GATOR



# **GSM gate controller GATOR** Installation manual

June, 2020



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# Safety precautions

The GSM gate controller should only be installed and maintained by qualified personnel.

Please read this manual carefully prior to installation in order to avoid mistakes that can lead to malfunction or even damage to the equipment.

Always disconnect the power supply before making any electrical connections.

Any changes, modifications or repairs not authorized by the manufacturer shall render the warranty void.



Please adhere to your local waste sorting regulations and do not dispose of this equipment or its components with other household waste.



# **1** Description

GSM gate controller can remotely control automatic gates and other equipment.

Users can control controller with *GATOR* application, telephone calls and SMS messages. The controller can recognize up to 7 administrator and 990 user telephone numbers. A user control schedule and counter for how many times a specific user can control the system can be set for the controller. The GSM controller can send SMS messages informing when inputs and outputs are activated and restored (the text of the SMS messages is customizable). The controller is capable of sending event messages to the receiver of a security company. Connecting a WiFi (*W485*) or Ethernet (*E485*) module to the controller can send event messages and control the controller over a wireless or wired internet without using SIM card mobile data.

### Features

### **Remote control**

- With Mobile/Internet application GATOR.
- With SMS messages.
- With phone call.

### Messages for users

• Sends messages about events to the *GATOR* application or with text SMS messages.

#### Messages for the safety company

- Sends event information in Contact ID codes to TRIKDIS software and hardware receivers, which work with any monitoring software.
- Can simultaneously send event messages to the receiver of the safety company and work with the *GATOR* app.
- If connection with the main receiver is lost, the messages are automatically sent to a backup receiver.

### Inputs and outputs

- 2 inputs (IN), of selectable type: NO; NC; EOL.
- 2 universal inputs/outputs. Mode of operation is set as either input or output.
- 1 output (OUT) relay.

### Settings and installation

- Quick and easy installation.
- Addition of new users and deletion of existing users can be done with the **GATOR** app (when logged in with administrator rights), SMS message, **TrikdisConfig** software.
- Device can be configured either by connecting a USB Mini-B cable or remotely with the *TrikdisConfig* software.
- Remote updating of firmware.
- Two access levels for configuring the device, for the installer and for the administrator.





### **1.1 Specifications**

Parameter	Description
2G GSM modem frequencies	850 / 900 / 1800 / 1900 MHz
3G UMTS modem frequencies	800 / 850 / 900 / 1900 / 2100 MHz
Power supply voltage	9-32 V DC
	12-24 V AC
Current consumption	100 mA
Inputs	2, selectable type: NC, NO, EOL=10 k $\Omega$
Universal inputs/outputs	2, can be set either as input IN with type: NC, NO, EOL=10 k $\Omega$ , or output OUT (open collector (OC) 50 mA)
Output	1, relay, 1 A 30 V DC, 0,5 A 125 V AC
Unsent events memory	Up to 60 events
Event log memory	Up to 5000 events
Users who receive messages and have permission to control	7
Users who have permission to control	990
Operating environment	Temperature from –20 °C to +50 °C, relative humidity – up to 80% at +20 °C
Dimensions	92 x 62 x 26 mm
Weight	80 g

### **1.2 Controller elements**



- 1. Light indicators.
- 2. Frontal case opening slot.
- 3. USB Mini-B port for controller programming.
- 4. Terminal for external connections.
- 5. Nano-SIM card slot.
- 6. GSM antenna SMA connector.

# **1.3** Purpose of terminals

Terrinia	Description
AC/+DC Po	ower terminal (9-32 V DC positive; 12-24 V AC)
AC/-DC Po	ower terminal (9-32 V DC negative; 12-24 V AC)

www.trikdis.com



Terminal	Description
1 IN	1 <sup>st</sup> input, of selectable type NO, NC, EOL (factory setting: NO)
2 IN	2 <sup>nd</sup> input, of selectable type NO, NC, EOL (factory setting: Disabled)
СОМ	Common terminal
3 I/O	Input/output (factory setting: Disabled)
4 I/O	Input/output (factory setting: Disabled)
NC	Relay terminal NC
С	Relay terminal C
NO	Relay terminal NO
A RS485	Contact A of <i>RS485</i> bus
B RS485	Contact B of <i>RS485</i> bus

### **1.4 LED indication of operation**

Indicator	Light status	Description
NETWORK	Green solid	Connected to GSM network
	Yellow blinking	Indication of GSM signal strength from 0 to 5. Sufficient strength is 3.
DATA	Green solid	Message is being sent
	Yellow solid	There are unsent event messages in the data buffer
POWER	Green blinking	The power supply voltage is sufficient
	Yellow blinking	The power supply voltage is insufficient
	Red and yellow blinking	Configuration mode is on
TROUBLE	Off	No operation problems
	1 blink	No SIM card inserted
	2 blinks	The PIN code of the SIM card is incorrect
	3 blinks	Unable to connect to GSM network
	4 blinks	Unable to connect to <b>GATOR</b> or to the primary IP receiver
	5 blinks	Unable to connect to the backup IP receiver
	6 blinks	Internal clock is not set
	7 blinks	The power supply voltage is insufficient

If the LED indication is not working, check the power supply and connections.

Note:	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.

### 1.5 GSM gate controller GATOR standard packing list

-	GSM gate controller GATOR	1 pc.
-	GSM antenna	1 pc.
-	Resistor 10 kΩ	3 pcs.
-	Double-sided adhesive tape (5 cm)	1 pc.
-	Screw	2 pcs.

# 2 Wiring schematics for the GSM gate controller

### 2.1 Fastening

- 1. Remove the top lid. Pull out the plug part of the terminal block.
- 2. Remove the PCB board.
- 3. Fasten the base of the case in the desired place using screws.
- 4. Reinsert the board and the terminal block.
- 5. Screw the GSM antenna in.
- 6. Insert the nano-SIM card.
- 7. Close the top lid.





### 2.2 Schematic for connecting the power supply

Using wires, connect the controller according to the schematic shown below.



### **2.3 Schematics for connecting inputs**

The controller has four inputs IN (two of which are universal and can operate either as inputs or outputs) for the connection of various alarm sensors. These inputs can operate in NC, NO, EOL modes. Connect the inputs according to the set input type (NC, NO, EOL) as is shown in the schematics bellow:



### 2.4 Schematic for connecting the relay



Above is the schematic for connecting the relay when the controller is connected to a DC power source. Using the terminals of the relay, it is possible to remotely control (turn on/off) various electric devices. The I/O terminal of the controller must be set to an output (OUT) mode.



### 2.5 Schematic for connecting an automatic gate opener to the controller



### All wiring should be done with the power supply disconnected.

The purposes and voltages of the automatic gate opener's terminals are described in detail in the automatic gate's manual.

The automatic gate's IN, COM terminals are used for controlling the gates.

The automatic gate has a gate state output (OUT) that shows when the gates are closed and when they are open. The gate's state output can be a voltage output or a relay output. In the schematic, relay K1 is connected to a voltage automated gate output. There is voltage (~230V) between the voltage outputs OUT and N of the automated gates when the gates are open. The intermediate relay K1 is turned on when the gates are open and it activates the controller's 1IN input. The state of the controller's 1IN input gives precise information about the state of the gates (when the gates are closed and when they are open).

Configuring the controller with the gate state indication is described in chapter 5.9 "Settings for gate state indication".



### 2.6 Schematic for connecting for RFID reader (Wiegand 26/34)

Configuring controller with an RFID Reader is described in chapter 5.3. ""IN/OUT" window". Schematic for connecting of single RFID reader to *GATOR* controller.



Schematic for connecting of two RFID readers to **GATOR** controller.





### 2.7 Schematic for connecting the W485 WiFi module

Controller firmware version from 1.06.

The **W485** module sends messages to the CMS (Central Monitoring Station) and to **GATOR** apps using a WiFi internet router. When WiFi connectivity is available, the controller sends event messages via the **W485** module. When WiFi connectivity is disrupted, the controller sends messages via GPRS. When WiFi connectivity is reestablished, the controller returns to sending messages via **W485**.

Configuration of the **W485** WiFi module to work with the controller is described in chapter 5.4. ""Modules" window".

You do not need a SIM card, when using the *W485* with the controller.

### 2.8 Schematic for connecting the E485 "Ethernet" module

Controller firmware version from 1.06.

The **E485** sends messages to the CMS (Central Monitoring Station) and to **GATOR** apps using a wired internet connection. Using the **E485** with controller, CMS and **GATOR** messages are sent over wired Internet and mobile Internet is not used. If a wired internet connectivity is disrupted, the controller sends messages via the mobile Internet. When the wired Internet connectivity is re-established, controller starts sending messages via **E485**.

Configuration of the *E485* module to work with the controller is described in chapter 5.4. ""Modules" window".

You do not need a SIM card, when using the *E485* with the controller.





# 3 Quick set up of the controller

Note: The controller comes factory pre-configured to work. A call from any phone to controller's SIM card number will turn on the 5 OUT relay output for 3 (three) seconds. The controller can be installed without any additional configuration if such operation mode is acceptable.

- 1. A nano-SIM card must be inserted into the controller. Turn off PIN code requests for the card before inserting it into the controller.
- 2. Connect a power source to the controller (see 2 "Wiring schematics for the GSM gate controller").
- 3. Turn on the power for the controller. This should trigger the following controller LED indications:



- The "Power" indicator should blink green;
- The "Network" indicator should be green solid and blink yellow.

The default settings allow control by anyone who calls the phone number of the SIM card inserted into the controller.

If you want to allow only particular people to control the controller, send an SMS command with user phone numbers, who are authorized (example SMS command: **SETU 123456 +370xxxxxx#Peter**). After receiving such command, controller will react only to the phone numbers on the list. The controller will ignore incoming phone calls from other numbers.

**Note:** If you wish to alter the default settings or turn on other functions of the controller, refer to chapter 5 ",Setting of parameters using TrikdisConfig software".

### 4 Remote control

### 4.1 Control with phone call

**Note:** The first one to call (or send an SMS to) the controller will become the system administrator and will be the only one who can administer and control the controller with SMS commands.

Call the number of the SIM card inserted into the controller. The controller automatically rejects the call and turns on the <u>5 OUT</u> relay output for 3 (three) seconds. Default settings allow anyone who calls the number of the SIM card inserted into the controller to control.

### 4.2 Control with phone keyboard

Controller answers and allows to control the outputs with a phone call the user is allowed to control several outputs OUT:

- 1. Call the controller's SIM card number. The controller will accept the call.
- 2. Using the phone keyboard, dial the control command (command examples can be found in the table **DTMF control commands**).

DTMF code	Function	Description
OUTPUT*STATE#	Output control	Output control command (turn on/turn off; turn on/turn off for pulse time).
		<b>OUTPUT</b> – number of the controlled output.
		STATE – control command:
		<b>0</b> – turn off output;
		<b>1</b> – turn on output;
		<b>2</b> – turn off output for pulse time;
		<b>3</b> – turn on output for pulse time;
		(output pulse time can be set using the <i>TrikdisConfig</i> program, in the Input/Output settings table)
		# - control command end symbol.
		E.g. (turn on output 5): <b>5*1#</b>
		E.g. (turn on input 4 for pulse time): <b>4*3#</b>

### DTMF control commands



DTMF code	Function	Description
#	Command end symbol	If you made a mistake writing a command, dial <b>#</b> and enter the control command again.

### 4.3 Control using GATOR Cloud

With *GATOR cloud* users will be able to control controller remotely. They will also be able to see the system state and receive all system event messages.

1. Download and launch the *GATOR* app or use the browser version of *GATOR* at <u>https://app.thegator.app/login</u>.



- 2. Log in with your user name and password or register and create a new account.
- 3. Choose Add new system and enter the controller *Unique ID (IMEI)* number found on the product or on the packaging sticker.

Systems	Add your syst	tem
Unique ID ? Unique ID may be 12,15 or 16 symbols long.	<	Enter the IMEI code. Youcan find it here: - on the package; - on the back of the controller housing; - TrikdisConfig as a Unique ID.
	Next	
	Skip	

**IMPORTANT:** When adding the controller to **GATOR** app:

- 1. The *Protegus service* must be turned on. Turning on the service is described in chapter 5.5 ""IP reporting" window";
- 2. The power supply must be turned on ("POWER" LED must blink green);
- 3. Must be registered in to network ("NETWORK" LED must be green solid and blink yellow).
- 4. After adding the controller to *GATOR* choose Settings in the newly opened window.

=	Gatc	or 1 INE	*
Status Not working Push to Start		Ċ	
w Vartai	*		
Locked	•		

5. In the window that opens, click **Devices**.



=	Gator 1 ONLINE	*
<	Settings	
	Q Users	
	Devices	
	Permission schedules	

6. In the window that opens, click **Settings**.

	Gator 1 ONLINE	*
<	Devices	Edit
+ Add nev	v device	
0	Vartai	

7. Output OUT5 settings must specify the output operating mode Level or Pulse.

=		Gator 1 ONLINE	*
<		Choose device	
Active controller			
Out 5			~
Controller name			
Vartai			
		Next	
		1 of 2	
=		Gator 1 ONLINE	*
<		Customize device	
Icon (click icon to change it	)		
	¥	· · · · · · · · · · · · · · · · · · ·	
Controller type			
Pulse time			
5			
		Time settings	
		Done	
		2 of 2	

8. After clicking on a PGM button, the controller output is turned on. (Example: PGM – output turned on, the PGM operation mode **Pulse** is set).



=	Gato ONLIN	r 1 NE	*
Status			
At work Push to Stop		×	
·@:	*		
Vartai 00:08 Unlocked	•		

### 4.4 Adding a Widget on your phone

The gate control Widget can be placed on your phone's home screen. The controller must be registered to *GATOR cloud*. Log in to *GATOR app* on your phone. Close the *GATOR* window.

Touch the screen with your finger and hold. A settings bar will appear.

1. Press Widgets.





# **GSM gate controller GATOR**

Find GATOR (Switch) in the settings bar.

3. Choose controller PGM Output 5.

5. An icon will appear on the phone's screen.

4. Press ADD WIDGET.

2. Select GATOR (Switch).







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### **GSM gate controller GATOR**

Tele2 autor

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Tele2

GATOR

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GATOR Gator ■ 10:11 10:11

**追び 🙃 🔐 83% 💷** 10:11

6

Return to the home screen. Press the icon.

A circle that shows when the PGM is turned on will appear on the screen.

6. When the controller is connected to the automatic gate with gate state indication, the icon will show the state of the open/closed gates.

### 4.5 Control with SMS messages

Control the relay output OUT5 with these SMS commands:

OUTPUT5 xxxxxx ON

OUTPUT5 xxxxxx OFF

### **OUTPUT5 XXXXXX PULSE=002**

XXXXXX	6-symbol administrator password. (default code – 123456).
ON	Turn on output.
OFF	Turn off output.
PULSE=ttt	Turn on output for a specified time. "ttt" is pulse time in seconds.

You can control other outputs with SMS, but first they need to be turned on in *TrikdisConfig*.

Command	Data	Description
OUTPUTx	ON	Turn on output. "x" – output number.
		E.g.: OUTPUT5 123456 ON
	OFF	Turn off output. "x" – output number.
		E.g.: OUTPUT5 123456 OFF

### SMS control command list



Command	Data	Description
	PULSE=ttt	Turn on output for a period of time. "ttt" is pulse time in seconds, from 1 to 999. E.g.: <i>OUTPUT5 123456 PULSE=002</i>

### 4.6 Configuration with SMS messages

#### 1. Changing the administrator's password

For safety reasons, change the default administrator password. Send an SMS message of this format:

### **PSW 123456 xxxxxx**

**123456** Default administrator password.

**XXXXXX** New 6-symbol administrator password.

#### 2. Allow only authorized users to control the system

You can allow only specific people to control the system. From an administrator's phone, send SMS messages with the users' phone numbers and names:

### SETU xxxxxx +PHONENR#NAME

XXXXXX	6-symbol administrator password.
PHONENR	User's phone number.
NAME	User's name or e-mail.

Once the first number is added to the controller's user phone list, the controller will react only to phone calls from the numbers on the list. The controller will ignore calls from other numbers.

#### 3. Give administrator rights to another user

You can give administrator rights to other people. They will receive system information messages and will be able to add users. Send an SMS message of this format:

### SETA xxxxxx Nrx=+PHONENR#NAME

XXXXXX	6-symbol administrator password.
Nrx	x – administrator's number in the list. (If you write <b>1</b> , you will transfer your administrator rights to another user.)
PHONENR	User's phone number.
NAME	User's name or e-mail.

#### SMS configuration command list

Command	Data	Description
INFO		Request information about the controller. The response will include: controller type, IMEI number, GSM signal strength, power voltage magnitude, software version, serial number, date and time. E.g.: <i>INFO</i> 123456
ASKI		Input status inquiry. E.g.: ASKI 123456
ASKO		Output status inquiry. E.g.: ASKO 123456
SETA	NrX=phonenr#name	Add administrator to list. Adds the phone number and name to the specified line. The number must be separated from the



Command	Data	Description
		name with a hash (#). The number must start with "+" and the
		International code. $E_{\rm m}$ : SETA 123456 Nr2-+37061234567#John
		E.g SETA 123430 NTS-+37001234307#JUTIT
	NrX=DEL	E g : SETA 123456 Nr2-DEL
	nhononr#namo	Add now year. Adds the phone number and name to the list. The
SETU	phonenr#nume	number must be separated from the name with a hash (#). The number must start with "+" and the international code.
		E.g.: SETU 123456 +37061234567#Peter
DELU	phonenr	Delete user with specified phone number. E.g.: <b>DELU 123456 +37061234567</b>
	name	Delete user with specified name. E.g.: <b>DELU 123456 Peter</b>
SETB	Email/phoneNo	Add entry into black-list (e-mail; phone No.).
		E.g.: SETB 123456 VardaS@mail.lt
		E.g.: SETB 123456 +37060123456
DELB	ALL	Delete all black-list. E.g.: DELB 123456 ALL
	Email/phoneNo	Delete a particular entry from the black list (for e-mail field small and capital letters are important).
		E.g.: DELB 123456 VardaS@mail.lt
		E.g.: <b>DELB 123456 +37060123456</b>
RESET		Restart the controller. E.g.: <b>RESET 123456</b>
PSW	New password	Change password. E.g.: <b>PSW 123456 654123</b>
ΤΧΤΑ	Object name	Set object name. E.g.: TXTA 123456 House
ΤΧΤΕ	N1= <text></text>	Set SMS text about input or output activation. N1N5 is the
		number of the contact on the terminal block.
	N5= <text></text>	E.g.: TXTE 123456 N1=Alarm in the living room
TXTR	N1= <text></text>	Set SMS text about input or output recovery. N1N5 is the
		number of the contact on the terminal block.
	N5= <text></text>	E.g.: TXTR 123456 N5=Relay turn off
SETD	IDx=yy	Set inactivity time for input "x". "yy" is inactivity time in minutes, from 0 to 2880. When the input is activated, the controller will send a notification and will not react to any further circuit disruptions during the set inactivity time. If 0 is entered, inactivity will be turn off. E.g.: <b>SETD 123456 ID1=30</b>
RESD	IDx	Resets inactivity time for input "x", if the countdown has started. E.g.: <b>RESD 123456 ID1</b>
TIME	YYYY/MM/DD,	Set date and time.
	HH:mm:ss	E.g.: TIME 123456 2018/01/03,12:23:00



Command	Data	Description
RDR	PhoneNR#SMStext	Forwards the SMS text to the specified number.
_		E.g.: RDR 123456 +37061234567#Refill account by 10EUR
UUSD	*UUSD code#	Sends UUSD code to mobile operator. Operator specified UUSD codes are for checking or refilling the SIM card's balance and for similar operations. E.g.: <b>UUSD 123456 *245#</b>
CONNECT	Protegus=ON	Connect to Protegus cloud.
		E.g.: CONNECT 123456 PROTEGUS=ON
	Protegus=OFF	Disconnect from Protegus cloud.
		E.g.: CONNECT 123456 PROTEGUS=OFF
	APN=Internet	APN name. E.g.: CONNECT 123456 APN=INTERNET
	USER=user	APN user. E.g.: CONNECT 123456 USER=User
	PSW=password	APN password. E.g.: CONNECT 123456 PSW=password
	Code=password	Change Protegus Cloud login password.
		E.g.: CONNECT 123456 Code=123456

# 5 Setting parameters using TrikdisConfig software

With *TrikdisConfig* you can change the controller's settings (if default settings are not enough) according to the program window descriptions below.

- 1. Download the configuration software *TrikdisConfig* from <u>www.trikdis.com/lt</u>/ (enter "TrikdisConfig" in the search field) and install it.
- 2. Using a flat-head screwdriver, remove the controller's lid as shown below:



- 3. Connect the controller to a computer using a USB Mini-B cable.
- 4. Launch the configuration software *TrikdisConfig*. The program will automatically recognize the connected device and will automatically open the controller configuration window.
- 5. Click **Read [F4]** to see current controller parameters. If prompted, enter administrator's or installer's code in the pop-up window.
- Note: The button Read [F4] will make the program read and show the settings currently saved on the device.

The button Write [F5] will save the settings made in the program to the device.



The button **Save [F9]** 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.

The button **Open [F8]** will allow to choose a configuration file and open saved settings.

If you want to revert to default settings, click on the **Restore** button at the bottom left of the window.

### 5.1 TrikdisConfig status bar

After connecting the controller to the *TrikdisConfig* software, the software will show information about the connected device in the status bar:

IMEI/Unique ID: 866191036964542			
Status: reading done Device: (	3V17_1210 SN:002484 BL: 1.02 FW:1.08 HW: State USB		
Name	Description		
IMEI/Unique ID	The device's IMEI number		
State	Operational state		
Device	Device type (must show <i>GV17</i> )		
SN	Device's serial number		
BL	Launcher version		
FW	Device's firmware version		
HW	Device's hardware version		
State	Type of connection with the software (with USB or remote)		
Role	Access level (shown after access code is approved)		

When the button **Read [F4]** is clicked, the program will read and show the settings currently saved on the controller. With *TrikdisConfig*, adjust the required settings according to the program window descriptions below.



### 5.2 "System Options" window

FrikdisConfig 1.66.20 GV17_1	210			- 🗆 X
🔅 Program 🛛 🎤 Action	🕮 About			
System Options IN/OUT Modules IP Reporting User list Events Log Firmware	Read [F4]       Write [F5]         General       Object ID         Object name       Time synchronization         SMS time synchronization       Administrator Code         SMS language       Hang-up after	Open [F8] Sa	IVE [F9] SIM SIM card pin APN Login Password	Disconnect
	Periodical Test		][	
Remember password  Default settings Restore IMEI/Unique ID: 866191036964542	Test Enable Test period Start test at Test SMS text To Protegus Cloud	1 day(s) 0 h ✓ 13:35 Periodical test ✓		
Status: reading done	Device: GV17_1210 SN: 002484	BL: 1.02 FW	:1.08 HW:	State USB

#### Settings group "General"

- **Object ID** enter account number (4 symbol hexadecimal number, 0-9, A-F), provided by the central monitoring station (**Do not use FFFE, FFFF Object ID**).
- **Object name** every event will be sent with the object name.
- **Time synchronization** choose a source for setting the time.
- **SMS time synchronization** check the box and enter the SIM card phone number of the controller. The phone number must be with an international code.
- Administrator Code with this code it is possible to change all of the parameters of the controller.
- SMS language SMS messages are sent with the symbols of the chosen language.
- Hang-up after the controller declines the call after the specified time.

#### Settings group "Periodic test"

- **Test Enable** if the box is ticked, periodic test messages are enabled.
- **Test period** setting of test sending time period.
- Start test at setting of test start time.
- Test SMS text enter the test SMS message text.
- To Protegus Cloud if the box is ticked, the test message will be sent to GATOR apps.

#### Settings group "SIM"

- SIM card PIN enter the PIN code of the SIM card.
- **APN** enter APN name.
- Login if required, enter user name.
- **Password** if required, enter password.



# 5.3 "IN/OUT" window

FrikdisConfig 1.66.20 GV17_1210	0										-		×
🔅 Program 🔗 Action	DAbout												
	Read [F	4] W	rite [F5]	Open [F8]	Sav	e [F9]				Disconne	ct		
System Options IN/OUT Modules	IN/OU	T Schedul	er 1gs					_	_				
IP Reporting	Termina	a Function	SMS event text	SMS restore text	Type	Inactive, m	ir Delav	CMS	No res	t. Pulse Time, s	Sched	Assian IN	
lleer liet	1 IN	Input	IN1 event	IN1 restore	NO	0	400			0	-	N/A	11
User list	2 IN	Disabled	IN2 event	IN2 restore	N/A	0	400			0	-	N/A	1
Events Log	3 1/0	Disabled	1/O 3 ON	I/O 3 OFF	N/A	0	400			0	-	N/A	1
Firmware	41/0	Disabled	1/0 4 ON	I/O 4 OFF	N/A	0	400			0	-	N/A	1
	5 OUT	Output	Relay ON	Relay OFF	Pulse	0	400		-	3		1 IN	
	Wiegar	nd reader m	ode	Disabled	•	Entry/Exit	event wit	h output					
				Disabled									-
				Dual Reader									
				Single Reader									

#### "IN/OUT" tab

- Terminal controller's input and output terminal numbers
- Function terminal type (input, output, turned off).
- **SMS event text** enter SMS message event text.
- SMS restore text enter SMS message text for when terminal is restored.
- **Type** specify input type (NC, NO, EOL=10kΩ).
- **Inactive** –input will be inactive for specified time after first activation. Enter 0 if you want to turn this function off.
- **CMS** if box is ticked, the message will be sent to CMS (Central Monitoring Station) and to **GATOR** app.
- No rest. do not send restore event.
- Pulse time time for which the output is turned on, when output is set as Pulse type.
- Sched assign a schedule number for controlling the output.
- Assign IN assign input (IN) to output to see the actual state of the device depending on the input's state.
- Wiegand reader mode specify the number of "Wiegand" RFID readers connected to the controller.
- Entry/Exit event with output ticking the field will send Entry/Exit event messages, when output is controlled remotely.



### "Scheduler" tab

<b>#</b> TrikdisConfig 1.66.20 GV17_1210																		3	-	×
🏠 Program 🥜 Action	🛄 Ab	out																		
I	Rea	d [F4]	Write [f	5]			Oper	n [F8]		Sa	ve [F9	]				D	iscon	nect		
System Options	IN/		cheduler																	
IN/OUT																				
Modules				Start time					_	_	_	End time			_			_		
IP Reporting	ID	Enable	Output mode	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Llser list	1	~	Level	08:00	~		~	~	~			13:00	$\checkmark$		~	~				
Events Lee	2		Level	00:00								00:00								
Events Log	3		Level	00:00								00:00								
Firmware	4		Level	00:00								00:00								
	5		Pulse	00:00								00:00								
	6		Pulse	00:00								00:00								
	7		Pulse	00:00								00:00								
	8		Pulse	00:00								00:00								
	9		Pulse	00:00								00:00								
Remember password	10		Pulse	00:00								00:00								

- Enable enable the time schedule for when the controller will control the output.
- Start time specify the time and days of the week from when the output will be turned on.
- End time specify the time and days of the week until when the output will be turned on.

### 5.4 "Modules" window

### "Modules" tab

If there is wireless internet (WiFi) or wired internet at the controller installation site, the **W485** WiFi module or the **E485** "Ethernet" module can be connected to the controller. The module will be able to transfer data to **GATOR cloud** and CMS (central monitoring station) via the Internet. Using a module (**W485** or **E485**) with controller: 1) does not use mobile internet, it is also possible to disable controller GPRS data transmission; 2) You can use the controller without a SIM card (controlled by the **GATOR** apps).

📫 TrikdisConfig 1.66.20 GV	7_1210					-		
🔅 Program 🥜 Action	🛄 About							
	Read [F4	] Write [F5]	C	pen [F8]	Save [F9]	Disconnect		
System Options	Module							
IN/OUT	Wodule	3					_	-
Modules	ID	Module		Serial No.	Name	Firmware version		
modules	1	Not available	<		Expander ID1			
IP Reporting	2	Not available			Expander ID2			
User list	3	W485 (W17u) module			Expander ID3			
Events Log	4	E485 communicator			Expander ID4		1	
r	5	Not available			Expander ID5			
Firmware	6	Not available			Expander ID6			
	7	Not available			Expander ID7		1	
	8	Not available			Expander ID8			

- **Modules** select the module that is connected to the gate controller via RS485 from the list.
- Serial No. enter the module serial number (6 digits), which is indicated on stickers on the module's case and packaging.



#### "Parameters" tab

### WiFi module W485 settings window

TrikdisConfig 1.66.20 GV17_12	210					×
🔅 Program 🖉 Action	🕮 About					
System Options IN/OUT	Read [F4] Write [F5] Modules Parameters Device settings	Open [F8]	Save [F9]	Disconnect		
IP Reporting User list Events Log Firmware	DHCP mode Static IP: Subnet mask: Default gateway:	<ul> <li>✓</li> <li>0.0.0.0</li> <li>255.255.255.0</li> <li>192.168.1.254</li> </ul>	Disable i card Use dial is conne Disable t	indication of the absence of a SIM and SMS when the internet module cted the use of SIM card mobile data	<ul> <li>□</li> <li>□</li> </ul>	
	Wifi SSID name Wifi SSID password	TRIKDIS				

#### "Device settings" settinds group

- DHCP mode WiFi module's mode for registering to network (manual or automatic). Check the box (automatic registration mode) and the WiFi module will automatically scan the network settings (subnet mask, gateway) and will be assigned an IP address.
- Static IP static IP address for when manual registering mode is set.
- Subnet mask subnet mask for when manual registering mode is set.
- **Default gateway** gateway address for when manual registering mode is set.
- Wifi SSID name name of the WiFi network that the W485 will connect to.
- Wifi SSID password WiFi network password.

#### "Working mode" settings group

- **Disable indication of the absence of a SIM card** checking the box will disable the indication of the absence of the SIM card in the controller.
- Use dial and SMS when the internet module is connected checking the box will enable control of the gate controller via call and SMS. If the field is not checked and there is a Wi-Fi network, then the call and SMS messages are not used. If the field is unchecked and there is no Wi-Fi network, then controller can manage call and SMS messages. Controller will send SMS messages to the user.
- Disable the use of SIM card mobile data checking the box will disable the use of mobile data from the SIM card. Data will only be sent via module *W485*. If the Wi-Fi network is disconnected, controller will store data in memory. After restoring the Wi-Fi network, the controller will send the saved data via the Wi-Fi *W485* module.



### "Ethernet" module E485 settings windows

TrikdisConfig 1.66.20 GV17_12	210			-	$\times$
🔅 Program 🎤 Action	🕮 About				
	Read [F4] Write [F5]	Open [F8]	Save [F9]	Disconnect	
System Options	Modules Parameters				
IN/OUT					
Modules	Device settings		Working mode		_1
IP Reporting	DHCP mode	✓	Disable indication card	n of the absence of a SIM	
User list	Static IP:	0.0.0.0	Use dial and SMS	when the internet module 🗸	
Events Log	Subnet mask:	255.255.255.0	is connected	f SIM card mobile data	
Firmware	Default gateway:	192.168.1.254			

#### "Device settings" settings group

- **DHCP mode** "Ethernet" module's mode for registering to network (manual or automatic).
- Static IP static IP address for when manual registering mode is set.
- Subnet mask subnet mask for when manual registering mode is set.
- **Default gateway** gateway address for when manual registering mode is set.

#### "Working group" settings group

- **Disable indication of the absence of a SIM card** checking the box will disable the indication of the absence of the SIM card in the controller.
- Use dial and SMS when the internet module is connected checking the box will enable control of the gate controller via call and SMS. If the field is unchecked and there is internet, then SMS and calls are not used. If the field is unchecked and there is no Internet, then controller can manage call and SMS messages. Controller will send SMS messages to the user.
- Disable the use of SIM card mobile data checking the box will disable the use of mobile data from the SIM card. Data will only be sent via module *E485*. If the internet disappears, controller will store data in memory. When the Internet is restored, the controller will send the saved data via the "Ethernet" *E485* module.

📫 TrikdisConfig 1.66.20 GV17_121	0						-		×
🔅 Program 🔗 Action	🕮 About						_		
System Options IN/OUT	Read [F4] Write	[F5]	Open [F8]	Save [F9]		Disconnec	ct		
Modules IP Reporting	Communication type Domain or IP	TCP/IP 0.0.0.0	-	IP Ping period	<b>V</b>	5 60	s	in	
User list Events Log	Port Phone number	0		Backup reporting after	~	3	at	in tempts	
Firmware	Encryption Key	•••••		DNS2		1.1.1.1			
	Backup channel			Backup channel 2					Ĩ
	Communication type	Disabled	-	Phone number					
	Domain or IP	0.0.00		PROTEGUS Cloud					
Remember password  Default settings	Port Phone number	0		Enable connection Parallel reporting					
Restore	Encryption Key	•••••		PROTEGUS Cloud access Code		•••••			

### 5.5 "IP Reporting" window



#### Settings group "Primary channel"

- **Communication type** choose the type of communication (IP, SMS) with the CMS (Central Monitoring Station) receiver.
- Domain or IP enter the receiver's domain or IP address.
- **Port** enter the receiver's network port number.
- **Phone number** phone number of CMS receiver capable of receiving SMS messages (e.g.: 370xxxxxxx), when selected **Communication type** is SMS.
- Encryption Key 6-digit message encryption key that must match the encryption key of the CMS receiver.

#### Settings group "Backup channel"

The settings are identical to those of the main communication channel.

#### Settings group "Settings"

- **Return to primary after** time period after which the controller will attempt to regain connection with the primary channel.
- **IP Ping period** enable sending of PING signal and set the length of its period.
- **SMS Ping period** enable sending of PING signal and set the length of its period.
- **Backup reporting after** specify amount of attempts to connect with the main channel, after which the controller will automatically connect to the backup connection channel.
- **DNS1 and DNS2** IP addresses of DNS servers.

#### Settings group "Backup channel 2"

• Phone number - phone number of CMS receiver capable of receiving SMS messages (e.g.: 370xxxxxx). The backup SMS channel is used when messages fail to send with both primary and backup channels. It is extremely useful because it functions even when IP connectivity is disrupted in the mobile operator's network. This channel works only when GPRS mode is set both for the main channel and backup channel. SMS messages will be sent to the response center's SMS receiver: 1) as soon as the controller is enabled for the first time; 2) after loss of TCP/IP or UDP/IP connection in the main and backup channels.

#### Settings group "PROTEGUS cloud"

- Enable connection enable *GATOR* service, the controller will be able to exchange data with the *GATOR* app and also remote configuration with *TrikdisConfig* will be possible.
- **Parallel reporting** the messages are sent simultaneously to the CMS, *GATOR* app and to users. When not enabled, messages to *GATOR* app and users will be sent only after being sent to CMS.
- Protegus Cloud Code 6-digit code for connecting with Protegus (default code 123456).



### 5.6 "User list" window

#### "Administrators" tab

rikdisConfig 1.66.20 GV17_1210	)											-		×
🔅 Program 🔗 Action	🕮 About													
	Read [F4] Writ	e [F5]	Open	[F8]	Sav	e [F9]				Dis	connect			
System Options	Administrators Us	ers Scheduler Black li	ist											
IN/OUT			Control			SME or	tification							
Modules	ID Name	Tel number	OUT3	OUT4	OUT5	IN1	IN2	OUT3	OUT4	OUT5	Test	ACK	FWD	-
IP Reporting	1 Master	+37060123456										-	-	
User list	2													
Events Log	3													-
Firmware	5													-
	6													
	7													
	Answer	SMS text												
	Command done	Command done												
	Wrong password	Wrong password												
Remember password	Wrong data	Wrong data												
Default settings	Wrong command	Wrong command												

- Name/E-mail specify administrator's name or e-mail address.
- Tel number specify administrator's phone number (e.g.: +370xxxxxxx).
- **Control** specify the outputs that the administrator will control.
- **SMS notification** specify events (IN1, IN2, OUT3, OUT4, OUT5) that the administrator will receive SMS notifications about.
- Test administrator will receive test messages.
- ACK administrator will get answer SMS messages when they control and configure the controller with SMS messages.
- FWD SMS message forwarding from unknown numbers.

#### "Users" tab

📫 TrikdisConfig 1.66.20 GV17_1210	)													_		ı ×
🏠 Program 🥜 Action	D AL	bout														
	Rea	ad [F4] Write [F5]		0	)per	n [F8] Sav	/e [F9]				Di	con	nect			
System Options	Ad	dministrators Users Scheduler Blac	ck lis	st												
IN/OUT		0				_									_	
Modules		<u>~</u>		1		Register R	FID		Clear users		Counte	er	Outp	outs		
IP Reporting	ID	Name / E-mail Tel number	En	Schee	Valio	d from		Vali	d until		Enn	c	3	4	5	
	10	Not authorized	~	n/a		16-03-01 15	00:00		16-03-01 15 00	:00	0	0			✓	
User list	11	Peter@trikdis.lt	~	n/a	~	20-02-10 15	08:00	~	20-02-11 15 14	:00	✓ 15	0			<	
Events Log	12	John +37061234567		n/a		20-02-10 15	00:00		20-02-11 15 00	:00	0	0		~		
Firmware	13			n/a		20-02-10 15	00:00		20-02-11 15 00	:00	0	0				

- Name/E-mail specify user's name or e-mail address.
- **Tel number** specify user's phone number (e.g.: +370xxxxxxx) or the ID number of the RFID pendant (card).
- En if boxed is ticked, user is allowed to control outputs OUT.
- Sched. assign a schedule (specify a schedule number) for when the user can control outputs OUT.
- Valid from specify date and time from when the user can control the controller.
- Valid until specify date and time until when the user can control the controller.



- Counter:
  - En enable counter.
  - **n** specify number of times that user can control the controller during the chosen time.
  - **e** current number of control times.
- **Outputs** specify output number that the user can control.

**Note:** If box **En.** is unticked for user **No.10** with the name **Not authorized,** users not on the users list will be banned from controlling the controller with phone call.

### 5.6.1 RFID pendant (card) registration

 Connect the RFID reader to the controller (see p.2.6 " Schematic for connecting for RFID reader (Wiegand 26/34)"). Turn on the power to the controller. Connect the USB Mini-B cable to the controller. Specify how many RFID readers are connected in the *TrikdisConfig* window "IN / OUT".

FrikdisConfig 1.66.20 GV17_12	10										-	
🔅 Program 🔗 Action	DAbout	1										
	Read [F	4] W	rite [F5]	Open [F8]	Sav	e [F9]				Disconne	ct	
System Options	IN/OU	T Schedu	er									
IN/OUT		Jeneda										
Modules	Input/C	Output setti	ngs									
IP Reporting	Termin	a Function	SMS event text	SMS restore text	Туре	Inactive, r	nir Delay	CMS	No res	t. Pulse Time, s	Sched	Assign IN
User list	1 IN	Input	IN1 event	IN1 restore	NO	0	400			0	-	N/A
	2 IN	Disabled	IN2 event	IN2 restore	N/A	0	400			0	-	N/A
Events Log	3 1/0	Disabled	1/0 3 ON	I/O 3 OFF	N/A	0	400			0		N/A
Firmware	4 1/0	Disabled	1/0 4 ON	I/O 4 OFF	N/A	0	400			0	-	N/A
	5 OUT	Output	Relay ON	Relay OFF	Pulse	0	400		-	3		1 IN
	Wiega	nd reader m	ode	Disabled	*	Entry/Exit	event wit	h output				
				Disabled								
				Dual Reader								
				Single Reader								

### Click Register RFID in the "User list" window.

📫 TrikdisConfig 1.66.20 GV17_121	0						1_	-		×
🔅 Program 🔗 Action	D Ab	oout								
	Rea	d [F4] Write [F5]	Ope	en [F8] Save [F9]		Discor	nnect	1		
System Options	Ad	ministrators Users Scheduler E	Black list							
IN/OUT		0							1	
Modules		<u>~</u>		Register RFID	Clear users	Counter	Outpu	ts		
ID Penerting	ID	Name / E-mail Tel number	En ScherVa	id from	Valid until	Ennc	3 4	5	Code	
IF Reporting	10	Not authorized	✓ n/a	16-03-01 15 00:00	16-03-01 15 00:00					
User list	11		n/a	20-02-10 15 00:00	20-02-11 15 00:00	0 0				
Events Log	12		n/a	20-02-10 15 00:00	20-02-11 15 00:00	0 0				-
Firmware	13		n/a	20-02-10 15 00:00	20-02-11 15 00:00	0 0				



### **GSM gate controller GATOR**

The RFID pendants (cards) registration window will open.

Attach the RFID pendant (card) to the RFID reader. A new

window will open when the reader scans the pendant (card). In it, Enter user name and select the User can

Repeat the steps above to add more RFID pendant (cards).

When the registration of all RFID pendant (cards) is

Press the button Write [F5] to save the RFID pendant list to

control PGM Output 5. Press the ADD button.

completed, press the STOP registration button

the controller.



 RFID pendants (cards) can be registered in *TrikdisConfig* by entering their ID numbers in the **Tel Number** field. Give the user a Name, check field the **En.** and a managed **Outputs** field. Press the **Write [F5]** button to save the list of RFID pendants (cards) to the controller.



#### The ID number on the RFID card.

TrikdisConfig 1.66.20 GV17_1210	)											14	-		×
🔅 Program 🔗 Action	💷 Ab	out													
	Rea	d [F4] Write [F	5]			Oper	n [F8] Sav	/e [F9]		Di	sconn	ect	1		
System Options	Ad	ministrators Users	Scheduler Bla	ick lis	st										
IN/OUT			5					510		-				1	
Modules				-			Kegister K	FID	Clear users	Counte	er	Outpu	.ts		1
IP Reporting	10	Name / E-mail	lei number	En	Scne	Valid	d from	00.00	Valid until		c lo l			Code	
User list	10	Not authorized		•	n/a		10-03-01 15	00:00	10-03-01 15 00:00	Чv	۲.				
Events Log	11	Peter	10805685	~	n/a		20-02-10 15	00:00	20-02-11 15 00:00	0	0		-		
Events Log	12				n/a		20-02-10 15	00:00	20-02-11 15 00:00	0	0				
Firmware	13				n/a		20-02-10 15	00:00	20-02-11 15 00:00	0	0				



### **GSM gate controller GATOR**

**3.** RFID pendant (card) registration with *GATOR* application.

In the *GATOR* application, select **Add New User**. Enter e-mail address, user name, RFID pendant (card) ID number, user 4-character code (when using an RFID keypad reader). Press **NEXT**.



Mark the controlled **Output**. Press the **Done** button. New user with RFID pendant (card) added to user list.



### "Scheduler" tab

FrikdisConfig 1.66.20 GV17_1210																				-	×
🔅 Program 🎤 Action 🛛	🛄 Abo	ut																			
	Read	[F4]	Write	[F5]				Op	en (F	8]	Save [F	9]						Disco	nnect		
System Options	Adm	inistra	tors Users	Sch	edule	Bla	ck lis	t													
IN/OUT																			v		
Modules			Start time				_			_	Stop time							_			
IP Reporting	ID	Enab	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
User list	1	~	07:00		~	~					17:00		~	~							
Events Lea	2		00:00								00:00										
Events Log	3		00:00								00:00										
Firmware	4		00:00								00:00										
	5		00:00								00:00										
	6		00:00								00:00										
	7		00:00								00:00										
	8		00:00								00:00										
	9		00:00								00:00										
Remember password	10		00:00								00:00										

- Enable enable time schedule when the user will be able to control the controller's outputs.
- Start time specify time and days of the week from when the user can control controller's outputs.
- **Stop time** specify time and days of the week until when the user can control controller's outputs.

### "Black list" tab

frikdisConfig 1.66.20 GV17_12	10	-	×
🔅 Program 🎤 Action	D About		
	Read [F4]         Write [F5]         Open [F8]         Save [F9]	Disconnect	
System Options	Administrators Users Scheduler Black list		
IN/OUT			
Modules	Email/Phone no		
IP Reporting	peter@trikdis.lt		
User list	+37063456987		
Events Log			
Firmware			

The **Black list** contains e-mail addresses, phone numbers, RFID pendant (card) ID numbers of users who are banned from controlling the controller.

There is an easy way to add new items to the black list straight from the events log. Right-click on a telephone number, e-mail address, RFID pendant (card) ID number and choose "Add to black list".

### 5.7 "Events Log" window

frikdisConfig 1.66.20 GV17_12	10				-		×
🏠 Program 🔗 Action	D About						
	Read [F4]	Write [F5]	Open	[F8] Save [F9]	Disconnect		
System Options	Read Log	Clear Log					
IN/OUT							
Modules	Event No.	Name / E-mail	Tel number	Time	Event definition		
incluies	273	System		2020-02-07 14:35:13	User list updated	-	
IP Reporting	272	System		2020-02-07 14:35:13	System start		
User list	271	System		2020-02-07 14:35:13	Configuration changed	=	
Events Log	270	Pulse timeout		2020-02-07 14:27:13	Output OFF. OUT 5		
	269	igoris@trikdis.lt	0010805685	2020-02-07 14:27:03	Output ON. OUT 5		
Firmware	268	igoris@trikdis.lt	0010805685	2020-02-07 14:27:03	The user has left the premises		

Click the button **Read**. The **Events Log** will be read from the controller's memory. The **Events log** provides information about the controller's actions and its internal events.



### 5.8 Restore default settings

To restore the default settings of the controller you need to click the **Restore** button in the **TrikdisConfig** program window.

Default settings Restore							
IMEI/Unique ID: 866191036964542							
Status: reading done	Device: GV17_1210	SN: 002484	BL: 1.02	FW:1.08	HW:	State	USB

### 5.9 Settings for gate state indication

**GATOR** app and Widget can show the current state of the gates (closed or open). For this to work, the controller's input IN1 must be connected to the automatic gate's state output as shown in chapter 2.5 "Schematic for connecting an automatic gate opener to the controller".

In the *TrikdisConfig* window "IN/OUT", assign the connected input to the controller output that will control the gates:

TrikdisConfig 1.66.20 GV17_12	210									-		×
🔅 Program 🎤 Action	🕮 About											
	Read [F4] W	/rite [F5]	Open [F8]	Open [F8] Save [F9]					Disconnect			
System Options IN/OUT Modules	IN/OUT Schedu	ler ngs										
IP Reporting	Termina Function	SMS event text	SMS restore text	Туре	Inactive, m	nir Delay	CMS	No rest	. Pulse Time, s	Sched	Assign IN	
Llear list	1 IN Input	IN1 event	IN1 restore	NO	0	400			0	-	N/A	
User list	2 IN Disabled	IN2 event	IN2 restore	N/A	0	400			0		N/A	
Events Log	3 I/O Disabled	1/0 3 ON	I/O 3 OFF	N/A	0	400			3		N/A	
Firmware	4 I/O Disabled	1/0 4 ON	I/O 4 OFF	N/A	0	400			3		N/A	
	5 OUT Output	Relay ON	Relay OFF	Pulse	0	400		~	3		1 IN	
	Disabled	•	Entry/Exit	event with	output							

If you want to receive SMS messages about the gates opening/closing, enter SMS texts for input 1IN event/restore.

TrikdisConfig 1.66.20 GV17_12	10									-	×
🔅 Program 🔗 Action	🛄 Ab	out									
	Read [F4] Write [F5]			Oper	[F8]	Save	e [F9]	1	Disconnect		
System Options	Ad	ministrators	Users Scheduler Black	ist							
IN/OUT				Control	SMS no	tification					
Modules	ID	Name	Tel number	OUT5	IN1	OUT5	Test	ACK	FWD		
IP Reporting	1	Master	+37060123456	-	-			-			
User list	2										
Events Log	3										
Firmware	4										

In the "User list" window, tick the IN1 box if you want the user to receive SMS messages about the state of the gate.

# 6 Setting parameters remotely

**IMPORTANT:** Remote configuration will only work when:



- Protegus service is enabed. Enabling the service is described in chapter 5.5 ""IP reporting" window";
- 2. Power is on ("POWER" LED is blinking green);
- 3. Connected to network ("NETWORK" LED is green solid and yellow blinking).
- 1. Download the program *TrikdisConfig* from <u>www.trikdis.com.</u>
- 2. Make sure that the controller is connected to the internet and connection to *Protegus* is enabled.
- 3. Launch the configuration program *TrikdisConfig* and in the field **Unique ID** of the **Remote access** section enter the **IMEI/Unique ID** number of your controller (the IMEI number is given on the stickers that can be found on the lower part of the device's case and on the packaging).

Remote access					
	Unique ID	System Name	-		
Choose module			(i)	Configure	Control

- 4. In the field **System Name** you can give any name to this controller. Click **Configure**.
- 5. The controller configuration window will open. Click the button **Read [F4]** for the program to read the parameters currently set for the controller. If a window for entering the *Administrator code* opens, enter the six-symbol *administrator code*. To make the program remember the code, tick the box next to **Remember password** and click the button **Write [F5]**.
- 6. Set the desired settings for the controller and afterwards click **Write [F5]**. To disconnect from the controller click **Disconnect** and exit the **TrikdisConfig** program.

# 7 Testing of GSM gate controller

When configuration and installation are finished, test the system:

- 1. Check if the power is on;
- 2. Check network connectivity (NETWORK indicator must be green solid and blink yellow);
- 3. To test the controller's inputs, trigger them and make sure that the recipients get correct messages;
- 4. To test the controller's outputs, turn them on remotely and make sure that the recipients get correct messages and the outputs are activated correctly.

# 8 Updating firmware manually

Note:When the controller is connected to *TrikdisConfig*, the program will offer to update the<br/>device's firmware if updates are available. Updates require an internet connection.If antivirus software is installed in your computer, it might block the automatic firmware<br/>update function. In this case you will have to reconfigure your antivirus software.

The controller's firmware can also be updated and changed manually. All prior controller parameters remain after update. When writing manually, the firmware can be changed to an older or a newer version. Follow these steps:

- 1. Launch *TrikdisConfig*.
- 2. Connect the controller to a computer using a USB Mini-B cable or connect to the controller remotely. If a newer version of firmware is available, the program will offer to install it.
- 3. Choose the menu branch **Firmware**.



4. Click the **Open firmware** button and choose the required firmware file. If you do not have the file, the newest version of the firmware file can be downloaded <u>by registered users</u> from <u>www.trikdis.com</u>, under the download section of the controller.

TrikdisConfig 1.66.20 GV17_12	10		×
🔅 Program 🥜 Action	🕮 About		
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect	
System Options	Firmware		
IN/OUT			
Modules			
IP Reporting	Open firmware file		
User list		Open firmware	
Events Log			
Firmware		Start update [F12	
	0%		
Remember password			

- 5. Click the button Start update [F12].
- 6. Wait for the update to finish.