

GSM gate controller GV17 Installation manual

(FW:2.03)

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SA	FETY	PRECAUTIONS	3
1	DESC	RIPTION	4
	1.1	SPECIFICATIONS	4
	1.2	CONTROLLER ELEMENTS	5
	1.3	PURPOSE OF TERMINALS	5
	1.4	LED INDICATION OF OPERATION	6
	1.5	GSM GATE CONTROLLER GV17 STANDARD PACKING LIST	6
2	WIRI	NG SCHEMATICS FOR THE GSM GATE CONTROLLER GV17	7
	2.1	Fastening	7
	2.2	SCHEMATIC FOR CONNECTING THE POWER SUPPLY	7
	2.3	SCHEMATICS FOR CONNECTING INPUTS	
	2.4	SCHEMATIC FOR CONNECTING THE RELAY	8
	2.5	SCHEMATIC FOR CONNECTING AN AUTOMATIC GATE OPENER TO THE GV17	8
	2.6	SCHEMATIC FOR CONNECTING THE W485 WIFI MODULE	8
	2.7	SCHEMATIC FOR CONNECTING THE E485 "ETHERNET" MODULE	9
3	QUIC	K SET UP OF THE CONTROLLER	9
4	REMO	DTE CONTROL	9
	4.1	CONTROL WITH PHONE CALL	9
	4.2	CONTROL WITH PHONE KEYBOARD.	9
	4.3	CONTROL USING PROTEGUS CLOUD	10
	4.4	ADDING A WIDGET ON YOUR PHONE	12
	4.5	ADDING USERS ON YOUR PHONE	15
	4.6	CONTROL WITH SMS MESSAGES	17
	4.7	CONFIGURATION WITH SMS MESSAGES	17
5	SETTI	NG PARAMETERS USING TRIKDISCONFIG SOFTWARE	19
	5.1	TRIKDISCONFIG STATUS BAR	
	5.2	"System Options" window	20
	5.3	"IN/OUT" WINDOW	21
	5.4	"Modules" window	23
	5.5	"IP REPORTING" WINDOW	25
	5.6	"User list" window	26
	5.7	"Events Log" window	28
	5.8	Restore default settings	28
	5.9	SETTINGS FOR GATE STATE INDICATION	29
6	SETTI	NG PARAMETERS REMOTELY	30
7	TESTI	NG OF GSM GATE CONTROLLER GV17	30
8	UPDA	ATING FIRMWARE MANUALLY	30



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 GV17 can remotely control automatic gates and other equipment.

Users can control **GV17** with **Protegus** 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 **GV17**. 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 **GV17** 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 Protegus.
- With SMS messages.
- With phone call.

Messages for users

• Sends messages about events to the *Protegus* 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 *Protegus* 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 *Protegus* 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 kΩ
Universal inputs/outputs	2, can be set either as input IN with type: NC, NO, EOL=10 k Ω , or output OUT (open collector (OC) 50 mA)





GSM gate controller GV17

Parameter	Description
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

Terminal	Description
AC/+DC	Power terminal (9-32 V DC positive; 12-24 V AC)
AC/-DC	Power terminal (9-32 V DC negative; 12-24 V AC)
1 IN	1 st input, of selectable type NO, NC, EOL (factory setting: NO)
2 IN	2 nd input, of selectable type NO, NC, EOL (factory setting: NO)
СОМ	Common terminal
3 I/O	Input/output (factory setting: type OC output)
4 I/O	Input/output (factory setting: type OC output)
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 RS485 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 Protegus 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 GV17 standard packing list

-	GSM gate controller GV17	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 GV17

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 GV17 controller according to the schematic shown below.



2.3 Schematics for connecting inputs

The *GV17* 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:



Relay

NO



2.4 Schematic for connecting the relay

Above is the schematic for connecting the relay when the **GV17** 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 GV17

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 **GV17**'s 1IN input.



GV17

x I/O >

0

0

AC/+DC >

The state of the **GV17**'s 1IN input gives precise information about the state of the gates (when the gates are closed and when they are open). Configuring the **GV17** with the gate state indication is described in chapter 5.9 "Settings for gate state indication".

2.6 Schematic for connecting the W485 WiFi module

GV17 firmware version from 1.06.

The **W485** module sends messages to the CMS (Central Monitoring Station) and to **Protegus** using a WiFi internet router. When WiFi connectivity is available, the **GV17** sends event messages via the **W485** module. When WiFi connectivity is disrupted, the **GV17** sends messages via GPRS. When WiFi connectivity is re-established, the **GV17** returns to sending messages via **W485**.

Configuration of the **W485** WiFi module to work with the **GV17** is described in chapter 5.4. ""Modules" window".

You do not need a SIM card, when using the W485 with the GV17.



 \bigcirc

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0

< + DC

< - DC

< A 485

< B 485

< + DC

< - DC

< A 485

< B 485



2.7 Schematic for connecting the E485 "Ethernet" module

GV17 firmware version from 1.06.

The *E485* sends messages to the CMS (Central Monitoring Station) and to *Protegus* using a wired internet connection. Using the *E485* with *GV17*, CMS and *Protegus* messages are sent over wired Internet and mobile Internet is not used. If a wired internet connectivity is disrupted, the *GV17* sends messages via the mobile Internet. When the wired Internet connectivity is re-established, *GV17* starts sending messages via *E485*.

Configuration of the *E485* module to work with the *GV17* is described in chapter 5.4. ""Modules" window".

You do not need a SIM card, when using the E485 with the GV17.

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.

Power supply

10-28 V DC, 0,5 A

RS485

connection

up to 100m

- 1. A nano-SIM card must be inserted into the *GV17*. Turn off PIN code requests for the card before inserting it into the controller.
- 2. Connect a power source to the GV17 (see 2 "Wiring schematics for the GSM gate controller GV17").
- 3. Turn on the power for the controller. This should trigger the following *GV17* 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** +**370**xxxxxx**#**Peter). After receiving such command, **GV17** 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

GV17 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 control commands

DTMF code	Function	Description
OUTPUT*STATE#	Output control	Output control command (turn on/turn off; turn on/turn off for pulse time).
		OUTPUT – number of the controlled output.
		STATE – control command:
		0 – turn off output;
		1 – turn on output;
		2 – turn off output for pulse time;
		3 – 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): 5*1#
		E.g. (turn on input 4 for pulse time): 4*3#
#	Command end symbol	If you made a mistake writing a command, dial # and enter the control command again.

4.3 Control using Protegus Cloud

With *Protegus* users will be able to control *GV17* remotely. They will also be able to see the system state and receive all system event messages.

1. Download and launch the Protegus app or use the browser version of Protegus at www.protegus.eu/login.



- 2. Log in with your user name and password or register and create a new account.
- 3. Choose Add new system and enter the GV17 Unique ID (IMEI) number found on the product or on the packaging sticker.

Add new system			
	Unique ID Next	Enter the IMEI code. You can find it her - on the package; - on the back of the controller housing; - TrikdisConfig as a Unique ID.	

- **IMPORTANT:** When adding the *GV17* to *Protegus*:
 - 1. The *Protegus service* must be turned on. Turning on the service is described in chapter 5.5 Window "IP reporting";
 - 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 *GV17* to *Protegus* choose Control in the newly opened window.



Protegus melligent security & control	GV17 online	~			Q Peter	Ë	ŝ	\bigcirc	G
දිා Settings									
			GV17 - Events						
Events				There are no events					
Control			Refresh time: 8/24/2018, 3:28:48 PM						

5. In the opened window are the PGM control buttons. In the PGM control button settings choose either **Level** or **Pulse** output operation mode.

protegus intelligent security & control	GV17 ONLINE	~				2) Peter	Ë	ţ	\bigcirc	
දිාි Settings		lcon (SETTIN	GS	1						
Events		Contr	- Providence - Contract - Contrac	P			🖋 Settin	igs			
ි Control		PGM	5 evel				+ Dashi				
		Pulse	ulse time				PGN	15			
			Cancel		Save						

6. After clicking on a PGM button, the *GV17* output is turned on. (Example: PGM3 – output turned off; PGM4 – output turned on, the PGM operation mode *Level* is set; PGM5 – output turned on, the PGM operation mode *Pulse* is set).



protegus intelligent security & control	GV17 online			Q Peter	Ë	<u>نې</u>	\bigcirc	
දිලිදි Settings								
Events		Control						
Control		r P						
		PGM 3	PGM 4	PGN	15			
	Re	fresh time: 8/24/2018, 3:29:16 PM						

4.4 Adding a Widget on your phone

The gate control Widget can be placed on your phone's home screen. The **GV17** must be registered to **Protegus**. Log in to **Protegus** on your phone. Close the **Protegus** window.

Touch the screen with your finger and hold. A settings bar will appear. 1. Press **Widgets**.





Find **Protegus** in the settings bar.

2. Select **Protegus**.

GSM gate controller GV17





3. Select *Protegus* (Switch).



- 4. Choose GV17 PGM Output 5.
- 5. Press ADD WIDGET.

GSM gate controller GV17







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

Return to the home screen. Press the icon.



GSM gate controller GV17

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







Launch Protegus application on your phone. Log in with your username and password.

7. When the *GV17* is connected to the automatic gate with gate state indication, the icon will show the state of the open/closed gates.

1. Press Settings.





3. Press Add user.

- 4. Access is allowed must be checked.
- 5. Enter the user's e-mail address.
- 6. Enter the user's phone number.
- 7. Check the **PGM output** 5 to be controlled by the user.
- 8. Click OK.

GSM gate controller GV17

		GV17	
	Level	Outputs	
	att	1	
	Туре	Sensors	
(Communicator	0	
١	System informat	ion	2
Ω	Users		>
Û	Notification with sound	ON	D
\mathcal{O}	Notifications		>
	G\	/17	^
Ω	Add user	3	+
	Name/e-mail Phone		8
Ω	Not authorized		
Ω	igoris@trikdis.lt +3706 (/
	ADD NEW		
	Access is allo		
	Name/e-mail	Wed	
	te: Entering e-mail will er	hable Protegus 5	
acc	jonas@trikdis.lt		
	Phone		
	+37060123456		
		list 6	
	Can edit user		
	All 7 Outp	8	
	PGM Output 5	Ok	
	ouncer	OIL	



GSM gate controller GV17

- 9. A new user appears in the user list.
- 10. Click **Save** to update the list of users on the controller.
- 11. Click the Return to Main Menu button.



4.6 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*.

SMS control command list

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

4.7 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 +PHONENO#NAME

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

www.trikdis.com



Once the first number is added to the *GV17*'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 Nox=+PHONENO#NAME

xxxxxx Nox	6-symbol administrator password. x – administrator's number in the list. (If you write 1 , you will transfer your administrator rights to another user.)
PHONENO	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.: INFO 123456
ASKI		Input status inquiry. E.g.: ASKI 123456
ASKO		Output status inquiry. E.g.: ASKO 123456
SETA	NoX=phonenr#name	Add administrator to list. Adds the phone number and name to the specified line. The number must be separated from the name with a hash (#). The number must start with "+" and the international code.
		E.g.: SETA 123456 No3=+37061234567#John
	NoX=DEL	Deletes phone number and name from the specified line.
		E.g.: SETA 123456 No2=DEL
SETU	phonenr#name	Add new user. Adds the phone number and name to the list. The 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	phoneNo	Delete user with specified phone number.
		E.g.: DELU 123456 +37061234567
	name	Delete user with specified name. E.g.: DELU 123456 Peter
SETB	Email/phoneNo	Add entry into black-list (e-mail; phone No.).
		Pvz.: SETB 123456 VardaS@mail.lt
		Pvz.: 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.: DELB 123456 +37060123456
RESET		Restart the controller. E.g.: RESET 123456
PSW	New password	Change password. E.g.: PSW 123456 654123
ΤΧΤΑ	Object name	Set object name. E.g.: TXTA 123456 House
ΤΧΤΕ	N1= <text></text>	Set SMS text about input or output activation. <i>N1N5</i> is the number of the contact on the terminal block.
	N5= <text></text>	E.g.: TXTE 123456 N1=Alarm in the living room



Command	Data	Description
TXTR	N1= <text></text>	Set SMS text about input or output recovery. <i>N1N5</i> 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 offd. E.g.: SETD 123456 ID1=30
RESD	IDx	Resets inactivity time for input "x", if the countdown has started. E.g.: RESD 123456 ID1
ΤΙΜΕ	YYYY/MM/DD,	Set date and time.
	HH:mm:ss	E.g.: TIME 123456 2018/01/03,12:23:00
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.: UUSD 123456 *245#
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 *GV17* 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 **GV17**'s lid as shown below:



- 3. Connect the *GV17* 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 *GV17* configuration window.
- 5. Click **Read [F4]** to see current *GV17* 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 *GV17* to the *TrikdisConfig* software, the software will show information about the connected device in the status bar:

IMEI/Unique ID: 866191036923480	
Status: Ready Device: O	GV17_1210 SN: 003132 BL: 1.01 FW:2.03 HW: State USB
Name	Description
IMEI/Unique ID	The device's IMEI number
State	Operational state
Device	Device type (must show GV17)
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 **GV17**. With **TrikdisConfig**, adjust the required settings according to the program window descriptions below.

5.2 "System Options" window

🖸 TrikdisConfig 1.66.29 GV17				- 🗆 X
🔅 Program 🖉 Action	🕮 About			
	Read [F4] Write [F5]	Open [F8] Sa	ave [F9]	Disconnect
System Options	General		SIM	
IN/OUT	Object ID	0001	SIM card pin	
Modules	Object name	GV17	APN	internet
IP Reporting	Time synchronization	GSM modem -		Internet
User list		GSM modem *	Login	
Events Log	SMS time synchronization		Password	
Firmware	Administrator Code	•••••		
	Text language	Baltic -		
	Hang-up after	0 s		
	Periodical Test		SMS ack texts	
	Test Enable		Answer	SMS text
Remember password	Test period	1 day(s) 0 h	Command done	Command done
	Start test at		Wrong password	Wrong password
Default settings		✓ 13:35	Wrong data	Wrong data
Restore	Test SMS text	Periodical test	Wrong command Greeting text	Wrong command You have been added to gate controller
IMEI/Unique ID: 866191036923480	To Protegus Cloud	✓	Force greeting mess	
Status: Ready	Device: GV17_1210 SN: 003132	BL: 1.01 FW	/:2.03	HW: State USB



Settings group "General"

- **Object ID** enter account number (4 symbol hexadecimal number, 0-9, A-F. **Do not use FFFE, FFFF Object ID.**), provided by the central monitoring station.
- **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.
- **Text 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 Protegus.

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.

Settings group "SMS ack texts"

The text of SMS messages that the user will receive after sending SMS commands.

• Force greeting message - check the box to send an SMS message to the new user, who was added by SMS or *Protegus* app, to *GV17*.

5.3 "IN/OUT" window

"IN/OUT" tab

TrikdisConfig 1.66.29 GV17														
🔅 Program 🛛 🎤 Action	📖 About													
	Read [F4	4] Wri	te [F5]	Ope	n [F8]	Save	e [F9]				Disconn	ect		
System Options	IN/OU	Schedule	Holidays											
IN/OUT	10,00	Scheduler	Holidays											
Modules	Input/0	utput setting	5											
					1	1			1		1.			-
IP Reporting	Termina	a Function	SMS event text	SMS restore text	Туре	Inactive, min	Delay	CMS	No rest	Pulse Time, s	Sched	Assign	I CID	Confirm
		Function	SMS event text IN1 event		Type NO	Inactive, mir 0	Delay 400	CMS	No rest	Pulse Time, s 0	1	Assign N/A	1	Confirm N/A
User list	1 IN	1	L	IN1 restore					No rest	Pulse Time, s 0 0	-	1	130	1
User list	1 IN 2 IN	Input	IN1 event	IN1 restore IN2 restore	NO		400		No rest	Pulse Time, s 0 0 0	*	N/A	130	N/A N/A
IP Reporting User list Events Log Firmware	1 IN 2 IN 3 I/O	Input Disabled	IN1 event IN2 event	IN1 restore IN2 restore I/O 3 OFF	NO N/A		400 400		No rest	Pulse Time, s 0 0 0 0 0	•	N/A N/A	130 130 130	N/A N/A

- **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.
- Delay input (zone) reaction time, ms.
- CMS if box is ticked, the message will be sent to CMS (Central Monitoring Station) and to Protegus.
- 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.
- **CID** event Contact ID code.
- **Confirm** specify the number of the input, when the input is triggered, control of the output (OUT) will be enabled.

"Scheduler" tab

Outputs can be controlled automatically according to a set schedule.

📫 TrikdisConfig 1.66.29 GV17																		-	-		×
🔅 Program 🖉 Action		About																			
System Options	_	ead [F4] N/OUT	Wr Schedule	ite [F5] er Holidays)		Open	[F8]		Save	[F9]				1	Dise	conne	ct			
Modules						Start time								End time							
IP Reporting	ID	Enable	Output mo	Holiday Mod	Hol	Time	Mon		Wed	Thu	Fri	Sat	Sun	Time			Wed	Thu	Fri	Sat	Sun
User list	1	~	Level	Disabled		08:00	-	~	~	~	-			17:00	-	~	~	-	<		
	2		Level	Disabled		00:00								00:00							
Events Log	3		Level	Disabled		00:00								00:00							
Firmware	4		Level	Disabled		00:00								00:00							

- Enable check the box to enable the schedule.
- **Output mode** specify the mode of operation of the PGM output: **Level** the output will be activated for the specified time period; **Pulse** the output will be activated at the start and end of the schedule for the set pulse duration.
- Holiday mode specify the mode of how the time schedule should work when the holidays begin (Disabled / Ignore on holidays / Additional on holidays / Only holidays).
- Holidays check the box to use a holiday schedule when the schedule is the same as a holiday.
- **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.

If the PGM output mode is set to **Level** and only **End time** is specified in the **Scheduler** table, then the PGM output will be disabled at the specified time, if it was enabled. An output control schedule must be assigned to an PGM output.

"Holidays" tab

Enter the calendar holidays during which it will be possible to set the additional activation of the PGM output provided in the Scheduler table.

📫 TrikdisConfig 1.66.29 GV17		-	\times
🔅 Program 🔗 Action	D About		
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect	
System Options	IN/OUT Scheduler Holidays		
IN/OUT			
Modules	ID En Start date Stop date		
IP Reporting	1 01/04/2020 15 01/04/2020 15 2 01/04/2020 15 01/04/2020 15 Start time on holidays 00:00		
User list	3 01/04/2020 15 01/04/2020 15		
Events Log	4 01/04/2020 15 01/04/2020 15 Stop time on holidays 23:55		
Firmware	5 🔲 01/04/2020 15 01/04/2020 15		

- En. check the box to specify a specific holiday interval.
- Start date specify the start date of the holidays.



- Stop date specify the end date of the holidays.
- Start time on holidays specify the start time of the holidays.
- Stop time on holidays specify the end time of the holidays.

5.4 "Modules" window

"Modules" tab

If there is wireless internet (WiFi) or wired internet at the *GV17* installation site, the *W485* WiFi module or the *E485* "Ethernet" module can be connected to the *GV17* controller. The module will be able to transfer data to *Protegus* and CMS (central monitoring station) via the Internet. Using a module (*W485* or *E485*) with *GV17*: 1) does not use mobile internet, it is also possible to disable *GV17* GPRS data transmission; 2) You can use the *GV17* without a SIM card (controlled by the *Protegus* apps).

TrikdisConfig	1.66.29 GV17							
🗭 Program	Action 🖉	M About						
		Read [F4	4] Write [F5]	Open [F8]	Save [F9]	Disconnect		
System Optio	ons	Module						
IN/OUT							_	
Modules		ID	Module	Serial No.	Name	Firmware version		
		1	Not available	Ŷ	Expander ID1			
IP Reporting		2	Not available		Expander ID2			
User list		3	W485 (W17u) module		Expander ID3		1	
Events Log		4	E485 communicator		Expander ID4		1	
Firmware		5	Not available		Expander ID5		1	
		6	Not available		Expander ID6		1	

- 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.

After selecting the connected module and entering its serial number, go to Modules \rightarrow Parameters.

"Parameters" tab

WiFi module W485 settings window

🕫 TrikdisConfig 1.66.29 GV17						-	×
🏠 Program 🖉 Action	D About						
System Options IN/OUT Modules	Read [F4] Write [F5] Modules Parameters Network parameters		Open [F8] Save	e [F9] Working mode	Disconnect		
IP Reporting User list Events Log Firmware	DHCP mode Static IP: Subnet mask: Default gateway:	0.0.0.0 255.255.255.0 192.168.1.254		Disable indication of th card Use dial and SMS whe is connected Disable the use of SIM	n the internet module	□ ✓	
	Wifi SSID name Wifi SSID password	TRIKDIS 56SdS65					

"Network parameters" settings 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 *GV17* 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 WiFi network, then the call and SMS messages are not used. If the field is unchecked and there is no WiFi network, then *GV17* can manage call and SMS messages. *GV17* 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 WiFi network is disconnected, *GV17* will store data in memory. After restoring the WiFi network, the *GV17* will send the saved data via the WiFi *W485* module.

"Ethernet" module E485 settings windows

TrikdisConfig 1.66.29 GV17						H	Х
🍄 Program 🛛 🎤 Action	🕮 About						
	Read [F4] Write [F5] 0;	ben [F8] Save [f	F9]	Disconnect		
System Options	Modules Parameters						
IN/OUT							
Modules	Network parameters			Working mode			
IP Reporting	DHCP mode			Disable indication of the al card	bsence of a SIM [
User list	Static IP:	0.0.0.0	_	Use dial and SMS when the	e internet module	~	
Events Log	Subnet mask:	255.255.255.0	-	is connected Disable the use of SIM care	مفعله ماليا مريد او		
Firmware	Default gateway:	192.168.1.254		Disable the use of Silvi card			

"Network parameters" 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 *GV17* 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 GV17 can manage call and SMS messages. GV17 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, *GV17* will store data in memory. When the Internet is restored, the *GV17* will send the saved data via the "Ethernet" *E485* module.



5.5 "IP Reporting" window

			_ 0	×
(contraction of the second seco	Save [F9] Settings Return to Primary after	Disconnect	min	
0.0.0.0	IP Ping period SMS Ping period Backup reporting after	 ✓ 60 ✓ 10 3 	s min attempts	
•••••	DNS1 DNS2	8.8.8.8 1.1.1.1		
	Phone number			
0	Enable connection Parallel reporting	Protegus	-	
	L D type TCP/IP - 0.0.0.0 0 type Disabled - 0.0.0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Image: setting settin	Image: Settings a type TCP/IP 0.0.00 IP Ping period 0 IP Ping period 0 IO Backup reporting after 3 DNS1 8.8.8.8 DNS2 1.1.1.1 Backup channel 2 Phone number 0 Image: Protegus 0 Protegus Parallel reporting Image: Protegus	Image: settings Settings a type TCP/IP Image: setting s

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.: 370xxxxxxx). 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 *GV17* 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 *Protegus* service, the *GV17* will be able to exchange data with the *Protegus* app and also remote configuration with *TrikdisConfig* will be possible.



- **Parallel reporting** the messages are sent simultaneously to the CMS, *Protegus* and to users. When not enabled, messages to *Protegus* 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

"Users" tab

👖 TrikdisConfig 1.66.29 GV17										-	×
🗘 Program 🛛 🎤 Action	D Ab	out									
	Read	d [F4] Write [F5]	Open [Fi	8] Save [F9]					Disconnec	t	
System Options	Use	ers Scheduler Black list									
IN/OUT		0	_	C1			1		1		
Modules	ID	E-mail address	Tei number	Clear users	En	GRE	Echo	Out	More Settings	1	
IP Reporting	10		lei number	Not authorized		1	n/a	1	l	1	
User list	1A	peter@trikdis.lt	+37060123456	Peter	V		n/a				
Events Log	2A	peterwritkaisit	+37000123430	relei	~	H	n/a		More Settings		
Firmware	3A				V		n/a	H	More Settings		
	4A				~		n/a	F	More Settings		
	5A				~		n/a		More Settings		
	6A			-	~		n/a		More Settings		
	7A				~		n/a		More Settings		
	11	alena@trikdis.lt	+37061234567	Alena	~		n/a	~	More Settings		

- ID user serial number. Numbers with the letter "A" (1A to 7A) are administrator numbers that can make settings on the controller, control outputs, and receive messages from the gate controller. Other user numbers (11 to 999) can control outputs.
- E-mail address specify administrator's name or e-mail address.
- **Tel number** specify administrator's phone number (e.g.: +370xxxxxxx).
- Name specify user's name.
- **En** check the box for the user to be activated.
- **GRE** check the box to send an SMS message to the GV17 user.
- Scheduler select the schedule number by which the user will be allowed to control the controller.
- **Output** mark the number of the output that will be controlled by the user.
- More settings by clicking on the More settings button, an additional user settings window will open.

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.

1A

1

~

IN1 OUT5

OUT5

~

Peter

peter@trikdis.lt

+37060123456



Administrator settings (numbers from 1A to 7A)

- ID administrator number.
- **Enabled** boxed is ticked, user is allowed to control outputs OUT.
- Name specify administrator's name.
- E-mail address specify administrator's e-mail address.
- **Phone number** enter the administrator phone number.
- ACK for SMS message administrator will get answer SMS messages when they control and configure the controller with SMS messages.
- Receive test SMS check the box and administrator will receive test messages.
- Forward unknown SMS SMS message forwarding from unknown numbers.
- SMS notification for specify events that the administrator will receive SMS notifications about.

📫 User settings

Enabled

E-mail address

Phone number

Keypad code

ACK for SMS message

SMS notification for

Can control outputs

Receive test SMS Forward unknown SMS

Name

ID

• Can control output - mark the output number that will be controlled by the administrator.

User settings (numbers from 11 to 999)

- ID user number.
- Enabled boxed is ticked, user is allowed to control outputs OUT.
- Name specify user's name.
- E-mail address specify user's e-mail address.
- **Phone number** enter the user phone number.
- Assign schedule 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.
- Enable counter check the box to enable the counter.
- Set counter specify number of times that user can control the controller during the chosen time.
- Current counter current number of control times.
- **Can control outputs** mark the number of the output that will be controlled by the user.

11					
User settings			-		×
ID		11			
Enabled Name		√ Alena			
E-mail address		alena@trikdis	s.lt		
Phone number		+3706123456	57		
Keypad code					
Assign schedule		n/a *			
Valid from		20/11/2020	15	00:00	
Valid until		21/11/2020	15	00:00	
Enable counter					
Set counter		0			
Current counter		0			
Can control outputs]			
	Save				



"Scheduler" tab

The user can control the Outputs according to the set schedule. Schedule must be assigned to user.

📫 TrikdisConfig 1.66.29 GV17																				-	×
🔅 Program 🖉 Action	00 A	bou	t																		
	Re	ad [F4]	Write [F5]				Op	oen [F	8]	Save [F9]						Disco	onnect	
System Options	Ū	sers	Sch	neduler Bla	ck list																
IN/OUT																				_	
Modules	_			Start time							_	Stop time									
IP Reporting	10	D	Enable	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	1		✓	08:00	-	-						12:00	-	~							
User list	2	2		00:00								00:00									
Events Log	3	3		00:00								00:00								1	
Firmware	4	1		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

🕫 TrikdisConfig 1.66.29 GV17		-	×
🔅 Program 🎤 Action	🕮 About		
System Options	Read [F4] Write [F5] Open [F8] Save [F9] Users Scheduler Black list	Disconnect	
Modules IP Reporting	Email/Phone no +37062345678		
User list Events Log Firmware			

The **Black list** contains e-mail addresses and phone numbers of users who are banned from controlling the **GV17**. There is an easy way to add new items to the black list straight from the events log. Right-click on a telephone number or e-mail address and choose "Add to black list".

5.7 "Events Log" window

TrikdisConfig 1.66.29 GV17					-	
🔅 Program 🥜 Action	About					
	Read [F4]	Write [F5]	Open [F8] Save [F9]	Disconnect	
System Options	Read Lo	g Clear Log				
IN/OUT						
Modules	Event No.	Name / E-mail	Tel number	Time	Event definition	
	147	System		2020-09-22 09:14:02	System start	-
IP Reporting	146	System		2020-09-22 09:13:15	System start	
User list	145	System		2020-09-22 09:12:05	System start	=
Events Log	144	System		2020-09-22 09:11:16	System start	
	143	Pulse timeout		2020-09-22 09:09:10	Output OFF. OUT 5	
Firmware						

Click the button **Read Log**. 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 *GV17* controller you need to click the **Restore** button in the *TrikdisConfig* program window.



5.9 Settings for gate state indication

Protegus app and Widget can show the current state of the gates (closed or open). For this to work, the **GV17**'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 GV17".

In the TrikdisConfig window "IN/OUT", assign the connected input to the **GV17** output that will control the gates:

🗭 Program 🛛 🎤 Action	De About													
	Read [F4	4] Wri	te [F5]	Ope	n [F8]	Save	[F9]				Disconn	lect		
System Options	IN/OU	Schedule	Holidays											
IN/OUT		Scheddie	Thomas yo											
Modules	Input/0	utput setting	ß											
IP Reporting	Termina	Function	SMS event text	SMS restore text	Туре	Inactive, mir	Delay	CMS	No rest	Pulse Time, s	Sched	Assign	CID	Confirm
		Function Input	SMS event text Open		Type NO		Delay 400	CMS	No rest	Pulse Time, s 0		Assign N/A	CID 130	
User list	1 IN		-	Close				CMS	No rest			1		N/A
	1 IN 2 IN	Input	Open	Close	NO	0	400		No rest.			N/A	130	N/A N/A
	1 IN 2 IN 3 I/O	Input Disabled	Open IN2 event	Close IN2 restore	NO N/A	0	400 400	CMS	No rest.			N/A N/A N/A	130 130	N/A N/A N/A

If you want to receive SMS messages about the gates opening/closing, enter SMS texts for input 1IN event/restore. In the "Users" window, click on the **More settings** button.

📫 TrikdisConfig 1.66.29 GV17			- 🗆 X
🔅 Program 🔗 Action	D About		
	Read [F4] Write [F5]	Open [F8] Save [F9]] Disconnect
System Options	Users Scheduler Black list		
IN/OUT		Clear users	Outr
Modules	ID E-mail address	Tel number Name	En GRE Scher5 More Settings
IP Reporting	10	Not authorized	n/a V More Settings
User list	1A peter@trikdis.lt	+37060123456 Peter	✓ n/a ✓ More Settings
Events Log Firmware	2A		✓ n/a More Settings
	3A		V n/a More Settings

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

🕫 User s	settings					-	×
ID					1A		
Ena	bled				~		
Nar	ne				Peter		
E-m	ail address				peter@trikdi	is.lt	
Pho	one number				+370601234	56	
Key	pad code						
AC	(for SMS message				√		
Rec	eive test SMS						
For	ward unknown SMS						
SM	S notification for			IN1	OUT5		
Can	control outputs			OUT5]		
		-	Save				



6 Setting parameters remotely

IMPORTANT: Remote configuration will only work when:

- 1. 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 GV17 controller is connected to the internet and connection to Protegus is enabled.
- Launch the configuration program *TrikdisConfig* and in the field Unique ID of the *Remote access* section enter the IMEI number of your *GV17* (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					
Choose module	Unique ID	System Name			
Choose module			Ú	Configure	Control

- 4. In the field System Name you can give any name to this GV17. 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 *GV17*. 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 *GV17* and afterwards click **Write [F5]**. To disconnect from the *GV17* click **Disconnect** and exit the *TrikdisConfig* program.

7 Testing of GSM gate controller GV17

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 GV17's inputs, trigger them and make sure that the recipients get correct messages;
- 4. To test the *GV17*'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 GV17 is connected to TrikdisConfig, the program will offer to update the 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 update function. In
this case you will have to reconfigure your antivirus software.

The *GV17*'s firmware can also be updated and changed manually. All prior *GV17* 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 *GV17* to a computer using a USB Mini-B cable or connect to the *GV17* 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 by registered users from www.trikdis.com, under the download section of the **GV17**.



📫 TrikdisConfig 1.66.29 GV17			×
🔅 Program 🔗 Action	E About		
	Read [F4] Write [F5] Open [F8] Save [F9] Disconn	ect	
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.