

PROGATE

Cellular Gate Access Controller Quick setup guide

OR Full manual







Specifications

Network technology: LTE CAT-1 or GSM/GPRS/EDGE Administrators: up to 8 can receive SMS and Call Users database (Phones, iButton, RFID, Codes); up to 800 Power supply

AC 10-24 V 50 Hz ~ 200 mA max / DC 10-30 V 200 mA max Current consumption in idle state w/o external devices connected: up to 50mA Number of inputs: 2

Zone: NC, NO or EOL=5.6kΩ (settable) or analog: 0-30V (settable) Number of I/O input/output: 2 Open Drain 24V/1A Zone: NC_NO or EOI =5.6kO (settable) Relay Output: 1A 30 V DC. 0.5A 125 V AC Wiegand interface:

26-bit Wiegand format, 8-bit Keypad PIN/CODE format Maxim's 1-Wire® interface: iButton Keys DS1990A; temperature sensors DS18b20 Aosong 1-wire Humidity/Temperature Sensor AM23xx

Buffer for unsent events: up to 3072 events Nonvolatile flash Event LOG: up to 3072 events Dimensions: 73x62x26mm Operating temperature range: -20...+55 °C Module weight: 70g Package weight: 90g Humidity: 0-90% RH @ 0... +40°C (0-90% RH @ +32... +104°F) (non-condensing)

2. LED indication

	LED	Indication variations	Meaning
	POWER (green)	LED blinks, on 50ms,off for 1000ms	The module is functioning.
		Off	No power voltage.
	NET (yellow)	Lights continuously	Modem is registered
		Flashes, remains lit for 50ms, turns off for 300ms	Modem is being registered to the network.
		Blinking fast, 50ms on, and off for 50ms	PIN code of SIM card error. PIN code request should be removed
		Off	Modem is not registered
	DATA (red)	Lights continuously	Module contains unsent reports for user/server.
		Off	All reports have been sent.
	RELAY(blue)	On/Off	Relay state On/Off

Quick set up of the controller

- . Insert SIM card. Turn off PIN code requests 2 Screw GSM antenna
- Connect a 10-30VDC power supply.
- Note: Use the USB power supply only for configuration: it cannot power the modern
- Make a call to the module

ote: The first caller becomes the system administrator. The device activates the REL 2 seconds. This phone number is stored in the module's memory automatically, and reeting SMS with the module's IMEI is sent. Thereafter, other numbers are rejected.

this mode is acceptable, no further configuration is necessary."

Configuration and control methods:

SERA2 - configuration software via USB or Internet remotely

https://www.topkodas.lt/Downloads/SERA2_Setup.exe

SERANOVA - Free WEB app https://seranova.eu/login

SMS - configuration with INST commands.

Complete SMS commands in the Programming Manual at: https://www.topkodas.lt/product/progate-4g

3.1. SMS commands

In this guide, "" represents a single space character in SMS. Replace each " " with a space avoiding extras

Add user to Remote Control RELAY output via short call:

INST000000 013 TEL#NAME#

013= command code (add user's telephone number) TEL = user's phone; #= delimiter; NAME = User Name

e.g.INST000000_013_370666666666#Jon#

Add user Phone Number at Specific Index:

INST000000 004 ID#TEL#OUT#OPT#NAME#

004= command code (enter user's telephone number for remote control via short call) ID = user index 1-800 TEL = user's phone # OUT = Output number = (0-32), 0 = Disabled, 1=OUT1 (RELAY), 2=OUT2, OPT = 0 - disabled 1 - enabled. Sequence from the left to the right User Enabled/Disabled

Enable Arm/Disarm alarm system by call NAME = User Name

e.g.INST000000_004_1#370666666666#1#10#Jon#

Add/Edit admin User to receive SMS/DIAL notifications: INST000000 001 ID#TEL#SMS#DIAL#

001= command: ID = user index 1-8: TEL = telephone number international format without (+): SMS = notifications event filter: DIAL = event filter: #= delimiter Event filter from left to right 0-disabled; 1-enabled 1 Alarm/Restore (CID 100 group) Test Events (CID 600 group)

- 2. System ARM/DISARM (CID 400
- 3. System Troubles (CID 300 group) 4 Sensor1-Sensor32 Alarm/Restore

9 Input/Zone3 to n etc.

e.g. INST000000_001_1#37066666666666#0000000000#000000000# This example disable all User1 SMS and DIAL notifications.

6. Other Events

. Input/Zone1 Alarm/Restore

8. Input/Zone2 Alarm/Restore

Delete a user's by phone number: INST000000 005 TEL#

005 = Command code for deletion.TEL = User's phone number.The number must match the one in the module's memory.

e.g.INST000000 005 37061611111#

Delete user by index:

INST000000_006_ID ID = user's index number from 001 to 800.

! Delete all users in database! INST000000_003

View Users' Phone Numbers in Database INST000000 018

3.2. Setting parameters using SERA2 software

You can change the controller's settings with the SERA2 software if the default settings are not sufficient.

1 Download and install SERA2 from

https://www.topkodas.lt/downloads

- Connect the controller using a mini USB cable.
- Open SERA2: it auto-detects the device.

4. Click [Read] to view current configuration settings Note: Use [Read] to display current settings and [Write] to save changes to flash memory. 'File > [Save]' allows you to store settings for future use, facilitating guick configuration of multiple devices, 'File > [Open]' retrieves stored settings.

To reset to default settings, select 'Update FW' and leave 'Preserve settings' unchecked.

SERANOVA app 4.

With the SERANOVA app, users can remotely control the gate, manage users, and receive push notifications for all events."

Free WEB SERANOVA app: https://seranova.eu/login

Scan QR code and install SERANOVA app.







New User? Create your account now!

4.1. SERANOVA & SERA Cloud Service

Use the SERANOVA app or SERA2 remote connection with the activated SERA cloud service (default setting). Activate with SERA2 or SMS command: INST000000_010_1

> Imortantl Without a data plan deactivate the [SERA Cloud service] using SERA2 or SMS command: NST000000 010 0 to prevent module malfunction due to lost data connection

SMS command to set APN DATA/GPRS/LTE network settings INST000000 008 APN#LOGIN#PSW#

e.g. INST000000 008 internet### where APN='internet':

4.2. Ways to get device IMEI (UID)

- · First call to module. The caller will receive a greeting SMS with the IMEL of the module
- By sending an SMS command: INST000000_100_1
- Run SERA2 and connect device to USB. Go to: SERA2 > System Options > System Info.

4.3. Add a new system to SERANOVA app

- Enter the IMEL (UID)
- Enter App key (default: 123456).
- Enter user access code (default: 123456). Without it, users can't control the system.
- Enter system SIM phone number
- Enter system name.
- Press [Save]

4.4. Add additional system

A SERANOVA user can add an unlimited number of systems. Go to SYSTEMS> [Add new system]

4.5. Add a new user

 New users should download the SERANOVA app and set up an account

 SERANOVA>Menu>Users> [Add new User]. Fill all required fields: email. user code. output. user permissions. Enter a valid email address of a user who already has a SERANOVA

account. The system will automatically be added to the user's account.

4.6. Add the System manually

Users must log in to their SERANOVA account with the email added by the admin to the user list. The admin provides PROGATE details (IME) and user access code), allowing the user to add the system to their app. Refer to section 4.3 for more details.

5. Installation & wiring

All wiring should be done with the power supply disconnected!

5.1. Mounting Options

Choose from wall mounting (no enclosure opening required), Velcro adhesive fasteners, DIN Rail mountina.

PROGATE 5.2. Wiring diagram for DC 10-30V AC 12-24V Max 0.2A hputa/ Outputs WEGAND Reader RELAY automatic gate 8 21opener

Connect power supply Connect PROGATE relay's 0000000000000000 NC/NO contacts to gate control input Use position sensor for gate status. On gate movement. relay K1 signals to 1000000000000000 PRÓGATE's IN1, reflecting gate position (closed or open) 24V NOM See full manual for more Gate position diagrams.

6. Wiegand keypad & RFID card reader wiring PROGATE Connect Wiegand keypad DC10-30V AC12-24V Max 0.2A Inputs/ Outputs WEGAND Reader 1-WFE Sensors RELAY as shown in the Fig 88 8 2 - How to configure Wiegand keypad Install SERA2 software. Device> PROGATE Connect the module to the Gree Whit Blac computer via mini USB DC 10-16V.0.5A 6666 cable 2828 Enter RFID Kevcard codes manually In that case, you have to: 2 3 5 6 Go to "Users& Remote Control" table. Enter RFID Keycard number and other required parameters Enter RFID Keycard codes for users. Select RFID Keycard action OUT/ARM/DISARM_etc.

- Write the configuration into the module by pressing "Write" icon
- B) Enter RFID Keycard codes automatically via SERA2 software.
- · Press [Learn iButtons/RFID mode] in: SERA2> System Options> General System Options
- · Write configuration by pressing "Write" icon.
- Enter RFID learning/ deleting mode by sending SMS C) message
- Send SMS: INST00000 063 S
- S= keys entering/deletion mode.
- 0- Disable

A)

1-WRE Sensors Betten

Gate control unit

- Kevs learning mode
- 2- Kevs deleting mode

