-up resistors off.
- SERA2>Inputs set NC/NO input level ADC trigger to 500-800. The ADC value may be differ depending of magnetic sensor model. Run SERA2>Testing&Monitoring to check real ADC valued during gate position sensor is opened/closed. The ADC trigger value is proportional to the system voltage of 12 V.

This means that if you need to activate an input with an ADC value of 2000 and the system voltage is 24 V.

ADC=2000/(24/12)=1000. You need to enter value 1000.

- Set input names and alarm/restore text if
- needed. It will be used for SMS and event log.
 - In SERANOVA output settings set:
 - Name, Icon. 0
 - Mode [Pulse] 0 Pulse time 2s 0
 - Reflect output state by Input1 0



정말 Write [F6] 🛑 Update 🧐 H Cone Mode: Level	elp	2.2														
Cone Mode: Level	✓ EOL Type:	2.2k														
Cone Mode: Level	 EOL Type: 	2.2k														
			K+2.2K	~		NC leve	6 F	300								
							L									
	IN1/IN2 PullUp	, П				NO leve	e e	300								
no Zano Hardwara Ionut	Definition	Tuno	CID	Runnen T	ormor	Chutdowen	Force 6	Ronart B	Donort D	Speed	Report	CMC Text on Blown	SMC Tout on Postoro	filoren Limit	OUT	P. dolou
zorie naruware input	Denniuon	Type	CID	Dypass 1	amper .	shutuowin		Ceport A		Speeu	Nepear	SWIS TEXL OF MIGHT	SWS TEXT OF RESLOTE	Alarmit	001	A ueldy
PROGATE, IN1	24 hours (silent)	NC	150		L	V		V	V	300ms	300s	is fully opened	is partial opened	10	N/A	
PROGATE, IN2	24 hours (silent)	NO	150			v		v	V	300ms	300s	is partal opened	is closed	10	N/A	
Zone Disabled	24 hours (safe)	NO	133		Γ					300ms	600s	Case Tamper alarm	Case tamper restore	5	N/A	
Zone Disabled	24 hours (safe)	NO	133		Γ					200ms	600s	Alarm 4 Text	Restore 4 Text	5	N/A	
Zone Disabled	24 hours (safe)	NO	133							200ms	600s	Alarm 5 Text	Restore 5 Text	5	N/A	
a	ame Zone Hardware Input PROGATE, IN1 PROGATE, IN2 Zone Disabled Zone Disabled Zone Disabled	ame Zone Hardware Input Definition PROGATE, IN1 24 hours (silent) PROGATE, IN2 24 hours (silent) Zone Disabled 24 hours (safe) Zone Disabled 24 hours (safe) Zone Disabled 24 hours (safe)	ame Zone Hardware Input Definition Type PROGATE, INI 24 hours (silent) NC Zone Disabled 24 hours (silent) NO Zone Disabled 24 hours (safe) NO Zone Disabled 24 hours (safe) NO	ame Zone Hardware Input Definition Type CID PROGATE, IN1 24 hours (silent) NC 150 PROGATE, IN2 24 hours (silent) NO 150 Zone Disabled 24 hours (safe) NO 133 Zone Disabled 24 hours (safe) NO 133	ame Zone Hardware Input Definition Type CID Bypass T PROGATE, N1 24 hours (silent) NC 150 Zone Disabled 24 hours (silent) NO 133 Zone Disabled 24 hours (safe) NO 133 Zone Disabled 24 hours (safe) NO 133	ame Zone Hardware Input Definition Type CID Bypass PROGATE, IN1 24 hours (silent) NC 150 PROGATE, IN2 24 hours (silent) NO 150 Zone Disabled 24 hours (safe) NO 133 Zone Disabled 24 hours (safe) NO 133 Zone Disabled 24 hours (safe) NO 133	ame Zone Hardware Input Definition Type CD Bypass Tamper Shudown PROGATE, IN1 24 hours (silert) NC 150 [ame Zone Hardware Input Definition Type CD Bypass Tamper Shutdown Force F PROGATE, IN1 24 hours (silent) NC 150 Image: Comparison of the temperature of temperature o	ame Zone Hardware Input Definition Type CID Bypass Tamper Shutdown Force Report A PROGATE, IN1 24 hours (silent) NC 150 Image: Complexity of the	ame Zone Hardware Input Definition Type CD Bypass Tamper Shutdown Force Report A Report R PROGATE, IN1 24 hours (silent) NC 150 V V V V PROCATE, IN2 24 hours (silent) NO 150 V V V V Zone Disabled 24 hours (safe) NO 133 V V V V Zone Disabled 24 hours (safe) NO 133 V V V V V V V V V V V V V V V V V V	ame Zone Hardware Input Definition Type CID Bypass Tamper Shuddown Force Report R Speed PROGATE, IN1 24 hours (silent) NC 150 Image: Cone Disabled Image:	ame Zone Hardware Input Definition Type CD Bypass Tamper Shutdown Force Report A Report A	ame Zone Hardware Input Definition Type CID Bypass Tamper Shuddown Force Report R Speed Repert SMS Text on Alarm PROGATE, IN1 24 hours (silent) NC 150 Image: Concent of the state of	ame Zone Hardware Input Definition Type CD Bypass Tamper Shutdown Force Report R Speed Repeat SMS Text on Alarm SMS Text on Restore PROGATE, IN1 24 hours (silent) NC 150 Image: Cone Disabled V V 300ms 300ms is fully opened is partial opened is closed Zone Disabled 24 hours (safe) NO 150 Image: Cone Disabled 24 hours (safe) NO 133 Image: Cone Disabled 200ms 600s Alarm 5 Text Restore 5 Text	Alarm Single For any Single of the state of the st	ane Zone Hardware Input Definition Type CD Bypass Tamper Shutdown Fore Report R Speed Repeat SMS Text on Alarm SMS Text on Restore Alarn Lint OUT PROGATE, IN1 24 hours (silent) NC 150 Image: Concent of the state of t



3.1 Preparation

- Screw on the gsm antenna.
- Insert the SIM card in the SIM card holder. (Ensure that PIN request function is disabled. Ensure that mobile internet service (mobile data) is enabled if mobile app or IP connection with CMS will be used)
- Connect power supply.
- Wait for the controller to register to the GSM network

3.2 Control with free short call

The first one to call the controller will become the system administrator/owner. The controller automatically rejects the call and turns on the RELAY output for 2 seconds and will be the only one who can administer and control the controller with free short call, SMS commands. When calling PROGATE for the first time, the phone number is stored in the module memory automatically. This means that it will be possible to control the first output of RELAY with a short, free call. If this is enough, PROGATE can be installed without additional configuration.

3.3 Control with SERANOVA (Android/iOS) app

With the **SERANOVA** app, users will be able to control gates and other devices remotely, as well as administer users, view system status and push notifications, and view a log of all events.

3.3.1 Steps to get started with SERANOVA

To use the **SERANOVA** app or the **SERA2** remote connection. The **[SERA cloud service]** needs to be activated by using the **SERA2** or SMS command e.g. **[NST000000_010_1]**. *By default* **[SERA cloud service]** *service is activated*.

Imortant! If there is no data plan on your SIM card. **[SERA Cloud service]** must be deactivated. Using **SERA2** or SMS command: INST000000_010_0 Otherwise the module will stop working due to a lost data connection.

SMS command to set APN DATA/GPRS/LTE network settings. Some networks require exact APN name to be entered, otherwise data connection will not work. Network APN can be configured using SERA2 via USB or following SMS command:

INST000000_008_APN#LOGIN#PSW# where: APN=the name of network APN default="internet", LOGIN=login leave empty if not used; PSW =password leave empty if not used. e.g.INST000000_008_internet### where APN='internet'; no LOGIN; no PSW

Install the app. Scan a QR code with your phone or start it on the web.
 Free WEB SERANOVA app <u>https://seranova.eu/login</u>













SERANOVA app for iPhone iOS: <u>https://apps.apple.com/app/SERANOVA-smart-home/id1596644632?platform=iphone</u> Android SERANOVA app: <u>https://play.google.com/store/apps/details?id=com.SERANOVA.cloud&hl=en&gl=US</u>

2. **Register** or sign in to your account. 3 To add a system the device's IMFI

- To add a system, the device's IMEI is required. Obtain the IMEI by:
 - Making the initial call to the device. The first caller becomes the owner and administrator and receives an SMS with the IMEI from PROGATE. Copy the IMEI, which serves as the module's UID and allows connection to the free SERANOVA app.
- Sending an IMEI request SMS command INST000000 100 1 to the controller's SIM card number. The sender will receive an SMS response with complete device information, including the IMEI.
- Reading the IMEI via USB using the SERA2 configuration program from System Options > System Info

4. Add new system to the app

- Enter the IMEI (UID) you copied from the SMS or SERA2 system information
- Enter App Key (default: 123456).
- Enter the User Access Code (default: 123456). Without a user access code, the system cannot operate. This code serves as both the user ID and password within the system. Each user must have a unique code, which is located in the user table. The system administrator creates and provides these codes to each user.
- Phone number of system
- Enter system name.
- Press [SAVE].
- 5. How to add a new user
 - New users must download the SERANOVA app. Create an account, login with his email and password
 - System owner or administrator goes to SERANOVA> Menu> Users> [Add new User]
 - To enable a user to log in to the system, the owner must enter the user's email and user code (with which the system will be operated. This is the user ID and password). This is enter the user email that was used to create the SERANOVA account. Enter User code (Default 1234), Phone number, Set Output for control, User privileges: admin or user
- Enter a valid email address of a user who already has a SERANOVA account. The system will be automatically added to the user's
- account. If the user is added without a valid SERANOVA account email. The user can create a SERANOVA account later and add the system manually.



1.Install SERANOVA app 2.Create account



 Go To SERANOVA> Menu> Outputs. Edit settings





4. The first person to call the PROGATE SIM card number becomes the owner and administrator.



9. Select pulse or level





5. PROGATE sends a message with the IMEI

6. Enter the IMEI and App Key (Default 123456), <u>Enter User</u> access code (Default 123456)



10. Go to SERANOVA> Menu> Users: Press [Add New User] Owner or administrator can add other users or administrators



11. Enter the email used to create the SERANOVA account, along with your unique user code. Please note, system control is not possible without this user code.

How to add additional system (unlimited number) to SERANOVA app:

Go to SYSTEMS, Choose Add new system and enter the controller Unique ID (IMEI) number. IMPORTANT: When adding the controller to SERANOVA app:

- . The [Sera Cloud Service] must be turned on.
- 2. The power supply must be connected
- 3. Device must be registered in to network and have mobile data plan

4. Set valid **APN** of the network. (default: 'internet') More help how to setup device and app could be found here:

VouTube^{LT} QUICK START SERANOVA app

https://youtu.be/Benf6xKcnjM





3.4 Control with SMS messages

Control the RELAY output with this SMS command: Activate or deactivate selected output USER123456_021_N#ST

021= command code (Activate or deactivate selected output N) N = output number ST= output mode: 0 - deactivated output, 1- activated output

E.g. send SMS: USER123456_021_1#1 to activate OUT1.

Output pulse activation for the time interval USER123456_022_N#TIME#

N = output number 1-32; TIME = 0-999999 Time interval in seconds for the output activation.

e.g. USER123456_022_2#5# Activate OUT2 for 5 seconds

3.5 Configuration methods

It is possible to configure device in following methods:

- 1. SERA2 software via USB
- 2. SERA2 remote connection
- 3. SERANOVA app
- 4. SMS text messages. For more details, see: 10 SMS Commands for remote control and configuration.

SERA2 software

- SERA2 software is intended for PROGATE configuration locally via USB port or remotely via 'SERA Cloud Service' internet GPRS/LTE 2G/3G/4G network. This software simplifies system configuration process. SERA2 software is free, which you can
- download from our website: www.topkodas.lt

SMS text messages

In order to configure and control the device by SMS text message, send the text command to the PROGATE SIM card from one of the listed administrator phone numbers.

SERA could service 3.5.1

SERA Could Service - is used for remote connection to device via internet using SERA2 or SERANOVA app.

Imortant! If there is no data plan on your SIM card. **[SERA Cloud service]** must be deactivated. Using **SERA2** or SMS command. INST000000_010_0 Otherwise the module will stop working due to a lost data connection.

To connect to device using [SERA Could Service] is need to have UID=IMEI of device and AppKey (Default 123456)

- Change default App Key (Default 123456). SERA2> GSM Communication> Sera Cloud Service 1
- Enter App Key for the remote connection via SERA2. Go to SERA2> Settings Enter the same App Key as in the SERA2> GSM 2 Communication> Sera Cloud Service
- To establish a remote connection with the device, the App Key of the device and the SERA2 or SERANOVA must match.

③ SERA2 [PROGATE]									
📄 <u>F</u> ile 🔏 <u>S</u> ettings 🔒 <u>D</u> evi	ces <u>अ</u> ead (F5)	🚰 <u>W</u> rite [F6]	🛑 Update 🐧	<u>ه H</u> elp					
	Event Reporting/Comm	unication				_			
GSM Communications	SMS/DIAL reporting	Custom SMS Text	Network / SIM C	Card CMS Reporting	SERA Cloud Servic	е			
Users/Access control									
Inputs/Burglar Alarm Zones			SERA2						
Outputs (PGM)					000	0100			
- Automation/Sensors	Enable	⊡ ⊡s	📑 File 🔌 Set	ttings 🚠 Devices	실 Read [F5]	🚰 Write [F6] 🔰	📕 Update 🛛 🍤 Help		
Event List	ID or Domoin:	cloud.topkoda:							
	ie or Domain.		Program	Settings					
Firmware	Remote Port:	10000							
	APP Key			English					
			Language:	Englism	~	✓ Chei	ck for Updates Automatically		
Erter the same APP Kay as prog Chud Service) Default APP Kay (23456)	no • 20 Dema User •		Remote o IP/Domain Port Device U	connection to the devic	e over internet cloud.topkodas.lt 10001	Select unique	Use default SERA Cloud Server	rice In the list of connect	ion history
Default AFP Ney, 120400			Device 0						
App Key * 123456	•	X	System M	vame (Optional)					
Object Address TCPKODAS office	676		App Key		•••••			[
User Access Code		l.					•		

Figure 6 GSM Communication > Sera Cloud Service > App Kev

3.5.2 **Configuration using SERA2 software**

With SERA2 software you can change the controller's settings (if default settings are not enough)

- Download and Install and open free SERA2 configuration & Diagnostic software: https://www.topkodas.lt/Downloads/SERA2_Setup.exe
- Connect the controller to a computer using a mini USB cable.
- The program will automatically recognize the connected device and will automatically open the controller configuration window.
- [Menu > Read] will read configuration of device and show current settings of device.
- [Menu > Write] will save the settings made in the program to the device.
- [Menu > File > Save] will save the settings into a configuration file. You can upload the saved settings to other Devices later. This allows to quickly configure multiple devices with the same settings.
- [Menu > File > Open] will allow to choose a configuration file and open saved settings.
- If you want to revert to default settings, go to Update in the command line and update FW. Or press [Menu->File->Restore Default]

SERA2 [PROGATE]

📄 File 🔌 Settings 🛛 🔒 Devi	ices 👸 F	Read [F5] 🛛 🚦	🖏 Write (F6) 🛛 🛑 Update 🔞	elp															
- System Options	Zones																		
- GSM Communications			Keyswitch Zone Mode:	Level 🗸															
- Users/Access control	Settings																		
– Inputs/Burglar Alarm Zones	oounigo																		
- Outputs (PGM)	Zn	Zn Name	Zone Hardware Input	Definition	Туре	CID	Bypass	Tamper	Shutdown	Force	Report A	Report R	Speed	Repeat	SMS Text on Alarm	SMS Text on Restore	Alarm Limit	OUT I	R delay
- Automation/Sensors	1	Gate	PROGATE, IN1	24 hours (silent)	NC	150			V		V		300ms	300s	is fully opened		10	N/A	
-Event Summary	2 🚺	Gate	PROGATE, IN2	24 hours (silent)	NO	150			V		V	V	300ms	300s	is partal opened	is closed	10	N/A	
- Testing&Monitoring	2 🔀		Zone Disabled	24 hours (safe)	NO	133							300ms	600s	Case Tamper alarm	Case tamper restore	5	N/A	
Firmware	2 4		Zone Disabled	AC power loss	NO	301	Γ						200ms	600s	Alarm 4 Text	Restore 4 Text	5	N/A	
	2 🔀	Zone Name 5	Zone Disabled	24 hours (safe)	NO	133	◄		V	v	~	V	200ms	600s	Alarm 5 Text	Restore 5 Text	5	N/A	

Figure 7SERA2> Inputs/ Burglar Alarm Zones

SERA2 [PROGATE]																			-
📄 File 🔌 Settings 🏼 🔒 Dev	vices 📱 Read (F5) 🛛 📓 Write (F6)	🛑 Update 🔞 He	lp																
- System Options	Outputs																		
- GSM Communications	Outputs Scheduler Holidays																		
- Users/Access control - Inputs/Burglar Alarm Zones														Sch	edules	:			
- Outputs (PGM)	ID Output Location in Hardware	Output Name	Out definition	No	Mode	Timer	Invert	Pulsating	ON Time	OFF Time	Count	Input	1 2	3 4	5	6 7	8 [ON] Event Text	[OFF] Event Text	E R
- Automation/Sensors	1 PROGATE, RELAY	Gate	Access Control	N/A	Pulse	2s			100ms	100ms	0	N/A					PGM control pulse	OFF Text	
Event Summary	2 PROGATE, IO1 (1A)	OUT2	Disable	N/A	Steady	10s			100ms	100ms	0	N/A					ON Text	OFF Text	
- Testina&Monitorina	3 PROGATE, IO2 (1A)	OUT3	Disable	N/A	Steady	10s			100ms	100ms	0	N/A					ON Text	OFF Text	
Firmware	4 PROGATE, 1VV (10mA, Max Voltage	e COUT4	Disable	N/A	Steady	10s			100ms	100ms	0	N/A					ON Text	OFF Text	

Figure 8SERA2> Outputs (PGM)

O octorie [i i i to or ine]												
📄 File 🔌 Settings 🛛 🔒 Devic	es 👸 l	Read (F5) 🛛 📓 Write (F6) 💼 Upo	late 🔞 Help									
- System Options	Remote C	ontrol Users table										
- GSM Communications		Great mode on LISEP 9 2 C Auto Call Answering Strengt CSV file Strengt CSV file										
Users/Access control						- markett e	or mom					
Inputs/Burglar Alarm Zones	Users .	Access Shedules Holidays										
- Outputs (PGM)												<u> </u>
- Automation/Sensors		×							Temporary access L	ate/Time window	Access schedules	Counter
- Event Summary	ID	En User Name	User Tel.	iButton Code	RFID Keycard	Keyb Code	OUT	ARM/DISARM	En Start Date	Expiration Date	1 2 3 4 5 6 7 8	L C En
- Events Log	001A	 Kestutis Repecka 	+37068	000000000000	0000000000	999999	OUT1		2022-06-22 11:13	2022-06-22 🛗 15:13		00 🗙 🗆
Testing&Monitoring	002A	Zivile	+37062	000000000000	0000000000	999998	OUT1		2021-11-12 17:15	2021-11-12 🚺 17:15		0 0 🗙 🗆
Firmware	0034	Liser Name 3	+	0000000000000	000000000		NONE		2021-11-03 109:20	2021-11-03 🛗 09:20		0 0 🖌 🗆
	0044	E Lloor blanc d		00000000000	000000000		NONE			2024 44 02 100 00-20		n n 😜 🗖
Figure 9SERA2>	Ispra	Access control										



4.1 Default Codes/Passwords and Explanations

Password	Default	Location in SERA2	Explanation
Administrator password	123456	SERA2> System Options> Access	The 'Administrator password' allows full module configuration access. The system administrator can adjust device settings, update firmware, and set permissions for the Installer , specifying which parameters they can modify. This ensures protection of sensitive data such as IP addresses, phone numbers, and other confidential information.
Installer Password	000000	SERA2> System Options> Access	The 'Installer password' allows sending SMS commands with INST identification and provides access to SERA2's programming mode. However, the Installer can only modify or see those module settings in SERA2 that the system administrator has granted permission for. Refer to section <u>10.1</u> for more details.
SMS User Password	123456	SERA2> System Options> Access	The ' SMS User Password ' permits sending SMS commands with USER identification. The user phone number must also be authorized for remote or SMS control. The default SMS user password is 123456, used for module control with USER commands. Refer to section <u>10.2</u> for more details.
Арр Кеу	123456	SERA2> GSM Communications> Sera Cloud Service	The 'APP Key ' links to the 'SERA Cloud service' , allowing remote access through the SERA2 or SERANOVA app. For a successful connection, the code must match on both the device and app. For users with multiple systems, <u>use the same 'App Key' across</u> <u>all systems</u> . Different App Keys on the same SERANOVA account can cause functionality issues.
User Code (APP/Keyboard)	123456	SERA2> Users/Access> Users Table[Code] column	The 'User Code ' is a unique identifier for controlling the system via the SERANOVA app or Wiegand keypad . The default Master Code is 1234 or 123456, based on the format. This code must match on the device and in the SERANOVA app under <i>Settings > System Profile > User Access Code</i> . Without the correct code, users cannot control the system.
SIM card PIN	1234	SERA2> GSM Communications> Network/SIM Card	It is automatically ignored if pin request in SIM card is disabled

Table 5 Default passwords and explanations

SERA2 [PROGATE]

🖥 File 🔌 Settings 🚠 Devi	ces 👿 Read [F5] 🛛 🖉 W	/rite (F6) 🛛 🛑 Upo	late 🧐 Help)			
System Options GSM Communications Users/Access control	General System Options S	ystem Fault/Troubles	System Info	Access			
- Outputs (PGM) Outputs (PGM) Automation/Sensors Event Summary	Administrator password:	•••••	(6 symbols)		Allow Installer to see and edit	such fields	
Events Log Testing&Monitoring Firmware	Installer Password:	•••••	(6 symbols)		CMS reporting		
	SMS User Password:	•••••	(6 symbols)		Users/Access control		
	Show passwords				Events Inputs/Zones	V	
SMART P	Remember password				Outputs (PGM) SERA Cloud Service		
						_	

Figure 10System Options> General System Options



4.2 User codes for access control via keypad and SERANOVA app

Each user requires a unique code for system control via the SERANOVA app or Wiegand keypad. The default Master Code is either 1234 or 123456, depending on the code format. To set this up:

- Choose a 6 or 4 digit user access code format in SERA2> System Options> General System Options > [User Access Code Format].
- The system administrator or installer assigns a unique code for each user in SERA2> Users/ Access control in user table [Code].
- To open the gate, control outputs, or ARM/DISARM the security system via the SERANOVA app, enter your unique code provided by the system administrator in SERANOVA > Settings > System Profile > User Access Code. Each user must have a distinct code.



Figure 11User/ Access control and System Options> General System Options



5 Wiring of Wiegand Keypad, RFID Card Reader, and iButton Probe



Wiegand keypad specifications: Wiegand Terminals: D0 / D1 26bit Wiegand (Default); 8bit key press code The 1-Wire interface (1W) by Maxim-Dallas is used for iButton DS1990A keys (with unique 64-bit IDs) and temperature sensors. The system can accommodate up to 800 keys. The first key, automatically registered upon contact with the reader and confirmed by two beeps, is the MASTER key with assigned control functions. The 1-Wire bus length can be up to 100 meters, depending on cable quality and environmental noise.



5.1.1 Adding iButton, RFID, and Phone Numbers to the Module's Memory

First steps:

- Connect iButtons or RFID reader to the module.
- Insert SIM card;
- Screw GSM antenna;
- Connect power supply;
- Connect the module to the computer.

If you want to edit existing configuration,

- Press [**Read**] to view the current configuration.
- Make the necessary edits.
- Press [Write] to save the changes.

Start automatic learning mode via mini USB cable (SERA2 software).

SERA2			_					
📄 Eile 🔌 Settings 🔒 Devid	ces 🛛 🐺 Read (F5) 🛛 💥 Write (Fi	6] 🛑 Update 🧐 <u>H</u> elp						
System Options GSM Communications Users/Access control Inputs/Burglar Alarm Zones Outputs (POM) Automation/Sensors Event List Event Log Testing&Monitoring Firmware	System Ceneral System Options System Options Object Name: SMS/APP Text Charset	Fault/Troubles System Info Access Object Name Latin (160 SMS symbols)						
SMART	User Access Code Format: APP ARM/DISARM Synchr, mode; 1W (1-Wire Bus)	4 - Digits V None V Dallas 1-Wire Bus for IButton keys DS1990. V	SERA2 Settings	ices <u>R</u> ead [F5] Remote Control Users Users Access Sch	Write [F6]	<u>U</u> pdate 📎 <u>H</u> elp e on USER 9	2sAuto Call Ansv	vering
	Clear Events Burer after reset Door Chime Bell Squawk on ARM/DISARM Auto - reARM Start iButton/RFID/Phone pr	ogramming mode Stop programming	- AutomationSensors - Event List - Event Lost - Testing&Monitoring - Firmware	D En 001A V Master 002A User Na 003A User Na	User Name ame 2 ame 3	User Tel. + + +	iButton Code 244242452425 00000000000 00000000000	RFID Keycard C 4527827742 1 000000000 000000000 0000000000 000000000

- Navigate to SERA2 > System Options > General System Options.
- Select the 'Dallas 1-Wire Bus' option (for iButton keys).
- Click on [Write].
- Click on [Start iButton/RFID/Phone Programming Mode].
- Navigate to SERA2 > Users/Access Control.
- Touch the RFID keycards or iButton keys to the reader. The key numbers will appear in the list.
- To finish, go back to System Options > General System Options and click on [Stop Programming].



- Configuration methods:
 - Start automatic learning mode via mini USB cable (SERA2 software).
 - Start automatic learning mode via SMS command INST000000_063_1
 - Enter Keycard numbers manually via mini USB cable (SERA2 software).
 - Start automatic learning mode remotely via SERA2 software.

- You can edit additional settings in the Users/Access Control window. Remember to click [Write] after making changes.
- Navigate to RT Testing & Monitoring > Hardware and click on [Start Monitoring].
- Finally, go to RT Testing & Monitoring > Security Alarm Panel/Access

Start the automatic key programming mode by SMS command

- Before starting programming iButton keys using SMS command, ensure 'Dallas 1-Wire Bus for iButton keys DS1990A' is selected in SERA2>System Options > General System Options> 1W(1-Wire Bus) list box.
- Send SMS message: INST000000_063_1
- You will receive the message: iButton/RFID/Caller ID Learning Mode is Switched ON
- Touch RFID keycards to the RFID reader.
- Sent the message: INST000000_063_0
- You will receive the message: iButton/RFID/Caller ID Learning Mode Stopped

INST000000_063_S

INST = Install. Configuration of the parameters.

- 000000= Installer's password
- _= Space character

063= command code (iButton keys learning/deleting mode)

_= Space character

S=iButton keys entering/deletion mode.

- 0- Disable iButton keys learning mode,1- Enable iButton keys learning mode,
- 2- IButton keys deleting mode. Delete these keys from memory, which will be touched to the reader.

Enter Keycard numbers manually via mini USB cable (SERA2 software).

- Go to SERA2> System Options> General system Options.
- Select Dallas 1- Wire Bus (for iButton keys)
- Press [Write]
- Go to SERA2> Users/ Access control.
- Enter RFID keycard, iButton key numbers
- · Edit other settings
- Press [Write]
- Go to RT Testing & Monitoring> Hardware
- Press [Start Monitoring]
- Go to tab [Security Alarm Panel/ Access]
- Touch the keycard to the RFID reader and iButton keys to the probe

Start the automatic key programming mode remotely via SERA2 software.

- Start SERA2 software
- Press [Connect remotely] button
- Enter required parameters: IMEI/UID and App Key
- Press [Connect]
- Go to SERA2> System Options> General system
- Options.Select Dallas 1- Wire Bus (for iButton keys)
- Select Dallas I- Wile bus (IOI Ibullon ke
- Press [Write]
- Press [Start iButton/RFID/Caller ID Learning Mode]
- Touch RFID keycards, iButton keys to the reader
- Press [Stop programming] button
- Or wait until the learning mode will stop automatically

SERA2 [PROGATE] File Settings Dev System Options GSM Communications Users/Access control Inputs/Burglar Alarm Zones	vices 🗕 Read (F5) 🙀 Write (F6) 🛑 Update 🏠 Help System General System Options System Options	
- Outputs (POM) - Automation/Sensors - Event Summary - Events Log - RT Testing&Monitoring - Firmware	Object Name UDIO(ET Name SMS/APP Text Charse Program Strags SM Card PBL Uring-any Installer Password: Tordino Installer Password: Rende correction to the divide over retainet SMS User Password: Tordination over retainet	X
SMART	User Access Code Fo Print PODI Keyswitch Zone Mod Cewe Lichelanke, 600220200230 PROATE 45 5 A CBIO Digital VO D1 System Name (Sport) PROATE 45 5 A CBIO Application Control of C	Class Solected
THR CO	Door Chaim Commentation Comme Commentation Commentation C	
SERA2 [PROGATE]		
File System Options - System Options - OSM Communications - Users/Access control - Insufe Fundler Alarm, Tones	vices 👿 Read [F5] y Write [F6] 🛑 Update 📎 Help Tennote Control Users table Users Access Shedules Holidays	Te

ommunications	Us	sers	Acc	ess Shedules Ho	olidays							
Access control Burglar Alarm Zones	Γ			9								Те
s (PGM)		ID	En	User Name	User Tel.	iButton Code	RFID Keycard	Keyb Code	OUT	ARM/DISARM	En	:
ation/Sensors	Þ	001	◄	Master	+	0000000000000	0006679809	******	NONE	V		2020-02-
log		002		User Name 2	+	000000000000	0000000000		NONE			2020-02-
ting&Monitoring		003		User Name 3	+	000000000000	0000000000		NONE			2020-02-
re		004		User Name 4	+	000000000000000000000000000000000000000	0000000000		NONE			2020-02-



Refer to: Users & Access Control programming details.

Output Autom Event S Events RT Tes

6 OUTPUTS



The module PROGATE has:

• 1 RELAY output.

- 2 open drain I/O1 and I/O2 (1A/30V).
- 1 output: 1W (10mA, Max Voltage 3,3V) for LED, solid state relays control. ! Max voltage 3,3V
- Outputs can be controlled via short call, SMS, RFID, iButton, or the SERANOVA app. This is particularly useful such as gate opening.
- The system supports automatic scheduling, including holidays.
- Programmable algorithms for outputs operation: Access Control /CTRL/SMS/DIAL, SIREN, BUZER, ARM state, Zones OK, Light Flash, inverting, pulse mode

The output responds to specific system events or remote control via App, SMS, Caller phone number, iButton, or RFID. It's versatile for tasks such as operating garage doors, activating lights, controlling heating, managing watering, and more.

If an output is not in use, it should be disabled. A disabled output cannot be toggled ON or OFF until it is re-enabled.

۲R

AC/DC

AC/DC

12VDC

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RELAY

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Figure 16 Relay connection to, I/O1, I/O2

6.1.1 Bell, Relay, and LED Wiring

Output switch to ground when activated from the module. Connect the positive side of the device to be activated to the VD+ terminal. Connect the negative terminal to the selected output.

Connect devices to the designated outputs as illustrated below. For sound signaling, a DC 12V siren up to 1500mA is recommended. Use a 2 x 0.75 sq. mm double insulation cable for siren connection. Install an auxiliary buzzer indoors near the entrance. This buzzer works in tandem with the main siren during exit/entry delay periods. A piezoelectric 12V DC, 150mA max buzzer, like the PB12N23P12Q model or similar, can be used.

Inputs/ Outputs

8

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N1/D0

N2/D1

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Output mode: timer, steady, pulse count.

The output action can automatically switch ON or OFF under the following conditions:

- System armed or disarmed, -
- Alarm begins or stops, -
- Temperature falls below the set MIN value,
- Temperature rises above the set MAX value,
- Zone violated, Zone restored.

Users can customize the SMS text message that is sent when an automatic PGM output action occurs.

To set output parameters:

- Go to SERA2 > Device > PROGATE > Outputs.
- Input the necessary parameters.
- Disable any unused outputs.
- Click the [Write] to save changes.

To modify an existing configuration:

- Click [Read] to load the current configuration.
- Edit settings
- Click [Write] to save the updated configuration.

SERA2										
File Settings Devices	🐺 Rea	id [F5] 🛛 🞇 Write [F6] 🛛 👁 Upda	te About							
	Ou	tputs								
GSM Communications		D Output Location in Hardware	Output Label	Out definition	Mode	Out Timer	Invert	Pulsating	Pulse ON Time	Pulse OFF Time
Users/Access control		1 GTM1, RELAY	OUT1	Automation & Access	Steady	10s			100ms	100ms
- Burgiar Alarm Zones		2 GTM1, I/O1(1A)	OUT2	Automation & Access	Steady	10s			100ms	100ms
Automation/Sensors		3 GTM1, I/O2(1A)	OUT3	Automation & Access	Steady	10s			100ms	100ms
- Event Summary		4 GTM1, D1 10mA, Max Voltage 3.3V!!	OUT4	Automation & Access	Steady	10s			100ms	100ms
Events Log										
RT Testing&Monitoring										
Firmware			Figure	e 18Outputs (PG	M) wind	<i>w</i>				

RELAY Inputs/ Output IN2/D1 AC/DC AC/D 8 È ð δ 8 ¥ 000 LED 5.6k 12VDC

Figure 17 LED connection toI/O1, I/O2

19 | EN

6.1.2 Output Programming

Quick start outputs

- Install SERA2 software (refer to section at <u>3.5.2</u>).
- Connect the module to your computer via a mini USB cable.
- Open the 'Outputs (PGM)' window in SERA2.
- Set parameters for the chosen output: Set definition (options include disable, bell, buzzer, flash, system state, etc.)

Output state

Output signal

- Mode (pulse, steady(latch), Pulse Count
- Invert operation if required.
- Click [Write] to save your settings.

🙆 SERA2

File Settings Devices 🐺 Read [F5] 🛛 🞇 Write [F6] 🛛 🧇 Update About...

- System Options		Jutp	uts								
- GSM Communications	- C	ID	Output Location in Hardware	Output Label	Out definition	Mode	Out Timer	Invert	Pulsating	Pulse ON Time	Pulse OFF Time
Users/Access control	1	1	GTM1, RELAY	OUT1	Access Gained	Steady	10s			100ms	100ms
- Burglar Alarm Zones	-1	2	GTM1, I/O1(1A)	OUT2	Automation & Access	Steady	10s			100ms	100ms
- Automation/Sensors		3	GTM1, I/O2(1A)	OUT3	Automation & Access	Steady	10s			100ms	100ms
- Event Summary		4	GTM1, D1 10mA, Max Voltage 3.3V!!	OUT4	Automation & Access	Steady	10s			100ms	100ms
- Events Log				,							
-RT Testing&Monitoring											
ⁱ Firmware											

Output ON

Pulse time ON

Figure 19 Outputs (PGM) window

To modify an existing configuration:

- Click on [Read] to load the current settings.
- Make the necessary changes.
- Click on [Write] to save the updated configuration.
- Write edited configuration press [Write]

In pulsating mode (timer), the output behaves as follows:



- The relay contact alternates between ON (for "Pulse time ON") and OFF (for "Pulse time OFF").
- This ON-OFF cycle continues until the output is deactivated.





Buzzer: Output for connection of audio indicator. After the alarm system activated a pulse signal is generated within Exit Delay time, and continuous signal - within Entry Delay time or when the alarm system is disturbed. When the alarm system is turned off, operates like keyboard buzzer.



Remote Control: Output designed for connection of electrical devices which will be controlled by SMS message or phone call a) control by SMS message





Pulse time OFF

Pulse time ON



Flash: Output for connection of light indicator. When the alarm system is on, a continuous signals generated, and if the alarm system is disturbed - pulse signal. Signal is terminated by turning off the alarm system.



Remote Control b) control by phone call





Output OFF

Pulse time OFF

System State: Output for connection of light indicator of the alarm system AC OK: Output for connection of indicator about control panel supply

status. Within Exalarm system act	kit Delay time a pulse ivated – continuous.	e signal is ge Signal is ter	nerated, and when the minated by turning off	from alternating	current	AC OK	
the alarm system.		U	, ,	OFF			
OFF Open		Open		- AC OK			
System State				ON	AC Lost		
ON	Exit Delay	se					
Ready: Output for	or connection of light	nt indicator c	f input statuses. If all	Battery OK: O	utput for connection of	indicator about cor	ntrol panel
zones are clear (r	none violated), a cont	inuous signal	is generated.	supply from batt	ery.		·
OFF Zone Fa	ult			- Battery OFF	^r OK	Battery OK	
Ready				Battery OK			
ON	Zone OK			ON	Battery Lost		
Alarm indication status of the alarr	n: Output for connect n system. After the a	ion of light ir Ilarm system	dicator showing alarm actuation a continuous	Lost Primary C when communic	hannel: Output where a cation with primary channe	continuous signal is was lost.	generated
signal is generate	Alarm				t Primary Channel		
Oper OFF	n 	C L	open	- Lest Drimen/			
Alarm Indication				Channel			
ON	Close			ON			
	Bell Time						
	•						
Fire Sensor Res	et: Output for reset	of fire sense	or operation. Its status	Lost Secondar	ry Channel: Output wh	nere a continuous	signal is
Fir	e Sensor Reset	i one.		Los	st Secondary Channel	Restore Primary Channel	
OFF	_			OFF	f	¥	
Fire Sensor				Lost Secondary			
Reset				ON			
UN	5 seconds						
	•						
6	.1.3 Outpu	It Control	with User Access				
	•						
Set output d	efinition to [Access (Control] or [A	ccess Gained]. SERA2	2>Outputs			
	ntroll output definition	a algorithm fu	nctions as follows:				
User a	ctivates the output (e	.q., connecter	to a Gate) through the	SERANOVA app,	Call, SMS, iButton key, or	r Wiegand reader, th	ie system
logs a	422' CID 'Access Ga	ined' event.					
 Additio user' 	nally, if output ON/OF	-F events are	enabled, the system ca	n log a '780' CID e	event, indicating The outpo	ut state has been ch	langed by the
The [Access Ga	ined] output definition	n (algorithm)	operates as follows:				
Users v	with the right to ARM	DISARM the	system always have ac	cess to control this	output.		
Users	without the right to Af	RM/DISARM 1	the system (indicated by the system is disarmed	an unmarked field	I near ARM/DISARM in wi	ndow SERA2> Use	r/ Access
When a	a user is granted acc	ess, the even	t 'Access granted' (CID o	code 421) is logge	d. If access is denied, the	event 'Access denie	∋d' (CID code
422) is	logged (see SERA2	> Events Log					
 If the o and 42 	utput is defined as [A 2.	utomation / C	IRLJ, It can be controlle	d by the user in ar	ny manner, but it will not g	enerate events CID	codes 421
Event log e.g.							
1853 Event:	1234:1:401:01:001	Time:2017	-08-20 14:42:36 Note	: , Open by User, l	Jser:001, Name:Master	or	
1851 Event:	1234:1:406:01:001	Time:2017	-08-20 14:41:27 Note	: , Cancel, User:00)1, Name:Master		
(a) SERA2	10000	-					- 🗆 X
File 🔌 Settings 🚠 Devi	ces 👸 Read [F5] 🖓 Write [F6] Outputs	📒 Update 🔇 Help					
···· GSM Communications ···· Users/Access control	Outputs Scheduler Holidays					Columbia Columbia	
	ID Output Location in Hardware	Output Name	Out definition Mode Ti	me Invert ulsatin: ON Time (OFF Time Count Input No 1 2 3	3 4 5 6 7 8 [ON] Event Tex	t [OFF] Event Text E R
Event List	1 PROGATE, RELAY 2 PROGATE, IO1 (1A)	Gate OUT2	Access Control VIA Pu Disable Ste	llse 2s □ □ xady 10s □ □	100ms 100ms 0 N/A	0N Text	OFF Text
- Testing&Monitoring	3 PROGATE, IO2 (1A) 4 PROGATE, 1W (10mA, Max Volta	OUT3 ae (OUT4	Bell Ste Buzzer Ste	eady 10s 🗌 🗍	100ms 100ms 0 N/A		OFF Text
T II THY GIVE		-	System State ARM Status				
			Remote Control & Automation AC OK				
			System Armed Status Alarm Indication				
SMART 📄			Lost Primary Chanel Lost Secondary Chanel				
			Fire Sensor RH Sensor Trouble Access Gained				
₩₽ � [®]			STAY Armed Status SLEEP Armed Status				
the second se			Pulse On ARM / DISARM Output State				
			Zone OK Activate by ARM/DISARM Command Activate by SI FEP/DISARM Command				
			Activate by STAY/DISARM Command Access Control				



7 INPUTS

The module PROGATE has:

- 2 analog inputs (In1, .In2 (0-30V)) for analog sensors connection. Or can be used as security system's zones with selectable type: NC/NO/EOL/EOL+TAMPER.
- 2 programmable analog inputs (I/O1, I/O2(0-30V) for analog sensors control or using as security system's zone with selectable type: NC/NO/EOL/EOL+TAMPER Wiegand interface, RFID reader, Keyboard.
- 1 programmable digital inputs (D1(Max voltage 3.3V)) used for:
 - o Dallas 1-Wire Bus. To connect temperature sensors DS18b20 or iButton key DS1990A,
 - Aosong 1-Wire bus Humidity Sensor AM2302, DHT22, AM2305, AM2306,

7.1 Input / zones wiring NC/NO/EOL/Tamper

The module PROGATE has:

- In1, In2, I/O1, I/O2 Can be used as inputs to detect Gate position or security system's zones with selectable type: NC/NO/EOL+TAMPER.
- Connect sensors to module the as is shown in connection diagrams below
- Set the required parameters
- Write configuration by pressing [Write] button

1 It is recommended to use standard motion, fire, and glass breaking sensors. For powering of sensors we recommend to use standard 6-8 wires cable for, designed for installation of security system.

All inputs has pull up resistors 10k (IN1,IN2 is configurable)









Refer to: Zones programming

ΞΞ

22 | E N

8 SERA2 configuration software

The SERA2 software is a configuration tool for the PROGATE module, allowing local configuration via USB or remote configuration via the GPRS/LTE network. It simplifies the system configuration process by enabling use of a personal computer. We recommend programming the PROGATE module with SERA2 software. Here's how to install and start it:

- Open the folder containing the SERA2 software installation and click on the "SERA2 setup.exe" file.
- If the software installation directory is correct, click [Next]. If you want to install the software in a different directory, click [Change], specify the new installation directory, and then click [Next].
- Verify the entered data and click [Install].
- After successful installation of the SERA2 software, click [Finish].
- To start the SERA2 software, go to Start > All programs > SERA2, or navigate to the installation directory and click on "SERA2.exe".

Figure 24Sera2 software

Figure 24Sera2 softwa

Connection of the module to PC

- The module requires a power supply of DC 10-33V or AC 12-24V, with a maximum of 0.2A. Ensure that the module has a SIM card
- inserted (with a topped-up account and PIN code request removed). The module should be connected to the PC via a mini USB cable.

Work with the software SERA2

If you are sure that the module is fully connected to PC and power supply, please go to Devices > PROG/	\TE
(0) SERA2	

File	Settings	Devices	鼝 Read [F5]	🎇 Write (F6)	🧇 Update	About				
						A	-			
1	2	3	4	5	6	7				
Figur	•e 25 Con	nmand li	ne							
	•	Each tir	ne after confi	iguring the mo	dule press	Write 5 icon	thus the software SERA2 will write	e configuration chang	ges into the module!	
	Y	Wait un	til progress b	ar line will ind	icate that t	he configurati	ion has been written successfully		-	
	•			1 -						_
							GTalarm v2_04190	IMEI:868259	SN:0000008C TCP connected	
		Figure 2	6 Progress ba	r						

After configuring the module, you can save all settings to your PC. This saves time when using the same configuration in the future, as you won't need to set the same parameters again. To save the current module configuration:

- Press the [Read] to load the current module configuration.
- Edit the configuration
- Go to File, then select "Save As" or "Save".
- To load a saved configuration, go to File > Open. This allows you to copy the same programmed content into as many modules as required.

To receive software updates:

- Go to **Settings** and select "Check for Updates Automatically". The program will notify you when a new update is available.
- Start the update process when prompted.
- Connect the module to your computer using a mini USB cable.
- Write the update to the PROGATE module by pressing the [Update] button in the SERA2 software.
- If you want to update the module manually, press [Update]

For support with configuration software or device-related questions, follow these steps:

- Press the [Read] to read the configuration from the module.
- Go to "*File* > *Save As*" and save the configuration.
- Save the Events Log file.
 - Send these files along with your question to the seller. These steps will let better understand the problem and will reduce the time to find the solution.

Remote configuration or firmware updates via an internet cloud service may be slower than USB connections. The solution is that multiple modules can be configured on the same computer concurrently. The speed of reading and writing configurations remains unaffected as these processes run in parallel. Multiple instances of the SERA2 program can be operational simultaneously.





Figure 27configuration at the same time. Unlimited number of modules



8.1 General system options programming

The module can send a trouble report and restrict arming if some of selected troubles [Restrict ARM] exist during close event. <u>System Options</u> > General system Options
The general system options settings let you control system options, system general

	settings, systems timers, let yo	u program iButton keys and reset the module.
③ SERA2 [PROGATE]		- 🗆 X
📄 <u>F</u> ile 🔌 <u>S</u> ettings 🔒 <u>D</u> evi	ces <u> R</u> ead [F5] 🛛 🙀 Write [F6] 🛑 Update 🧐 <u>H</u> elp	
System Options	System	
GSM Communications	General System Options System Fault/Troubles System Info Access	
	System Options	System Timers
- Outputs (PGM)	Object Name: Object Name	Test Time: 13:30 hh:mm
- Automation/Sensors	SMS/APP Text Charset Latin (160 SMS symbols)	Test Period: 1 Days
- Event List		
Event Log Testing&Monitoring		Entry Delay 15 s
Firmware		Exit Delay: 20 s
		Bell/Siren Cut-off Timer: 120 s
	User Access Code Format: 4 - Digits 🗸	
	APP ARM/DISARM Synchr, mode: None	
		I Time Zone:
		Clock synchronization: Cloud Server ~
	Clear Events Bufer after reset	
1.	Bell Squawk on ARM/DISARM	
D HIS R.	Auto - reARM	
	Start iButton/RFID/Phone programming mode Stop programming	Set Module Time from PC Read Module Time
	Reset Device	PC time: 2023-08-02 21:22:34,Wednesday
		Panel Time: 2023-08-02 21:02:34,Wednesday
Object Name	System name	
SIM Card PIN	SIM card PIN code. Default 1234	
Installer Password	The default installer password is 000000. This passw	ord allows you to enter programming mode, where you can
	program all features, options, and commands of the r	nodule.
SMS User Password	The default SMS User Password is 123456. This cod	e allows you to utilize arming method, as well as program user
User Access Code	A 4-digit or 6-digit user access code format can be se	ected
Format		
1W (1-Wire Bus)	1W Digital I/O Mode. 1-Wire bus / Digital Input / Digital	tal Output
Clear Event Buffer A	fter When the cell is checked, the memory of unsent repo	rts will be deleted after the module resetting
Reset		
Door Chime	When this box is checked, violations of set Delay zon	es at the alarm turned off will be accompanied by keyboard
Poll onwowk on ADM	audible (Buzzer) signal	a the equality to clert upper that the module is being armed
	I ne module can activate the bell output briefly causin disarmed or that an Entry or Exit Delay was triggered	g the squawk to alert users that the module is being armed,
	The module can be programmed to arm the module i	f there is no activity in the area after the system disarming
Start iButton/RFID	All added iButton keys or RFID cards will be registered	ed in the order of sequence by clicking Start programming
programming	,	
STOP iButton/RFID	To finish entering iButton keys or RFID cards, click S	top programming button
programming		
Test Time	Auto Test report time of day	
Test Period	Auto Test report period	
Entry Delay	This delay gives you time to enter the armed premise	is and enter your code to disarm your system before the alarm is
-	unggered. The system will trigger the Exit Delay Timer to provid	e you with enough time to exit the protected area before the
Exit Delay	system is armed	ש אינה פווטעטו נווויב נס באוג נוופ טוטנפטפט מופמ טפוטופ נוופ
Bell/ Sirel Cut - off	Duration of audible signal (sirens Bell) after the alarn	n system activated. Time shall be written in seconds, duration
Timer	from 0 to 9999.	
Time Zone	System time zone.	
Daylight saving time		
Set module time from	n To set the clock click Set time from PC button and the	e clock will be set using computer's clock.
PC		
Read module time	To read the clock of module.	

8.2 Real-time clock Time Zone and Synchronization	Time Zone: Daylight saving time:	(GMT: + 2) → 0 min Southern Hemisphere
The SERA2 software allows setting the PROGATE real time clock 'Time Zone' and automatic 'Daylight Saving'. Correct settings are crucial for modules using automatic schedules, as incorrect time zones can lead to erroneous schedule activation times. Users can opt to set the module time from their PC for immediate synchronization. When connected to a monitoring station via an IP connection, the system's date and time will	Clock synchronization:	Disabled Cload Server COad Server CSM Network (Local time) GSM Network (GMT)
automatically synchronize with the monitoring station.	Set Module Time from F	C Read Module Time
	PC time: 2 Panel Time: 2	023-08-02 21:04:09,Wednesday 023-08-02 21:02:34,Wednesday

If the module has been connected first time to the power supply, or power supply has been disconnected, the time of the module should be set again by auto synchronization or manually.

System clock can be synchronized in following ways:

- Cloud Server. Synchronize by [SERA Cloud Service]. SIM card must have mobile data and [SERA Cloud Service] must be enabled.
 CSM Natural (Level time). Select this if cellular network.
- 2. **GSM Network (Local time).** Select this if cellular network provides local time format.
- 3. **GSM Network (GMT).** Select this if cellular network provides GMT time format.
- 4. Disabled. If you want to set time manually.



If the date and time of events and SMS messages received are incorrect, you need to set correct way of the clock synchronization.

Clock synchronization via GSM modem

- Go to SERA2> System Options> General System Options
- Set Clock synchronization via GSM modem
- Press "Write" in the command line

🖞 File 🔌 Settings 🛛 ล Dev	vices 👸 Read (F5)	😴 Write	e (F6)	🛑 Update	🍈 Help	
System Options	Event Reporting/Corr	munication				
GSM Communications	SMS/DIAL reporting	Custom SM	/S Text	GPRS/P/TCP/	UDP CMS Reporting	SERA Cloud Servis
Users/Access control						
Inputs/Burgiar Alarm Zones						
A 1-1- /DALA						
Outputs (PGM)	Eachle		ET R	ED & Claud Car	ine (Defeuil)	
Outputs (PGM) Automation/Sensors	Enable	1		ERA Cloud Ser	vice (Default)	
Outputs (PGM) Automation/Sensors Event Summary Events Log	Enable IP or Domain:	Cloud.	topkoda	ERA Cloud Ser	vice (Default)	_
Outputs (PGM) Automation/Sensors Event Summary Events Log RT Testing8Monitoring	Enable IP or Domain:		topkoda	ERA Cloud Ser s.it	vice (Default)	
-Outputs (PGM) -Automation/Sensors -Event Summary -Events Log -RT Testing&Monitoring -Firmware	Enable IP or Domsin: Remote Port:	Cloud:	topkoda	ERA Cloud Ser	vice (Default)	

Figure 29 SERA2> GSM Communication> SERA Cloud Service

- Go to SERA2> System Options> General System Options
- Set Clock synchronization via Cloud Server
- Press [Write]

Clock synchronization via Cloud server

- Go to SERA2> GSM Communication> SERA Cloud Service
- Enable SERA Cloud Service

Figure 28SERA2> System Options> General System Options

System Options - GSM Communications	System General System Options Syste	m Fault/Troubles System Info			
- Users/Access control - Inputs/Burglar Alarm Zones - Outputs (PGM)	System Options Object Name	Object Name		System Timers	13.30 trimm
Autemation/Sensors Event Summary Events Log RT Testing&Monitoring Firmware	SMS/APP Text Charset SIM Card Plik Installer Password: SMS User Password:	Latin (160 SMS symbols)	•	Test Period: Entry Delay Exit Delay: Bell/Siren Cut-off Timer:	1 Days <u>▼</u> 15 s 20 s 120 s
B0 0000	User Access Code Format: Keyswitch Zone Mode: 1W (1-Wire Bus)	4 - Digits Pulse/Edge Dallas 1-Wire Bus DS1990A/DS18620	•	Time Zone: Daylight saving time:	(GMT: + 2)

Figure 30 SERA2> System Options> General System Options

8.3 System Fault/ Troubles Programming

System Options > System Fault/ Troubles

The System Fault/ Troubles settings let you set the communication options if the trouble occurs and let you set system voltage loss and restore options.

🙆 SERA2 [PROGATE]

📄 File 🔌 Settings 🛛 🔒 Devi	ices 選 Read (F5) 🛛 🙀 Write (F6) 💼	🛚 Update 🛭 🍥 Help				
- System Options	titings Devices Read [F5] Write [F6] Update Help System Access System Options System Fault/Troubles Faults/Troubles Faults/Troubles Faults/Troubles Faults/Troubles D Trouble Troub					
GSM Communications	General System Options System Fault/Trou	bles System Info Acc	ess			
Users/Access control Ioputs/Burglar Alarm Zopes	Faults/Troubles				-Fault/Troubles Global Settings	
- Outputs (PGM)	ID Trouble	Enable	Restrict ARM	~	· · · · · · · · · · · · · · · · · · ·	
- Automation/Sensors	1 Battery trouble	v			Turnella Franciski kolta	
- Event Summary	2 Clock trouble	v			Trouble Event Limit :	3
- Events Log	3 BUS trouble	V			Reset Trouble Event Counter After	60 min
Testing&Monitoring	4 Tamper trouble					
····· Firmware	5 Fire loop trouble					
	6 SIM card trouble	v				
	7 Zone antimasking trouble	V			System Voltage (Low Battery) settings-	
	8 GSM network trouble	v				
					Low System Voltage Alarm:	11.6 V
					System Voltage Restore:	13.1 V
					e joteni Tekage Reetere.	
					Event Delay:	60 s
					Global Tamper Recognition:	
~					Audible alarm when disarme / alarm as p	er zone when armed 🧹
m 111						
Y' A Sti Mais						
1 El 23 12						

Figure 31 System Options> System Fault/ Troubles window

TroubleThis column lists potential system troublesEnableThe system will detect a marked troubleRestrict ARMIn case of such trouble, the arming activation will be restricted.Battery troubleLow system voltage. Power supply or backup battery voltage is low, needs to be recharged, or replaced.Clock troubleThe time and date has not been set.BUS troubleThe expansion device is no longer communicating with the module.Tamper troubleThe zone(s) that was tamperedFire loop troubleThe trouble is occurring with your smoke detectors.SIM card troubleNot available or impossible to read SIM card.Zone ant masking troubleDo not available in this moduleGSM network troubleSIM card is not registered with the GSM network providerLow System Voltage AlarmThe module has detected a low voltage. This means that your system is running on the backup battery and voltage is dropped below allowed value.System Voltage RestoreThe module has detected that the system voltage has been restored.Event DelaySystem low voltage trouble event report delay.Setting of the allowable number of such events is counted until the arming mode is changed (On/Off).How the control panel will operate after tamper recognition 18 Tamper Disable		
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System Voltage Restore The module has detected that the system voltage has been restored. Event Delay System low voltage trouble event report delay. Trouble Shutdown Setting of the allowable number of the same trouble event, where in case of excess of such number the trouble reporting will be off. The number of such events is counted until the arming mode is changed (On/Off). How the control panel will operate after tamper recognition 18 Tamper Disable	Low System Voltage Alarm	voltage is dropped below allowed value.
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How the control panel will operate after tamper recognition 18 Tamper Disable		reporting will be off. The number of such events is counted until the arming mode is changed (On/Off).
18 Tamper Disable		How the control panel will operate after tamper recognition
		18 Tamper Disable
The module will not generate an alarm or trouble.		The module will not generate an alarm or trouble.
19 Trouble when disarmed / alarm as per zone when armed		19 Trouble when disarmed / alarm as per zone when armed
When disarmed: Generates Trouble Only		When disarmed: Generates Trouble Only
The module transmits the defined report code.		The module transmits the defined report code.
Global Tamper Recognition When armed: Follows Zone Alarm Type	Global Tamper Recognition	<u>When armed:</u> Follows Zone Alarm Type
20 Trouble always		20 Trouble always
Generates Trouble Only (when armed or disarmed)		Generates Trouble Only (when armed or disarmed)
21 Audible alarm when disarmed / alarm as per zone when armed		21 Audible alarm when disarmed / alarm as per zone when armed
When disarmed: Generates Audible Alarm		When disarmed: Generates Audible Alarm
The module transmits the defined report code and generates an audible alarm.		The module transmits the defined report code and generates an audible alarm.
When armed: Follows Zone Alarm Type		When armed. Follows Zone Alarm Type
The module follows the zone's alarm type.		The module follows the zone's alarm type.

• The module can send a system voltage alarm and restore events.

• It is possible to enable or disable the zone tamper tracking and to set how the module will operate after tamper recognition.

8.4 Zones programming

- PROGATE includes 2 wired zones and 2 programmable I/O inputs.
- Detection devices can be connected to the module's zone terminals, with each zone's parameters configured accordingly.
- Zone bypassing allows for system arming without restoring a violated zone, which will be ignored if violated or restored during exit/entry delay or when armed.
- Stay mode enables system arming and disarming without leaving the secured area, preventing alarms from zones with the Stay attribute when STAY-armed.
- The system enters Stay mode if a Delay-type zone isn't violated during exit delay and a zone with the Stay attribute exists. An arming method providing exit delay must be used in this case.

i	The difference between stay and sleep zone types: "STAY" zone type has 'Delay Zone' timeout, in "SLEEP" zone type 'Delay Zone' becomes instant
i	The system will NOT activate siren and keypad buzzer only when Instant, Silent zone types is violated.
i	In Stay mode, all Delay-type zones function as Instant-type zones. However, when the system is fully armed, Delay-type zones resume normal operation.
	If the zone is not used, it must be disabled

The tamper circuit, independent of the system's status, triggers an alarm upon any disruption. Tamper alarm activates the siren/bell, keypad buzzer, and dispatches an SMS to the user. Tamper alarms are initiated by opening the enclosure of any detection device, siren/bell, metal cabinet, or keypad. Enable these alarms by selecting "Tamper Enabled". If the associated zone is disabled, tamper alarms are suppressed.

The system will NOT cause any tamper alarm regarding the physical tamper violation if the associated zone is disabled.

The figure below shows an example of zone operation with a 3-time alarm event limit:

- Zone alarm is generated 3 times.
- After 3 alarm events the zone is blocked (bypassed) till Event Repeat Timeout will end.
- After Event Repeat Timeout zone will activated again.



Figure 32the explanation of Zone Speed, Max Alarm Count, and Event Repeat Timeout



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Zone Alarm Action= OUT determines which output will be activated	Zone Force ARM=	Force	Only force zones	s can be bypassed w	hen the module is Force armed. Fire Zones canno	t be Force Zones.
			determines which	a output will be active	atod	

📄 File 🔌 Settings Devices 選 Read [F5] 🛛 🖓 Write [F6] 👘 Update 🧐 Help



🙆 SERA2 [PROGATE]

×

System Options	_OL	uqt	ts-					
GSM Communications	0	utpu	uts.	Schedu	ler	Holidays		
Users/Access control								
- Inputs/Burglar Alarm Zones		ID		0.1.1.1			-l	
- Outputs (PGM)		U.			.008	ation in Har	aware	
- Event Summary	P	1	PR	OGATE, F	REL	AY		Gat
- Events Log		2	PR	OGATE, I	01 ((1A)		OU
Testing&Monitoring		3	PR	OGATE, I	021	(1A)		OU
Firmware		4	PR	OGATE, 1	1771	(10mA, Ma	ix Volta	ge (OU
ID				~				
טו				Outpu	It s	equenc	ce nur	nber.

	D Output Location in Hardware	Output Name	Out definition	No	Mode	Timer	Invert	Pulsating	ON Time	OFF Time	Count
1	PROGATE, RELAY	Gate	Access Control 🗸 🗸	N/A	Pulse	2s			100ms	100ms	0
2	2 PROGATE, IO1 (1A)	OUT2	Disable		Steady	10s			100ms	100ms	0
3	PROGATE, IO2 (1A)	OUT3	Bell		Steady	10s			100ms	100ms	0
4	PROGATE, 1W (10mA, Max Voltage	OUT4	Flash		Steady	10s			100ms	100ms	0
			Alarm Indication Lost Secondary Chanel Lost Secondary Chanel Fire Sensor RH Sensor Trouble Access Gained STAY Armed Status SLEEP Armed Status Pulse On ARM / DISARM Output State Zone OK Activate by ARM/DISARM Comi	nand							

ID Output Location in Hardware Output Label

Out de

21 🕨

23 🕨

25 🕨

27 + Automation / CTRL

AC OK

31 Alarm Indication

35 ► RH Sensor Trouble

Access Gained

29 Battery OK ARM/DISARM

Label	Output name	
finition	Selection of output of	peration mo
	21 Disable	Out
Out definition		Out
ell 🗾		con
el 422		Whe
uzzer	23 Buzzer	and
lash 🔫 24		Whe
ystem state	-	Thia

The outputs hardware location.

ode. put disabled put for connection of audible sounder (siren). After the alarm system actuation a tinuous or pulse (fire) signal is generated. en the alarm system is activated, it generates a pulse signal during the Exit Delay time a continuous signal during the Entry Delay time or when the system is disturbed. en the alarm system is turned off, it functions like a keyboard buzzer. This output connects to a light indicator that displays the alarm system's status. It F 26 24 Flash generates a pulsating signal during the Exit Delay time and a continuous signal when the ₹ 28 alarm system is activated. The signal stops when the alarm system is turned off. ◀ 30 Output for connection of light indicator of the alarm system status. Within Exit Delay time a 25 System State pulse signal is generated, and when the alarm system activated - continuous. Signal is ◀ 32 Lost Primary Chanel 33 Lost Secondary Cha Fire Sensor terminated by turning off the alarm system. ◀ 34 Output for connection of light indicator of input statuses. If all zones are clear (none 26 Ready ◀ 36 violated), a continuous signal is generated. Remote control by call mode is enabled. Output designed for connection of electrical 27 Remote Control devices which will be controlled by SMS message or phone call 28 AC OK Output for connection of indicator about control panel supply from alternating current. 29 Battery OK Output for connection of indicator about control panel supply from battery. Output for connection of light indicator of the alarm system status. When the alarm system 30 ARM/ DISARM is on a continuous signal is generated. Output for connection of light indicator showing alarm status of the alarm system. After the 31 Alarm Indication alarm system actuation a continuous signal is generated. 32 Lost Primary Output where a continuous signal is generated when communication with primary channel channel was lost 33 Lost secondary Output where a continuous signal is generated when communication with secondary channel was lost. channel Output for reset of fire sensor operation. Its status changes 5 sec. and returns to the initial 34 Fire Sensor Reset one 35 RH Sensor Output for RH Sensor trouble operation. In this mode output can automatically reset Humidity sensor if trouble occurs. Trouble Output control mode. Steady ON/OFF mode 36 Steady 37 Timer Output ON pulse mode Pulse time duration can be from 1 to 999999 sec. Inversion is activated Pulsating mode is activated. Then output is activated it will pulsate according pulse ON/OFF time.

Mode

Invert

Out Timer





Users/ Access Control > Remote Control Users Table

The Users/ Access Control Table window let you set remote control

<u>options.</u> The system can register up to 800 phone numbers for remote control. Registered users can operate the gate, arm/disarm the system, control outputs via SMS or free calls, and adjust system settings via SMS. Initially, the system accepts calls and SMS from all numbers. However, once a number is registered, the system only responds to listed numbers and ignores unlisted ones. It also rejects SMS from registered numbers if the SMS password is incorrect. The system accepts SMS commands with the 'INST' identifier and installer password from any phone.

i The	module ca	n be controlle	d only by the	se users, wl	hose phor	ne numb	ers en	tered in	the memory of	the module		
SERA2 [PROGATE]												
	ices 📲 Read (F5)	🕅 Write (F6) 👘 (Indate \Rightarrow Heln									
- System Options	Remote Control Use	rs table										
GSM Communications		Guest mode	on USER 9 2	s 🗌 Auto Call Answeri	ing	🖶 Export C	SV file	💼 Import C	SV file			
Users/Access control	Users Access Sh	edules Holidavs										
- Outputs (PGM)		0							Temporary access	Date/Time window	Access schedules	Counter
- Automation/Sensors	ID En	Liser Name	Liser Tel	iButton Code	REID Keycard	Keyh Code	OUT	ARMDISARM	En Start Date	Expiration Date	1 2 3 4 5 6 7 8	
Event Summary Events Log	Maste	r	+	0000000000	000000000	1234	OUT1		2022-06-25 m 17:54	2022-06-25 18:54		
- Testing&Monitoring	002A User I	Name 2	+	00000000000	0000000000		NONE		2022-06-25 17:54			
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	004A 🗌 User I	Name 4	+	000000000000	0000000000		NONE		2022-06-25 17:54	prantrktpnš	it sk popor	1 o o 🗙 🗖
	005A 🗌 User f	Name 5	+	00000000000	0000000000		NONE		2022-06-25 🛗 17:54	6 7 8 9 10 1		100 🏋 🗖
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	007A 🗌 User I	Name 7	+	000000000000	0000000000		NONE		2022-06-25 🛗 17:54	20 21 22 23 24 2		i o o X 🗆
CHADT V	008A User I	Name 8	+	000000000000	0000000000		NONE		2022-06-25 17:54	4 5 6 7 8		00 🗶 🗆
	009U User I	Name 9	+	000000000000	0000000000		NONE		2022-06-25 17:54	Today: 2022-08	-30	
א בבר א	010U L User f	Name 10	+	000000000000	000000000		NONE		2022-06-25 17:54	2022-06-25 17:54		
	0110 User I	Name 11	+	000000000000000000000000000000000000000	000000000		NONE			2022-06-25 17:54		
	0120 C User I	Vanie 12	+	000000000000000000000000000000000000000	000000000		NONE		2022-06-25 17.54	2022-06-25 17.54		
	014U User 1	lame 14	+	00000000000	0000000000		NONE		2022-06-25 17:54	2022-06-25 17:54		
In Is	015U User 1	Name 15	+	000000000000000000000000000000000000000	0000000000		NONE	Г	2022-06-25 17:54	2022-06-25 17:54		
· 1 3 2.5:	016U 🗌 User I	Name 16	+	000000000000	0000000000		NONE		2022-06-25 🛗 17:54	2022-06-25 🛗 17:54		00 🗙 🗆
								-				
		-	<u>, , , , , , , , , , , , , , , , , , , </u>							1		
User Name		The name o	t users who w	vill be able to	o control t	he mod	ule sho	ould be e	entered in this o	column.		
		Telephone r	numbers of us	sers who will	l be able t	o contro	l the m	odule b	y dialing shoul	d be entered in	n this column. Us	ser
User rei.		number sho	uld be entere	d with intern	ational co	de						
		iButton Mox	im iButton ko		64 Bit ID		light h	o ontor	od monually or	automatically	radictored after t	tho
iButton Code	e			y D31990A	- 04 DIUL		viigin D				egistered alter i	
		module ente	ers keys asso	clation mode	e. In order	to dele	te the c	code, it i	s necessary to	enter 000000	00000	
RFID Keycar	ď	RFID Keyca	rd code migh	t be entered	l manually	. In orde	er to de	elete the	e code, it is nec	essary to enter	r 000000000000)
Keyb Code		Key button of	code might be	e entered ma	anually. In	order to	o delete	e the co	de, it is necess	ary to enter 00	0000000000	
		The selecter	d input will be	switched if	a user wi	ll call fro	om this	numbe	r Preferred inn	ut may be assi	igned to each us	ser's
OUT		number. Th	us different u	sers are able	e to contro	differe	nt obje	cts.		at may be assi		
ARM/DISAR	М	If this check	box is check	ed, a user w	ill be able	to ARM	1/DISA	RM the	module by dial	ng.		
MIC		If checked.	ov calling from	n the specifi	ed phone.	the cor	ntroller	respond	ds and you can	hear what's ac	oina on in the pr	emises

The PROGATE module has User Access Schedules for controlling access. Inputs, outputs, readers, and cards are all set up with schedules that dictate their activation or deactivation times. For example, a user could be granted access to control a specific output from 12:00 a.m. to 6:00 a.m. daily. This time frame, from 12:00 a.m. to 6:00 a.m., Monday through Sunday, is defined as a schedule during which the user can open the Gate. These schedules tab to view User Schedules , click on the "Access Schedules" tab.

mmunications	Users Acc	ess Shedules Holidays						Specifies th	ne numi	ber of times a card/ call	/code may be used to whi	ich it has valid access Max 255 uses is allowe
lurglar Alarm Zones		0								Temporary access	Date/Time window	Access schedules Counter
(PGM)	ID En	User Name	User Tel.	iButton Code	RFID Keycard	Keyb Code	OUT	ARM/DISARM	I En	Start Date	Expiration Date	1 2 3 4 5 6 7 8 L C E
tion/Sensors	▶1 🔽 h	laster	+	00000000000	0000000000	*****	NONE	V	2	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
ummary	2		+	00000000000	0000000000		NONE		2	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
ing&Monitoring	3		+	00000000000	0000000000		NONE		2	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
e	4		+	00000000000	0000000000		NONE		2	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
	5		+	00000000000	0000000000		NONE		2	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
	6		+	00000000000	0000000000		NONE		L 5	019-11-30 🛗 21:37	2019-11-30 🛗 21:37	
	7		+	00000000000	0000000000		NONE		2	019-11-30 1 21:37	2019-11-30 1 21:37	
	8	SERA2			00000	O SER	A2					– – ×
	9	File Settinger Devices (10	D	n	00000	File S	ttings De	vices 🞇 Rea	d (ES)	Write (F6)	Undate About	
MADT	10 🗆	rile Seconds Devices	Read (Fo)	oj 🥌 <u>U</u> pdate	Apour 00000	Syste	m Ontions	Re	mote Co	ontrol Users table	There are a second seco	
	11	- System Options	Remote Control Users table		00000	- GSM	Communicati	ons Lie	oro A	Access Shedules Holida	ue]	
	12	Lisers/Access control	Users Access Shedules	Holidays	00000	Users	Access co	ntrol		Tiolda	70	
a	13	- Inputs/Burglar Alarm Zones			00000	- Inputs	/Burglar Ala	rm Zones	-			
	14	- Outputs (PGM)	ID En Start Date	End Date	Annual 00000	Outpu	ts (PGM)		ID En	Start Time End T	ïme Mo Tu We Th	Fr Sa Su Holidays
	15	- Automation/Sensors	▶ 1 □ 2000-01-01	2000-01-01	00000	Autor	nation/Senso	ors 🕨	1	00:00 🕓 00:00		
	16	- Event Summary	2 2000-01-01	2000-01-01	00000	Event	Summary		2	00:00 🛞 00:00		
	17	- Events Log	3 2000-01-01	2000-01-01	00000	RT Te	s Luy stina&Monito	pring 0	3	00:00 🛞 00:00		
	18	RT Testing&Monitoring	4 2000-01-01	2000-01-01	00000	Firmy	are		4	00:00 🕲 00:00	<u>6</u> – – – – –	
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	26		12 2000-01-01	2000-01-01	1 0000	- E					Enabling or disabli	ing holidays
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					00000	1						

Figure 33 Users/Access Control > Users, Users Access Control > Access Shedules and Users/Access Control > Holidays window



- Holidays should be considered special days of a week. They are similar, but of higher rank than the standard Monday-Sunday.
- Temporary access, that self-destructed after a certain time elapses

Lets say need to create create a Cleaning Crew schedule as follows: Monday-Friday from 5 p.m. to 1 a.m., and Saturday-Sunday from 8 a.m. to 1 p.m., excluding holidays. This results in three schedules:

• Monday-Friday, 5 p.m.-11:59 p.m.

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- Tuesday-Saturday, 12:00 a.m.-1:00 a.m.
- Saturday-Sunday, 8:00 a.m.-1:00 p.m.

Holidays are treated as special days, superseding regular weekdays. If a Holiday is set, the controller bypasses the schedule, preventing user access during that period. Each Holiday spans a full day, from midnight to midnight.

③ SERA2 [GTalarm2]																
📄 File 🔌 Settings 🔒 Dev	/ices	👸 Rea	ad (F5) 🛛 🙀 Write	: [F6] 🛑 Updat	e 🐚 Help											
System Options	Rem	ote Con	trol Users table													
GSM Communications	Use	rs Ac	cess Shedules Holi	davs												
- Users/Access control			0								-					
Inputs/Burglar Alarm Zones									,		Tempora	ry access L	Date/Time window	Access sch	cules	Courter
- Outputs (FGM)		DE	User Name	User Tel.	iButton Code	RFID Keycard	Kevb Code	OUT	ARM/DISARM	MIC Er	n Start D	ate	Expiration Date	1 2 3 4 5	6 7 8 L	C En
Automation/Sensors	b 0	01 🗵	Zivile	+37065558449	0A0D00B3EF26	0005679809	AABBRA	OUT1	~		2020-02-05 🛅	22:16	2020-02-05 🛄 22:16			0 💢 🗖
Event Summary		102 🔽	Aklas	+	0A0D003B5615	0001645911		OUT2	2		2020-02-05	22:16	2020-02-05 📩 22:16			0 🗙 🗖
EVENIS Log		ica 🗖	User Name 3	+	0A0D00925500	0000000000		NONE			2020-02-05	22:16	2020-02-05 🚞 22:16			0 💢 🗖
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(1) SERA2 [ISTalarm2]																1.1
File Settings Devi System Options GSM Communications Users/access control InputsBurger Alem Zones Outputs (PGM) Automation/Senears Event Summary Event Log RT TestingSMontoring Finiteware Figure 34 the exami-	0015 0015 0015 0015 0015 0015 0015 0015	D of P of S	0 0	Fe) Update Accoso SchoorerA Trice2020022 Trice202002 Trice2020 Trice2020 Trice202002 Trice202002 T	Help Ustantion Lvent Mo 09.34 0 Access 09.33 44 Access 09.33 37 Access 09.33 31 Access 09.33 31 Access 09.33 31 Access 09.33 25 Rendo 60.32 25 Closer 60.32 25 Closer 60.32 23 Zone I 60.32 23 Zone I 60.32 22 Open I 60.32 21 Pertial 60.32 21 Partial 60.32 21 Zone I 60.32 21 Zone I	ntoring s denied, User 001, s denied, User 001, s denied, User 001, s denied, User 001, open, User, 001, Nor open, User, 001, Nor Mark, User 002, Nor Myses, Zone 003, y User, User 001, Nor ARM, User 001, Nor NARM, User 001, Nor NARM, User 001, Nor Nard, User 001, No	Nama: Zivle Nama: Zivle Nama: Zivle Nama: Zivle anre: Zivle anre: Zivle anre: Zivle anre: Zivle Corre Name 3 Corre Name 3 Corre Name 3 Corre Name 3 Corre Name 3 Corre Name 5 Corre Name 2 Corre Name 1		SEFJ SYde Syde Syde Syde Syde Syde Cuppu Auton Even Fire Fire Fire Fire	A2 [GTala Settin n Options Communics Access	arm2) ngs Devices adons control Warm Zones atoring	Read note Control ers Acce 1 1.80 2 C80 3 000 5 000 6 000 8 000	(F5) (2) Write [F6] (Lsers table as Should Heldays Heldays last Time End Time 0 (3) 08:32 0 (3) 09:32 (3) 0 (3) 00:30 (3) 0 (3) 00:00 (3) 0 (3) 00:00 (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3) 0 (3) (3) (3)	Update		

The module can be controlled only by these users, whose phone numbers entered in the memory of the module



8.7 Event Notifications via SMS & DIAL



GSM Communications > SMS DIAL Reporting

Up to 8 admin users can be set to receive SMS or DIAL notifications. These users can receive alarm phone calls and SMS text messages from the system via a GSM connection. When the gate is opened or the system is armed/disarmed, an SMS notification is sent to the user's phone number. In the SMS and DIAL Reporting settings under GSM Communications, users can input their phone numbers and select the events they wish to be notified about.

When a zone or tamper is violated, the system triggers an alarm. The alarm sequence is as follows:

- The siren/bell is activated. If the violated zone is of Fire type, the siren/bell emits a pulsating sound. Otherwise, the sound is steady.
- The system attempts to send an SMS text message, containing the violated zone's name. Each violated zone triggers a separate SMS. If the user's phone number is unavailable, the system tries the next listed number assigned to the same zone. Unavailability can be due to the mobile phone being switched off or out of GSM signal coverage. By default, the system continues to send the SMS to the next listed numbers in priority order, repeating as many times as programmed.
- If programmed, the system attempts to call the first user phone number via GSM, with each violated zone triggering a separate call. If the user is
 unavailable, the system dials the next listed number assigned to the same zone. Unavailability can be due to the mobile phone being switched off,
 out of GSM signal coverage, or busy.

🙆 SERA2 [PROGATE]																			
📄 File 🔌 Settings 🚑 Dev	ices 📲 Read (F5)	🞇 Write (F6)	🛑 Update	🚯 Help															
···· System Ontions	-Event Reporting/Com	nunication		O															
- GSM Communications	SMS/DIAL reporting	Custom SMS Tout	Motwork / SIM	Cord CMS Bon		ud Coruico													
Users/Access control	CMC/autoDIAL Dias	- block an	Network / Sim	cara cino rep	ionting SERACIO														_
Inputs/Burglar Alarm Zones	-SMS/autoDIAL Phon	e Number					S	MS N	otifica	ations	to USE	R	ļ	Auto	DIA	L to L	JSER		
Outputs (PGM)	Tel.1 +		ID	Eve	ents		1	2 3	3 4	5	6 7	8	1	2 3	4	5	6	7 8	
- Automation/Sensors	Tel.2 +		1 Alarm/Resto	ore (CID 100 grou	up)		\checkmark									\Box	\Box		1
Event Summary	T-10		2 System Ope	en/Close (CID 400	0 group)		$\overline{\mathbf{v}}$										\Box		1
			3 System True	obles(CID 300 gr	oup)		$\overline{\checkmark}$										\Box		1
	Tel.4 +		4 Sensor1-Se	ensor32 Alarm/Re	estore		$\overline{\mathbf{v}}$										\Box		1
	Tel.5 +		5 Test Events	(CID 600 group))		$\overline{\mathbf{v}}$												1
			6 Other Event	:8			$\overline{\mathbf{v}}$												1
			7 Input/Zone1	Alarm/Restore			$\overline{\mathbf{v}}$												1
	Tel.7 +				₹					Г	П		Г	Г			1		
	Tel.8 +			V						Г			Г	П		Ť.			
CHILDT				V						Γ		Γ	Γ			i.			
			11 Input/Zone5	Alarm/Restore															1
	Limit of alarm dialing	r 10 –		Alarmatestore			ι.												
	SMS forwarding	to Tel.1																	
	Show Object Na	me																	
	Show Zone/Use	r Number																	
the second	Show Event Tim	e 🛛																	
· 1 5 1.5	Show CID Code																		
1 2 1 2 M																			
		L	Jser must type m	obile number in t	he international fo	ormat. It cons	sist of	only	those	digits	s that o	verse	as ca	lers m	ist ty	pe:			
			country code][ar	ea code][local nu	umber] without syl	mbol '+'.													
		s	so the incorrectly	and correctly er	ntered numbers ar	re:	~~~ /												
		Ir	ncorrectly entere	ed user number: 4	440113xxxxxxx o	or 0113xxxxx	xx												
			Correctly entered	l user number: 44	4113xxxxxxx														
		Enter up to	8 user phor	ne numbers	for SMS and	d auto-dia	alino	ı. us	ina	the	inter	natio	nal	form	at				
		Country c	odel[Area	code][Loca	I numberl w	vithout the	e '+	'svi	nbo	I. Fo	or ex	amp	le. a	UK	nun	nbe	r +4	4 (0))
The CMC/aute DIAL DR		113 xxx xxx	x should be	e entered as	44113xxxxx	xx.							,					,	
The SMS/auto DIAL Pr	none Numbers	Incorrect fo	rmats would	be 440113	3xxxxxx or 0)113xxxx	ххх												
		Next to eac	ch user's ph	none numbe	er, select the	e checkb	oxe	s fo	r th	e ev	vents	tha	t wil	l trig	ger	an	S№	1S or	ſ
		auto-dial to	that user.											-	-				
SMS Character Set		SMS chara	cter set sele	ection.															_
Limit of Dialing		Indicate ma	ximum num	ber of unsu	ccessful call	s													
Show Object Name		Object nam	e will be dis	played in th	ne SMS mess	sage													
Show Zone Number		Zone numb	er will be di	splayed in th	he SMS mes	sage													
Show Event Time		Event time	will be display	ayed in the	SMS message	ge													
Show CID Code		Report Con	tact ID code	e															_
Zone1- Zone32 Alarm/	Restore	Zone1- Zon	ne32 alarm a	and restore	events repor	ting is en	nabl	ed.											_
System Open/ Close (0	CID 400	System AR	M/DISARM/	STAY repoi	rting is enabl	led.													_
group)		-		-	-														
System Troubles (CID	300 group)	System trou	uble reportin	ng is enable	d.														
Sensor1- Sensor32 Ala	arm/ Restore	Sensor 1 –	Sensor32 a	larm and re	store events	reporting	g is	ena	bled	Ι.									_
Test Events (CID 600 g	group)	Communica	ation test rep	porting is en	nabled.														_
Other Events		Other event	ts reporting	is enabled.															_
Sand SMS to USED		The system	The system allows for SMS reporting to selected phone numbers (1-8). If a specific event occurs in the																
Send SMS to USER		system, an	system, an SMS message will be sent to the enabled phone numbers.																
		The system	supports a	utomatic dia	aling to selec	ted phon	e n	umb	ers	(1-8). If a	a sp	ecific	eve	nt o	occu	rs,	the	_
Auto DIAL to USER		system will	system will automatically dial the enabled phone numbers.																



8.7.1 Custom SMS/APP Text

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<u>GSM Communication</u> > Custom SMS Text

The Custom SMS Text options let you enter the text that will be send to the user in case if the alarm event occur.

🙆 SERA2 [PROGATE]

	EVE		reporting/communication		
Users (Assess sector)	SM	IS/D	IAL reporting Custom SMS Text Network / SIM	Card CMS Reporting SERA Cloud Service	
Inputs/Burglar Alarm Zones		D	Text Descrition	SMS Text	^
Outputs (PGM)	E	1	Alarm	Alarm	
Automation/Sensors		2	Restore	Restore	
Event Summary		З	Open	Open	
Events Log Testing Monitoring		4	Close	Close	
Firmware					

	1 I ext Description	Event type text
	2 SMS Text	Text which will be visible in SMS message is entered.
	3 Alarm	SMS message text of alarm report can be entered.
	4 Restore	SMS message text of restore report can be entered.
	5 Open	SMS message text of open report can be entered.
	6 Close	SMS message text of close report can be entered.
_		

Figure 35Explanation of every field in "Custom SMS Text" window

8.8 Event Summary (Events)



Event Summary (Events)

The Event Summary (Events) window illustrates Contact ID codes of the events and enable user to change the text that will be reported in case if the event occur.

③ SERA2 [PROGATE]

System Options	Even	ts															
GSM Communications	ID	Name of Status Event	Code	Туре	Enable	SMS1	DIAL1	SMS2	DIAL2	SMS3	DIAL3	SMS×	DIAL×	CMS	APP	Alarm SMS Text	Restore SMS Text
sers/Access control	1	A non-specific medical condition exists	100	ZONE	~	~				v		V		V	V	Medical Alarm	Medical Restore
outs/Burgiar Alarm Zones touts (PGM)	2	Emergency Assistance request	101	ZONE	~					\checkmark		\checkmark		V	V	Personal Emergency	Personal Emergency
tomation/Sensors	3	A user has failed to activate a monitoring device	102	ZONE	-	~						-		~	V	Fail to report in	Fail to report in
ent Summary	4	A non-specific fire alarm condition exists	110	ZONE	~	V				\checkmark		-		~	\checkmark	Fire Alarm	Fire Restore
ents Log	5	An alarm has been triggered by a smoke detecto	111	ZONE	-	V				\checkmark		v		\checkmark	\checkmark	Smoke Alarm	Smoke Restore
sting&Monitoring	6	An alarm has been triggered by a combustion de	112	ZONE	-	•						-		~	V	Combustion	Combustion Restore
mware	7	An alarm has been triggered by a water flow def	113	ZONE	V	V		V		\checkmark		V		Y	V	Water flow	Water flow Restore

Figure 50 Event Summary window

2	ID	Report sequence number
3	Name of Status Event	Event (report) name
4	Code	Report Contact ID code.
5	Enable	The indicated report will be sent when it is checked.
6	Alarm SMS Text	Alarm text which will be visible in SMS message is entered.
7	Restore SMS Text	Restore text which will be visible in SMS message is entered.
8	Туре	None SER Refer to USER Report Options

Refer to Zone Report Options

Refer to Numerical Report Options

Figure 37 Explanation of every field in "Event Summary" window

11

12

ZONE

NUM



Qo <u>RT Testing & Monitoring</u> > Hardware

The Hardware Monitoring window provides real-time visibility into the states of inputs and outputs, as well as GSM information. This facilitates the evaluation of whether the inputs, outputs, and network registration are functioning correctly.

SERA2 [PROGATE]			- 0	×
📄 <u>F</u> ile 🔌 <u>S</u> ettings 🔒 <u>D</u> evi	ces 🐺 Read [F5] 🛛 🔀 Write [F6] 🛛 🛑 Update 🍥 <u>H</u> elp			
System Options	Monitoring window			
- GSM Communications	Hardware Security Alarm Panel/Access Sensors/Automation Event Monitoring			
Inputs/Burglar Alarm Zones Outputs (PGM)	Inputs (ADC values) IN1 2063 19.74 V PullUp	Outputs states		
- Automation/Sensors	GSM info IN2 2063 19.74 ∨ ∠ PullUp	RELAY	RELAY On/Off	
Event List	INE: 8645 IO1 12459 123.53 V 2 Pullup	_ 101	IO1 On/Off	
- Testing&Monitoring	SIM ICCID: 89370038003012856960	□102	IO2 On/Off	
Firmware	SIM card: READY IN1/IN2 PullUp On/Off			
	Signal level: 24			
	Registration:			
	Registered, home network			
	SMS Service Centre Address:			
	: "+37068499199",14	1W1/0	1W On/Off	
	System Status			
	System Voltage: 2530 23.89 V			
1	System Voltage 🔽 OK			
De l'III Brok	RTC Clock 🛛 OK			
	Module Real Time Clock: 🛞 Set RTC Clock			
	2023-08-03 16:12:16,Thursday			
	USB Connected PROGATE_052307291832_4G_G	IMEI:864	SN:00001236	

Figure 38 RT Testing Monitoring> Hardware window

Start Monitoring	Pressing Start Monitoring button starts the monitoring of the module.
Stop Monitoring	Pressing Stop Monitoring button stops the monitoring of the module.
IMEI	IMEI number of GSM modem available in the module
SIM ICCID	ICCID (Integrated Circuit Card Identifier) - A SIM card contains its unique serial number (ICCID). ICCIDs are
	stored in the SIM cards and are also printed on the SIM card.
SIM Card	If note READY is visible, it means that SIM card is fully functioning. Otherwise, check whether PIN code request is
	off or replace SIM card.
Signal level	Signal strength of GSM communication
Registration	State of GSM modem registration to GSM network.
SMS Service Centre Address	SMS center number. This number should be checked if it is correct. If this number is incorrect. SMS messaging
Sind Service Centre Address	may be impossible. This number may be changed after inserting SIM card into any mobile phone.
System Voltage	Power supply voltage. Nearby number is value of ADC voltage. When multiplying this number by the coefficient
System voltage	Fig. 32, voltage value (V) will be achieved.
System Voltage	System voltage OK/Trouble
RTC Clock	Real time clock OK/Trouble
Module Real Time Clock	Indicates the time of the module RTC
Set RTC Clock	By pressing this button real time clock of the module will be set.
Inputs In1In4	In1In4 is the indicated input ADC and voltage value V.
I/O1I/O2	I/O1I/O2 is the indicated voltage ADC value and current ADC value mA.
D1D3 (I/O)	Check box nearby the digital inputs D1D3 (I/O) means that the input has '0' or '1' state.
BUS (I/O)	Check box nearby the zone expansion module BUS (I/O) means that the input has '0' or '1' state.
Out1 Out4 Op/Off	Checked box nearby the appropriate output Out1Out4 means that this output currently has '0' or '1' state. The
	output could be activated by pressing On/Off button
	Checked box nearby the appropriate input/output I/O1I/O2 means that this input/output currently has '0' or '1'
	state. The output could be activated by pressing On/Off button
D1D3 (I/O) On/Off	Checked check box nearby the digital outputs D1D3 (I/O) means that the output currently has '0' or '1' state.
BUS (I/O) On/Off	Checked check box BUS (I/O) means that the output currently has '0' or '1' state.

<u>RT Testing & Monitoring</u> > Security Alarm Panel/ Access

The Security Alarm Panel/ Access window let you see real time zones states: is zone alarmed, bypassed, forced etc. This window it let you change system state: disarm, arm, sleep, and stay. This window let you look to access control area also.





The Event Log window show real time information of the events that has been occurred

The event log allows to chronologically register up to 3072 time stamped records regarding the following system events:

- System start.
- System arming/disarming.
- Zone violated/restored.
- Tamper violated/restored.
- Zone bypassing.
- Temperature deviation by MIN and MAX boundaries.
- System faults.
- Configuration via USB.
- User phone number that initiated the remote configuration.

Communication with monitoring station status.

🙆 SERA2

File Settings Devices 🕃	Read [F5] 🛛 🞇 Write [F6] 🛛 🧆 Update 🛛 About
System Options GSM Communications Users/Access control Inputs/Burglar Alarm Zones Outputs (PGM) Automation/Sensors	Events Log Clear Event Log 1235 Event:1:601:00:000 Time:2020-01-06 13:30:00 1234 Event:1:373:01:005 Time:2020-01-05 21:36:45
Event Summary <mark>Events Log</mark> RT Testing&Monitoring Firmware	Events could be read from the module by clicking <u>Read Event Log</u> button Events could be cleared from the module by clicking <u>Clear Event Log</u> button <u>Note:</u> Event report text which was indicated. <u>Time:</u> Event date and time. <u>Event:</u> Object number and registered event report in Contact ID code. <u>Event Number:</u> Event sequence number

Figure 39 Events Log window.

[1 Read Event Log	Events could be read from the module by clicking Read Event Log button
	2 Clear Event Log	Events could be cleared from the module by clicking Clear Event Log button
	3 Event Number	Event sequence number
4	4 Event	Object number and registered event report in Contact ID code.
	5 Time	Event date and time.
-	6 Note	Event report text which was indicated.

Remote Device Management: Configuration, Firmware Updates, Monitoring, 9 and Logging



Or

2.

What actions can be performed remotely when connected to a module over the internet?

- System configuration parameters can be changed.
- Read/Clear event log
- System status and temperature sensors can be monitored.
- Firmware updates for the module can be implemented.

How does remote connection work?

- The remote connection is established via GPRS/LTE using the TCP/IP protocol.
- The GSM module connects to the internet through GPRS, linking to the SERA cloud server [cloud topkodas.lt].
- The SERA2 configuration tool establishes the connection using the unique ID (IMEI) of the module.
- PROGATE ←→ SERA Cloud Server [cloud.topkodas.lt] ←→SERA2 Configuration software (Windows)

PROGATE ←→ SERA Cloud Server [cloud.topkodas.lt] ←→SERANOVA app (Web,Android,IOS)

Sera Cloud Server opens tunnel between module PROGATE and SERA2 or APP and lets them communicate to each other via TCP protocol.

Ensure the SIM card has GPRS/LTE mobile data service activated by the network provider. Usually, this service is enabled by default. If not, reach out to the GSM service provider for activation.

Steps to activate Remote control over internet:

Go to SERA2 > GSM Communication > Network/ SIM card tab Set APN, Login, Password

③ SERA2 [PROGATE]							_		×
📄 Eile 🔌 Settings 🛛 🔒 Dev	ices 🐺 <u>R</u> ead (F5)	<u> W</u> rite [F6]	📒 <u>U</u> pdate [🍥]	<u>H</u> elp					
···· System Options	Event Reporting/Com	nunication							
- GSM Communications	SMS/DIAL reporting	Custom SMS Text	Network / SIM Card	CMS Reporting	SERA Cloud Ser	rvice			
Users/Access control Inputs/Burglar Alarm Zones Outputs (PGM) Automation/Sensors Event List Event Log Testing&Monitoring Firmware 3. If needed, APN/Pa INST000000 008= comma e.g. INST000000 comma	SIM Card settings SIM Card PIN: APN: Login: Password: ssword/Login/IP/Do 008_APN#LOGIN# ind code (GPRS ne	internet main/ Port /PING PSW# twork settings); A ="internet and no lo	6 time /KEY can b APN=31 symbols; bgin and password.	e set by SMS co LOGIN=31 sym	Network Network SMS ove	er LTE, VoLTE symbols	Auto		~
SERA2 [PROG/	ATE]							×]
📄 File - 🗞 Setting	s 🏯 Devices 📳	Read (F5) 🛛 🞇 '	Write [E6] 🛛 🦲	Indate 🔞 Heli	n				
···· System Options	Event Re	porting/Communics	ation		r				
GSM Communica Users/Access c Users/Access c Outputs/Burglar Al Outputs (PGM) Automation/Sens Event List Event Log Testing&Monitorii Firmware	tions SMS/DIA ontrol arm Zones Enable ors Enable IP or I Remo APP K	AL reporting Cust	om SMS Text Netv	vork / SIM Card	CMS Reporting	SERA Cloud Si	ervice		

- Write the configuration into the module by pressing [Write] icon 5.
- Ready the module by inserting the SIM card, attaching the antenna, and connecting the 12V/1A VDC power supply. 6.
- Wait for the module to register to the network and connect to the 'SERA Cloud service' 7

8. Start SERA2 and press [Connect remotely ...] or press SERA2 > Settings

SE	RA2					-	- 0) X
<u>Eile</u>	Settings -	<u>a D</u> evices	🦉 <u>R</u> ead (F5)	💥 <u>W</u> rite (F6)	📒 Update	([™])Help		
						To start configuration plug-in USB cable		
			[© Or		
			E	-				
						Connect remotely		

- SERA2> Settings Check [SERA Cloud Service (default)] checkbox.
 Enter module IMEI, App key (default: 123456), system name (optional)

Program Settings			×
Language: English	~	Check for Updates Automatically	
Remote connection to the de	vice over internet		
IP/Domain	cloud.topkodas.tt	Use default SERA Cloud Service	Clear All History
Port	10001		Clear Selected
	Selec	t unique device identifier UID (IMEI,MAC) from the list of connection histor	у
Device UID/IMEI/MAC	866011111111		VID List Editor
System Name (Optional)	My system		
Арр Кеу	•••••	Connect	Disconnect
Connection status to the ser	ver:		
		ОК	

11. Press [Connect] button and wait till connection will be established. In the bottom in the status bar appears [TCP connected] notification.

The SERA2 software maintains a connection history for convenience, remembering all previously entered IMEI numbers. If there's a need to clear the list of UID/IMEI, simply press [Clear History] or press [UID List Editor] to edit the connection history list.

i

10 SMS Commands for remote control and configuration



st of u	ser SMS commands:	List of installer SMS commands:
•	Set the system mode: Arm/Disarm/Stay/Sleep	 Add/Edit/Delete user phone numbers
•	Bypass zones	Control outputs
•	Set the time of the module	 Arm/disarm the system or select stay, sleep mode
•	Request zone test and system state	Bypass zones
•	Forward messages to other number	Set the time of the module
		 Request zone test and system state
		 Forward messages to other number
		 Set periodical test,
		 Set GPRS network settings
		Remote control via Internet
		 Activate/ deactivate connection to the remote control server
		 Enter/ deleting iButton keys
		 Change sensor's values
		 Request module configuration information
		 Change user, installer password
<i>Instali</i> By de <i>User (</i> By de	<i>ler code</i> – 6-digit password used for system configu fault, installer code is 000000, which is highly reco code for SMS commands – 6-digit password used t fault, user code is 123456, which is highly recomm	ition, control and request for information. nended to change. system control and request for information. ided to change.
Instali By de User By de	<i>ler code</i> – 6-digit password used for system configu fault, installer code is 000000, which is highly recor <i>code for SMS commands</i> – 6-digit password used f fault, user code is 123456, which is highly recomm	ition, control and request for information. nended to change. system control and request for information. ided to change.
Instali By de User (By de	<i>ler code</i> – 6-digit password used for system configu fault, installer code is 000000, which is highly recor- code for SMS commands – 6-digit password used i fault, user code is 123456, which is highly recomm USER commands are exclusively accessible to inc INST commands can be transmitted from any pho	ition, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Conve number, provided the correct installer password is used.
nstali 3y de Jser d 3y de	ler code – 6-digit password used for system configu fault, installer code is 000000, which is highly record code for SMS commands – 6-digit password used to fault, user code is 123456, which is highly recomm USER commands are exclusively accessible to ind INST commands can be transmitted from any pho INST- Installer identification	tion, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Conve number, provided the correct installer password is used. USER - User identification
nstali 3y de Jser d 3y de	ler code – 6-digit password used for system configu fault, installer code is 000000, which is highly record code for SMS commands – 6-digit password used to fault, user code is 123456, which is highly recomm USER commands are exclusively accessible to ind INST commands can be transmitted from any pho INST- Installer identification Installer's or user's password.	tion, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Conve number, provided the correct installer password is used. USER - User identification USER - User identification
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Install By de User o By de	ler code – 6-digit password used for system configu fault, installer code is 000000, which is highly record code for SMS commands – 6-digit password used to fault, user code is 123456, which is highly recomm USER commands are exclusively accessible to ind INST commands can be transmitted from any pho INST- Installer identification Installer's or user's password. space character Command code. space character	tition, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Conve number, provided the correct installer password is used. USER - User identification USER's password. space character Command code. space character
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Instali By de User of By de	ler code – 6-digit password used for system configu fault, installer code is 000000, which is highly recor code for SMS commands – 6-digit password used to fault, user code is 123456, which is highly recomm USER commands are exclusively accessible to ind INST commands can be transmitted from any pho INST- Installer identification Installer's or user's password. space character Command code. space character First configuration array space character	tition, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Convent number, provided the correct installer password is used. USER - User identification USER's password. space character Command code. space character First configuration array space character
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Install By de User o By de	ler code – 6-digit password used for system configuration fault, installer code is 000000, which is highly reconcode for SMS commands – 6-digit password used if fault, user code is 123456, which is highly recommended in the second se	tion, control and request for information. nended to change. system control and request for information. ided to change. iduals whose phone numbers have been registered in the module's system. Convent number, provided the correct installer password is used. USER - User identification User's password. space character Command code. space character First configuration array space character Second configuration array - etc.

INST000000_001_1#37066666666666#111111111#10000000#

SMS configuration is allowed only with Latin characters. Unicode is not allowed.

In this guide, we use the symbol "_" to represent a single space. Each "_" you see should be replaced with one space in your actual SMS text. Please avoid any extra spaces or characters before and after your message. Remember: For SMS, "_" = Space. We use "_" in examples for better clarity.

10.1 The table of installers SMS commands

1

SMS commands can be sent from any phone number as long as the correct installer (INST) password is used. Please safeguard your INST password diligently! The default password is set to '000000'

Table 6 the table of installers commands

	To add admin user phone numbers for SMS and Call notifications upon an event, use the following format:
INST000000_001_ID#TEL#SMS#DIAL# e.g. INST00000_001_1#370666666666#11111111#10000000#	001 = Code for adding admin user's phone numbers ID = User index (1-8) TEL = User's phone number (max 16 digits), without (+), including country and operator's code. End with '#' SMS = Notification event filter. 1 sends the event, 0 doesn't. Events are ordered (1.2.3n), e.g., 001000 DIAL = Dial event filter. 1 dials if the event occurs, 0 doesn't. Events are ordered (1.2.3n), e.g., 101000 #= delimiter Example: INST000000 001 1#370666666666#0001000000#0000011111# The event filter order is as follows, with 0 indicating disabled and 1 enabled:
	 Alarm/Restore (CID 100 group) System Open/Close (CID 400 group) System Troubles (CID 300 group) Sensor1-Sensor32 Alarm/Restore Test Events (CID 600 group) Other Events Input/Zone1 Alarm/Restore Input/Zone2 Alarm/Restore And so on.
INST000000_002_ID	To delete an admin user's phone number (used for SMS notifications), use the command '002' followed by the user ID index (1-8).
e.g. Delete admin User1 at index 1 INST000000_002_1	002 = Command code for deletion ID = User index (1 to 8)
INST000000_003	Delete all users in database. 003 = Command code
INST00000 0_004_ID#TEL#OUT#OPT#NAME# e.g. Add user at index 1 , phone-3706666666666, out1 INST000000_004_1#3706666666666#1#10#Jon#	To enter user's telephone number for remote control via short call USER NAME-only Latin characters is allowed inside SMS 004= command code (enter user's telephone number for remote control via short call) ID = user ID number 001-800 TEL = user's telephone number (max 16 digits) without (+) comprised of country code, operator's code and user's telephone number. the end symbol #; OUT= output number, that will be controlled, 1-32. 0-Disabled, 1=OUT1=RELAY,2-OUT2, OPT = 0 – disabled 1 – enabled, Sequence from the left to the right 1. User Enabled 2. Enable Arm/Disarm system by call NAME = User Name up to 31 characters.
INST000000_005_TEL# e.g. delete user associated with phone 37061611111 INST000000_005_37061611111	To delete a user's remote control access according phone number, use: 005 = Command code for deletion. TEL = User's phone number (16 digits max, without '+'), including country and operator codes. The number must match the one in the module's memory."
INST000000_006_ID e.g. delete user at index 200 INST000000_006_200	Delete user's phone number by index. 006= command code ID = Enter the user's index number from 001 to 800 to delete all data associated with the user.
INST000000_007_P#PER#HH:mm# e.g. INST000000_007_1#7#18:30#	Automatic periodical test settings 007= command code (Automatic periodical test) P= 0-test disabled, 1- test period by 24 hours, 2- period by hours PER= automatic test sending period from 1 to 99999 days or hours HH-hours 0-23, mm- minutes 0-59 e.g. INST000000 007 2#1#14:50# The test will be send every 1 hour
INST000000_008_APN#LOGIN#PSW# e.g. INST000000_008_internet### Apn="internet and no login and password.	DATA/GPRS/LTE network settings 008= command code (network settings) APN=31 symbols LOGIN=31 symbols PSW=31 symbols

INST000000_009_ADDR#PORT#PING#KEY# e.g. INST000000 009 cloud.topkodas.lt#1000#600#123456#	SERA cloud Service Parameters 009= command code (Remote control of the module over the Internet) ADDR = the format of IP address xxx.xxx.xxx (the numbers from 0 to 255 should be separated by dot or domain text length of up to 47 characters) PORT= TCP port number .Default:10000 PING= 600 default. KEY= App Key. App and remote service key. Default:"123456" Default parameters is in the picture bellow. We recommend do not change these parameters. Image: Statem Colors Image: Statemage Ima
INST000000_010_E	
e.g. deactivate cloud service [INST00000_010_0] e.g. activate cloud service [INST000000_010_1]	Enable or disable the 'SERA Cloud service' for APP and remote device connection. 010= command code (To activate the connection to the remote control server). E= 1- (enabled) or 0 - (disabled).
INST000000_011_E e.g. INST000000_011_1 - Enable GUEST mode e.g. INST000000_011_0 - Disable GUEST mode e.g. Dual command 011 and 004 set USER9 INST000000_011_1_004_9##1#10#Unauthorized# Enable Guest mode on USER9, set control OUT1 Username: 'Guest'	Enable/Disable GUEST (unauthorized call) mode on USER 9. APP and remote connection to device. 011= command code (activate GUEST mode on USER 9). Enable incoming call guest mode on USER 9 settings. Module will accept all unauthorized calls and do selected action (e.g. to control an output, gate) on USER 9. E= 1-enabled, 0-disabled
INST000000_012_TEL#OUT#OPT#NAME# e.g. INST000000_012_3706666666666#1#10#Jon#	Enter the user's telephone number for remote control via a short call without an index. USER NAME-only Latin characters is allowed inside SMS 012= Command code (enter the user's telephone number in the free space for remote control via a short call) TEL = The user's telephone number (max 16 digits) without the (+) sign, consisting of the country code, operator's code, and the user's telephone number. Use the end symbol #. OUT = Output number for remote control that will be controlled value= (0-32). 0 = Disabled, 1=OUT1(RELAY), 2=OUT2 and so on. OPT = 0 – Disabled, 1 – Enabled (Sequence from left to right): 1. User Enabled 2. Enable Arm/Disarm alarm system by call NAME = User Name up to 31 characters.
INST000000_013_TEL # NAME# e.g. INST000000_013_370666666666#Jon#	Add the user's telephone number for remote control via a short call to the free space of memory. Enable the user and assign control of RELAY (OUT1). Note: To assign a user to a specific index or enable user control for other outputs, utilize the commands 004 or 012. 013= Command code TEL = The user's telephone number (max 16 digits) without the (+) sign, consisting of the country code, operator's code, and the user's telephone number. Use the end symbol #. NAME: User Name (optional, up to 31 characters).
INST000000_018	View user phone numbers from the user database using: 018= Command code The response SMS will appear as: [Enabled],[ID],[Phone],[Output] Where: User Enabled (0 for disabled, 1 for enabled) ID= User index Phone= User phone number Output= Chosen output number for remote control.
INST000000_019_N#P e.g. INST000000_019_1#24 Set OUT1 as [Access Control]	To change the operation algorithm of the output 019= command code (To change the operation algorithm of the output) N = output number from 1 to 32 P = output operation algorithm. Set 0 to 24 0. Disable 9. System Armed Status 18. Pulse On ARM / DISARM 1. Bell 10. Alarm Indication 19. Output State 2. Buzzer 11. Lost Primary Chanel 20. Zone OK 3. Flash 12. Lost Secondary Chanel 21. Activate by ARM/DISARM Command 4. System State 13. Fire Sensor 22. Activate by SLEEP/DISARM 6. Remote Control & Automation 15. Access Gained 23. Activate by STAY/DISARM Command 7. AC OK 16. STAY Armed Status 24. Access Control 8. Battery OK 17. SLEEP Armed Status 24. Access Control
INST000000_020_N	Invert output state 020= command code (outputs inversion) N = output number from 1 to 32.

INST000000_021_N#ST	Output activation or deactivation 021= command code (Output activation or deactivation) N = output number 1-32 ST = output mode 0 – OFF, 1- ON
INST000000_022_N#TIME#	Output activation for the time interval 022= command code (Output activation for the time interval) N = output number 1-32 TIME = 0-9999999 Time interval in seconds for the output activation.
INST000000_030_ST	Change security system's mode (ARM/DISARM/STAY/SLEEP) 030= command code (Change security system's mode) ST = 0-DISARM, 1-ARM, 2-STAY, 3-SLEEP
INST000000_031_ZN#BYP	Zone bypassing by sms command 031= command code (Zone bypassing) ZN = zone number from 1 to 32 BYP= 1 – zone bypass 0- zone active.
INST000000_063_S	 iButton keys learning/deleting mode 063= command code (iButton keys learning/deleting mode) S=iButton keys entering/deletion mode. 0-Disable iButton/RFID keys learning mode 1-Enable iButton/RFID keys learning mode 2-iButton/RFID keys deleting mode. To delete these keys from memory, which will be touched to the reader
INST000000_070_N#VALUE # e.g. INST000000_070_1#23.5#	Programming of max sensors value upon reaching, the SMS message with "High Alarm" text will be sent 070= command code (max sensors value upon reaching which, the SMS message with "High Alarm" text will be sent) N = sensor number VALUE= Format 0000.00 High Alarm Value
INST000000_071_N#VALUE #	Programming of minimal sensors value upon reaching the SMS message with "Low Alarm" text will be sent 071= command code (min sensors value upon reaching which, the SMS message with "Low Alarm" text will be sent) N = sensor number VALUE = Format 0000.00 Low Alarm Value
INST000000_072_N#VALUE#	Programming of sensor max value upon reaching the selected output will be activated. For example cooling equipment 072= command code (sensor max value upon reaching the selected output will be activated.) N = sensor number VALUE= Format 0000.00 sensor max value upon reaching, the selected output will be activated.
INST000000_073_N#VALUE#	Programming of sensor min value upon reaching the selected output will be activated. For example heating equipment 073= command code (sensor min value upon reaching the selected output will be activated.) N = sensor number VALUE= Format 0000.00 Sensor min value upon reaching which, the output will be activated.
INST000000_090_NewInstPsw	Change installer's password (Installers password should be changed before exploitation of the module) 090= command code (Change of installer's password) NewInstPsw = New Installer's password.
INST000000_091_NewUserPsw e.g. INST000000_091_654321	Change user's password (User's password should be changed before exploitation of the module) 091= command code (Change user's password) NewUserPsw = New user's password.
INST000000_092	Remote reset of the module via SMS messages 092= command code (Remote reset of the module via SMS messages)

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INST000000_093_yyyy/MM/dd#HH:mm#	Time of the module setting via SMS message. The time is usually synchronized via a server or mobile network. However, if synchronization is disabled, it can be set manually via SMS. 093= command code (Time of the module setting via SMS message) Time format of the module: yyyy/MM/dd#HH:mm# yyyy -year MM-month 1-12 dd - day of the month 1-31 HH-hours 0-23 mm- minutes 0-59
INST000000_094_TEL#SMS e.g. INST000000_094_+370616111111#Helio	SMS from the module forwarding to the other phone number 094= command code (SMS from the module resending to the other phone number) TEL = phone number to which will be forwarded sms text SMS = sms text that will be send to the referred number. TEL=861611111111 local number or international format e.g. +370616111111 SMS text =Latin Charset After this commands could not be other commands like: 094 SMS 030 1 because all messages will be forwarded to other numer "SMS 030 1"
INST 000000_095_E	Zone Walk Test request 095= command code (Zone Test request) E = 1- test request activated, 0- test request deactivated When zone is activated, the bell generates the sound, ARM/DISARM system automatically turn off this function
INST 000000_096	Fire sensors reset.
INST000000_100_N	System state request: 100= command code (System state request) N = System state request type 1- System test request, Request information about the module (: IMEI, FW, LEVEL etc.) 2- the values of active sensors request 3 -Request about active zone states 4 -Request about output states 5 - System state request. The module will send information on input/output states and system state (ARM/DISARM/STAY).

10.2 The table of users SMS commands

lf n	USER ımber	123456 is not ir	commands are the list, SMS co	used, th ommand	ne phone numb Is from this pho	er must be i one number	in the list of will be bloc	f users S ked.	ERA	2> User	s/ /	Acce	ess control; if	the phone
(i) SER42 -														
File Settings Device	File Settings Devices 🖏 Read [F5] 📑 Write [F6] 🥌 Update About													
System Options GSM Communications	Ren	iote Control U:	sers table										Temporary access Date	/Time window
Isers/Access control				-			DEID IV-sus and	Kende Onde	OUT	A TO LET UC A TO L	100	Data En	Oburt Durts	
Innute Burgler Alerm 7/		En	User Name	Туре	User Tel.	Button Code	RFID Keycard	Keyb Code	001	ARMUDISARM	MIC	Date Eff	Start Date	Expiration Date
	nes 1	En Master	User Name	Type User	User Tel. +37000000000	00000000000000000000000000000000000000	0000000000	******	NONE		MIC		2019-02-25 16:24:26	2019-02-25 16:24:26
Inputs/Burglar Alarm Zo Outputs (PGM) Automation/Sensors	nes 1 1 1 2	D En ✓ Master	User Name	Type User User	+37000000000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	******	NONE OUT1				2019-02-25 16:24:26 2019-02-25 16:24:26	2019-02-25 16:24:26 2019-02-25 16:24:26

Table 7 the table of user's commands

USER123456_020_N	Change state of selected OUT output to the inverted state. Output state changes every time after sending command code. 020= command code (Change state of selected OUT output to the inverted state.) N = output number from 1 to 10.
USER123456_021_N#ST	Activate or deactivate selected output N. 021= command code (Activate or deactivate selected output N) N = output number from 1 to 10. ST= output mode: 0 – deactivated output, 1- activated output
USER123456_022_N#TIME#	Output activation for the time interval 022= command code (Output activation for the time interval) N = output number 1-10 TIME = 0-999999 Time interval in seconds for the output activation.
USER123456_030_ST	Change security system's mode (ARM/DISARM/STAY/SLEEP) 030= command code (Change security system's mode (ARM/DISARM/STAY/SLEEP) ST = Security system mode 0-DISARM, 1-ARM, 2-STAY, 3-SLEEP Enter user phone number in the SERA2> Users/ Access control list
USER123456_031_ZN#BYP	Zone bypassing by sms command 031= command code (Zone bypassing) ZN = zone number from 1 to 32 BYP= 1 – zone bypass 0- zone active.
USER123456_094_TEL#SMS	SMS from the module forwarding to the other phone number 094= command code (SMS from the module resending to the other phone number) TEL = phone number to which will be forwarded sms text SMS = sms text that will be send to the referred phone number
USER123456_100 _N	System state request: 100= command code (System state request) N = System state request type 1- System test request, Request information about the module (: IMEI, FW, LEVEL etc.) 2- the values of active sensors request 3 -Request about active zone states 4 -Request about output states 5 - System state request. The module will send information on input/output states and system state (ARM/DISARM/STAY).

11 System Info of device and Firmware Updates



11.1 Firmware Update

SERA2 > Firmware

This window let you update the firmware of the module.

SERA2 [PROGATE]					×
🖹 <u>F</u> ile 🔏 <u>S</u> ettings 🔒 Devices	🐻 Read (F5) 🛛 🚰 Write (F6) 🛑 Update 🖏 Help				
System Options System O	inware				
- Event List	1. Open firmware file				
Event Log	C:/Program Files (x86)/SERA2/FirmwareUpdates/PROGATE.enc		Browse		
Testing&Monitoring Firmware	Loaded firmware file version: PROGATE_u052307291832				_
SMART	2. Press [Start_FW Update]		Start FW Updat	e	
X II X		Preserv	ve Device Confi	guration	
Baal	3. If FW update doesn't start automatically in a few seconds, reset module to continue				
	4. Wait until end of process				
· (1) (1)					
The device's firmwa	are can be updated either through a USB connection or remotely over the internet using	the 'SERA	Cloud Serv	ice'.	

Firmware Update Steps:

- Always keep SERA2 software updated. Each SERA2 software version includes the latest firmware update files.
- (Optional) To change the default firmware file, click [Browse] and open the folder containing the new firmware file.
- To retain the device's current configuration after the update, check the [**Preserve Device Configuration**] box. If unchecked, the configuration will reset to default after the update.
- Click [Start Update].
- If the update doesn't start within a few seconds, reset the module.
- Wait for the process to complete.
- Reset module to continue.



12 Warranty Terms and Conditions

SAFETY INSTRUCTIONS FOR SERVICE PERSONS

Use the following list as a guide to find a suitable place for PROGATE module:

- Locate the module near a power outlet.
 Select a place that is free from vibration and shock.
- Place the module on a flat, stable surface and follow the installation instructions:
- Do NOT locate the module where persons can walk on the secondary circuit cable(s).
- Do NOT connect the module to electrical outlets on the same circuit as large appliances.
- Do NOT select a place that exposes the module to direct sunlight, excessive heat, moisture, vapors, chemicals or dust.
- Do NOT install the module near water (e.g., bathtub, wash bowl, kitchen/laundry sink, wet basement, or near a swimming pool).
- Do NOT install the module and its accessories in areas where there is a risk of explosion.
- Do NOT connect the module to electrical outlets controlled by wall switches or automatic timers.
- AVOID sources of radio interference.
- AVOID setting up the equipment near heaters, air conditioners, ventilators, and/or refrigerators.
- AVOID locating module close to or on top of large metal objects (e.g., metal wall studs).
- Safety Precautions Required During Installation
- NEVER install the module during a lightning storm.
- Ensure that cables are positioned so that accidents cannot occur. Connected cables must not be subject to excessive mechanical strain.

• The power supply must be Class II, FAIL SAFE with double or reinforced insulation between the PRIMARY and SECONDARY circuit/ENCLOSURE and be an approved type acceptable to the local authorities. All national wiring rules shall be observed.

Limited Warranty

UAB "Topkodas" warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, UAB "Topkodas" shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify UAB "Topkodas" in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from UAB "Topkodas". In such cases, UAB "Topkodas" can replace or credit at its option.

International Warranty

UAB "Topkodas" shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to UAB "Topkodas" must first obtain an authorization number. UAB "Topkodas" will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- Damage incurred in shipping or handling;
- Damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- Damage due to causes beyond the control of UAB "Topkodas" such as excessive voltage, mechanical shock or water damage;
- Damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- Damage caused by peripherals (unless such peripherals were supplied by UAB "Topkodas".);
- Defects caused by failure to provide a suitable installation environment for the products;
- Damage caused by use of the products for purposes other than those for which it was designed;
- · Damage from improper maintenance;

Damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

- (i) Freight cost to the repair center;
- (ii) Products which are not identified with UAB "Topkodas" product label and lot number or serial number;

Poducts disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim.

Under no circumstances shall UAB "Topkodas" be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against UAB "Topkodas", the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you. **Disclaimer of Warranties**

UAB "Topkodas" neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

WARNING:

UAB "Topkodas" recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

UAB "Topkodas" will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to UAB "Topkodas" must first obtain an authorization number. UAB "Topkodas" will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which UAB "Topkodas" determines to be repairable will be repaired and returned. A set fee which UAB "Topkodas" has predetermined and which may be revised from time to time, will be charged for each unit repaired. Products which UAB "Topkodas" determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

WARNING - READ CAREFULLY

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:



Inadequate Installation

The module must be installed properly in order to provide adequate protection.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons

With criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

• Failure of Replaceable Batteries

Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Compromise of GSM network

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent signal interference.

System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the module and that they know how to respond when the system indicates an alarm

Smoke Detectors

Smoke detectors may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fire is equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, and improper storage of flammable materials, overloaded electrical circuits, and children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on. • Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

GSM network

If GSM network are used to transmit alarms, it may be out of service for certain periods of time.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Inadequate Testing

Most problems that would prevent the module from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an accident, or any kind of construction activity inside or outside the premises.

•Security and Insurance

Regardless of its capabilities, the module PROGATE is not a substitute for property or life insurance. The module PROGATE also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

