



GSM gate controller GV17

Installation manual

November 2018

Contents

SAFETY PRECAUTIONS	3
1 DESCRIPTION	4
1.1 SPECIFICATIONS.....	5
1.2 CONTROLLER ELEMENTS	5
1.3 PURPOSE OF TERMINALS	6
1.4 LED INDICATION OF OPERATION	6
1.5 GSM GATE CONTROLLER <i>GV17</i> STANDARD PACKING LIST	7
2 WIRING SCHEMATICS FOR THE GSM GATE CONTROLLER <i>GV17</i>.....	7
2.1 FASTENING.....	7
2.2 SCHEMATIC FOR CONNECTING THE POWER SUPPLY	8
2.3 SCHEMATICS FOR CONNECTING INPUTS.....	8
2.4 SCHEMATIC FOR CONNECTING THE RELAY	8
3 QUICK SET UP OF THE CONTROLLER.....	9
4 REMOTE CONTROL.....	9
4.1 CONTROL WITH PHONE CALL	9
4.2 CONTROL WITH PHONE KEYBOARD.....	9
4.3 CONTROL USING <i>PROTEGUS</i> CLOUD	10
4.4 CONTROL WITH SMS MESSAGES.....	12
4.5 CONFIGURATION WITH SMS MESSAGES	13
5 SETTING PARAMETERS USING <i>TRIKDISCONFIG</i> SOFTWARE.....	15
5.1 <i>TRIKDISCONFIG</i> STATUS BAR.....	16
5.2 “SYSTEM OPTIONS” WINDOW	16
5.3 “IN/OUT” WINDOW	17
5.4 “IP REPORTING” WINDOW	18
5.5 “USER LIST” WINDOW	19
5.6 “EVENTS LOG” WINDOW.....	21
5.7 RESTORE DEFAULT SETTINGS	22
6 SETTING PARAMETERS REMOTELY	22
7 TESTING OF GSM GATE CONTROLLER <i>GV17</i>	22
8 UPDATING FIRMWARE MANUALLY.....	23

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 **Protegeus** 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.

Features

Remote control

- With Mobile/Internet application **Protegeus**.
- With SMS messages.
- With phone call.

Messages for users

- Sends messages about events to the **Protegeus** 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 **Protegeus** 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 **Protegeus** 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 kΩ, 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

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)
COM	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
C	Relay terminal C
NO	Relay terminal NO
A RS485	Contact A of RS485 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 Protegeus 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.

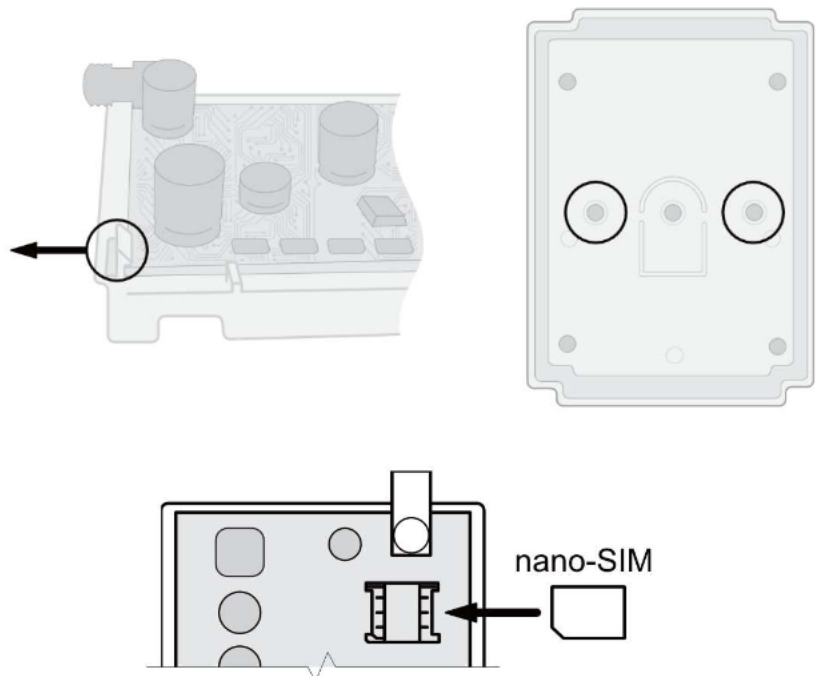
1.5 GSM gate controller GV17 standard packing list

- GSM gate controller GV17	1 pc.
- GSM antenna	1 pc.
- Resistor 10 k Ω	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

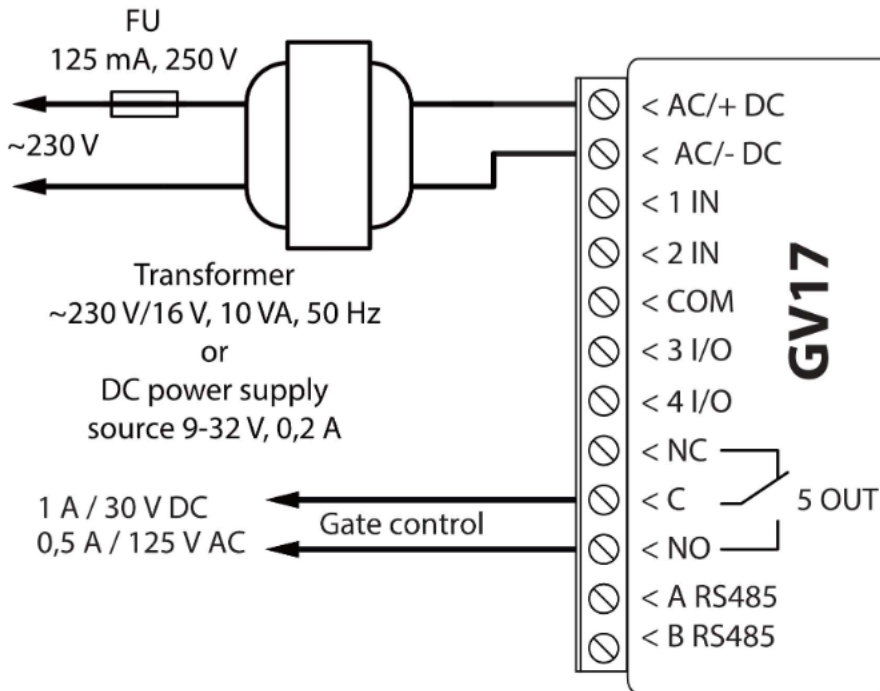
1. Remove the top lid. Pull out the plug part of the terminal block.
2. Remove the PCB board.
3. Fasten the base of the case in the desired place using screws.
4. Reinsert the board and the terminal block.
5. Screw the GSM antenna in.
6. Insert the nano-SIM card.
7. Close the top lid.



2.2 Schematic for connecting the power supply

Using wires, connect the **GV17** controller according to the schematic shown below.

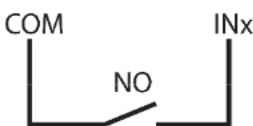
GV17 wiring diagram



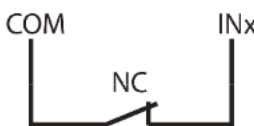
2.3 Schematics for connecting inputs

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 below:

Normally open (NO).
Short - Alarm; Open - Restore.



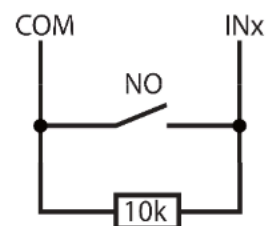
Normally closed (NC).
Short - Restore; Open - Alarm.



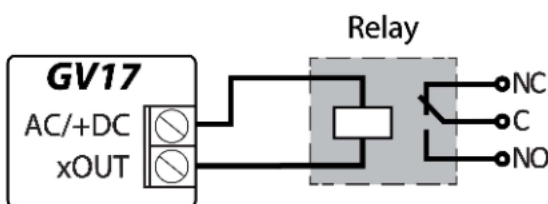
Normally closed with 10k End of line resistor (EOL). Short - Alarm; Open - Alarm; 10k - Restore.



Normally open with 10k End of line resistor (EOL). Short - Alarm; Open - Alarm; 10k - Restore.



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.

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 **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 +370xxxxxxxx#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 5 OUT 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: <ul style="list-style-type: none"> 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 *Proteus* cloud

With *Proteus* 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 *Proteus* app or use the browser version of *Proteus* at www.proteus.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.

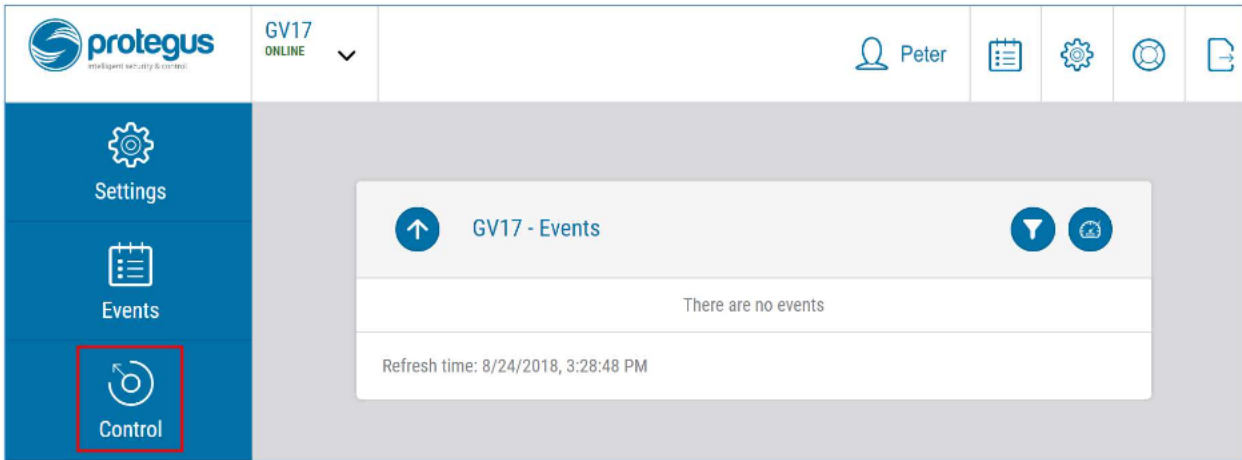


IMPORTANT: When adding the **GV17** to *Proteus*:

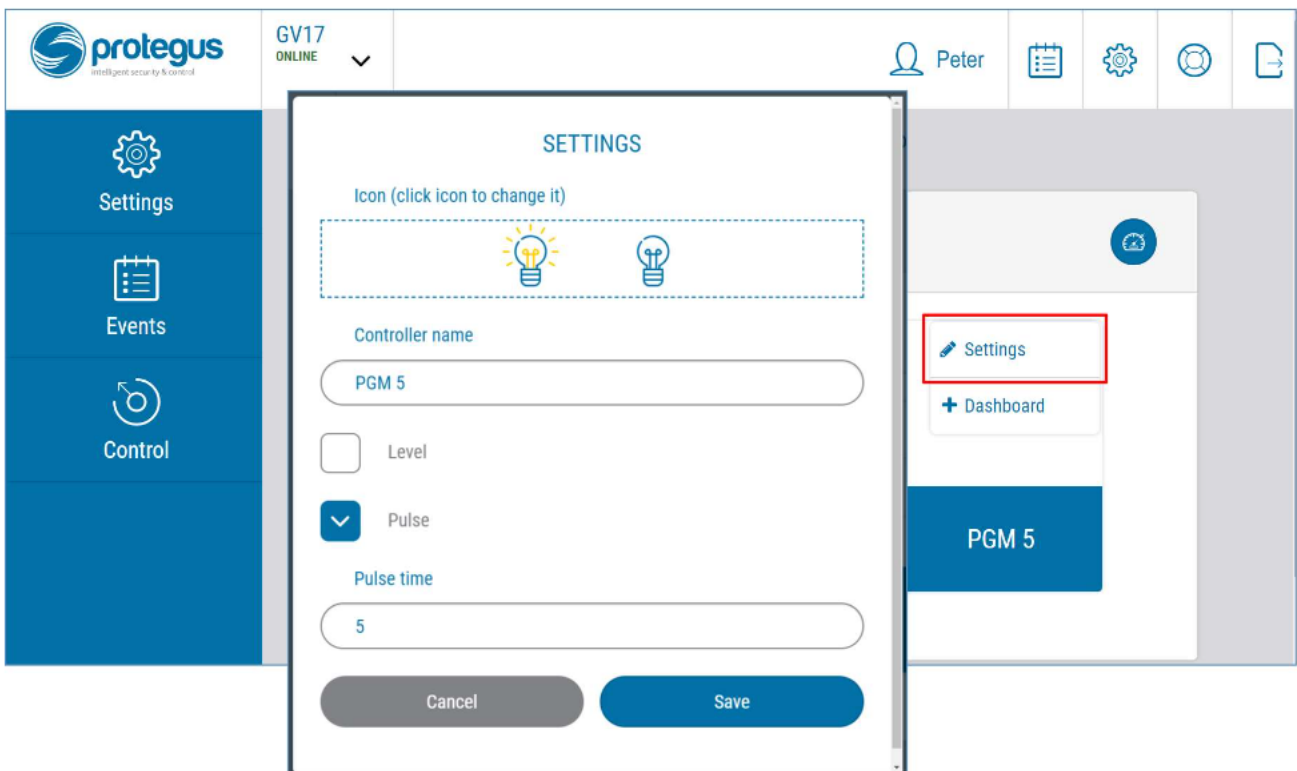
1. The *Proteus service* must be turned on. Turning on the service is described in chapter **5.4 Window "IP reporting"**;
2. The power supply must be turned on („POWER“ LED must blink green);

- Must be registered in to network („NETWORK“ LED must be green solid and blink yellow).

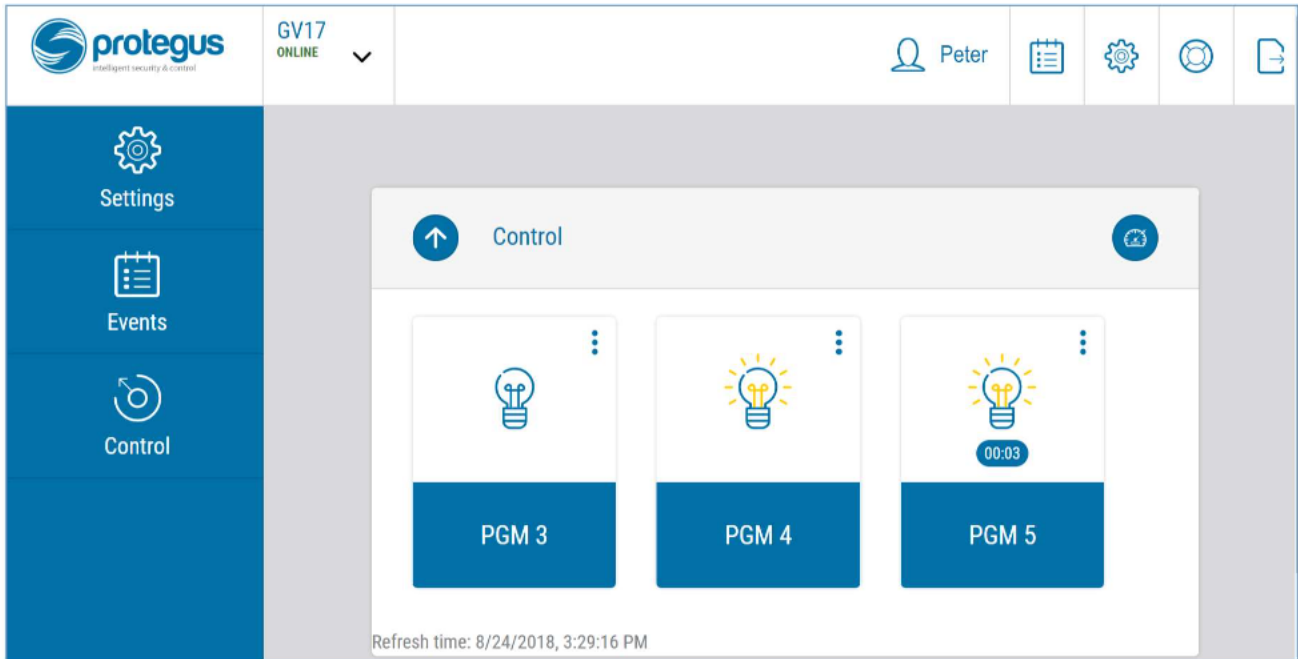
4. After adding the **GV17** to **Protegeus** choose **Control** in the newly opened window.



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



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)



4.4 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
<i>OUTPUTx</i>	<i>ON</i>	Turn on output. “x” – output number. E.g.: <i>OUTPUT5 123456 ON</i>
	<i>OFF</i>	Turn off output. “x” – output number. E.g.: <i>OUTPUT5 123456 OFF</i>
	<i>PULSE=ttt</i>	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>

4.5 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 **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 NrX=+PHONENR#NAME

xxxxxx 6-symbol administrator password.
NrX x – administrator's number in the list. (If you write **1**, 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.: INFO 123456
ASKI		Input status inquiry. E.g.: ASKI 123456
ASKO		Output status inquiry. E.g.: ASKO 123456
SETA	<i>NrX=phonenr#name</i>	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 Nr3=+37061234567#John
	<i>NrX=DEL</i>	Deletes phone number and name from the specified line. E.g.: SETA 123456 Nr2=DEL

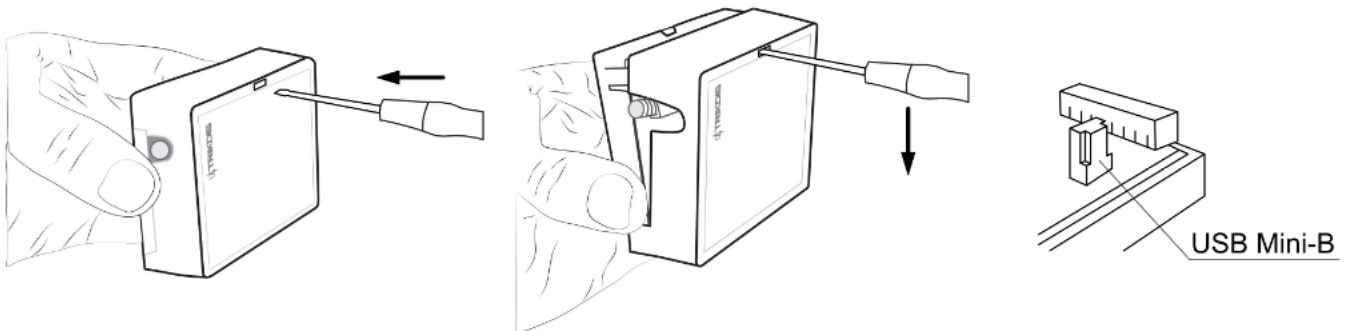
Command	Data	Description
SETU	<i>phonenr#name</i>	Add new user. Adds the phone number and name to the list. The number must be separated from the name with a hash (#). The number must start with + and the international code. E.g.: SETU 123456 +37061234567#Peter
DELU	<i>phonenr</i>	Delete user with specified phone number. E.g.: DELU 123456 +37061234567
	<i>name</i>	Delete user with specified name. E.g.: DELU 123456 Peter
SETB	<i>Email/phoneNo</i>	Add entry into black-list (e-mail; phone No.). Pvz.: SETB 123456 VardaS@mail.lt Pvz.: SETB 123456 +37060123456
DELB	<i>ALL</i>	Delete all black-list. E.g.: DELB 123456 ALL
	<i>Email/phoneNo</i>	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	<i>New password</i>	Change password. E.g.: PSW 123456 654123
TXTA	<i>Object name</i>	Set object name. E.g.: TXTA 123456 House
TXTE	<i>N1=<TEXT></i> <i>N5=<TEXT></i>	Set SMS text about input or output activation. <i>N1...N5</i> is the number of the contact on the terminal block. E.g.: TXTE 123456 N1=Alarm in the living room
TXTR	<i>N1=<TEXT></i> <i>N5=<TEXT></i>	Set SMS text about input or output recovery. <i>N1...N5</i> is the number of the contact on the terminal block. E.g.: TXTR 123456 N5=Relay turn offd
SETD	<i>IDx=yy</i>	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	<i>IDx</i>	Resets inactivity time for input "x", if the countdown has started. E.g.: RESD 123456 ID1
TIME	<i>YYYY/MM/DD,</i> <i>HH:mm:ss</i>	Set date and time. E.g.: TIME 123456 2018/01/03,12:23:00
RDR	<i>PhoneNR#SMStext</i>	Forwards the SMS text to the specified number. E.g.: RDR 123456 +37061234567#Refill account by 10EUR
UUSD	<i>*UUSD code#</i>	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#

Command	Data	Description
CONNECT	<i>Protegeus=ON</i>	Connect to <i>Protegeus</i> cloud. E.g.: CONNECT 123456 PROTEGUS=ON
	<i>Protegeus=OFF</i>	Disconnect from <i>Protegeus</i> cloud. E.g.: CONNECT 123456 PROTEGUS=OFF
	<i>APN=Internet</i>	APN name. E.g.: CONNECT 123456 APN=INTERNET
	<i>USER=user</i>	APN user. E.g.: CONNECT 123456 USER=User
	<i>PSW=password</i>	APN password. E.g.: CONNECT 123456 PSW=password
	<i>Code=password</i>	Change <i>Protegeus</i> 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 www.trikdis.com/it/ (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: GV17_1210	SN:000002	BL: 1.01	FW:1.04	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)
Administrator	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

Settings group “General”

- **Object ID** – enter account number (4 symbol hexadecimal number, 0-9, A-F), provided by the alarm receiving center.
- **Object name** – every event will be sent with the object name.
- **Time synchronization** – choose a source for setting the time.
- **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.

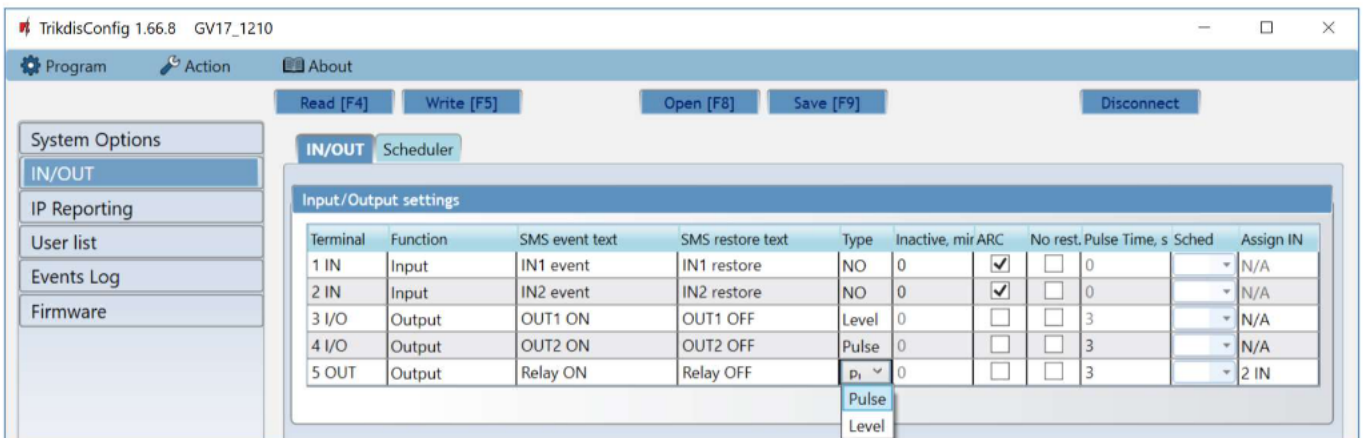
Settings group “Periodic test”

- **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 *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.

5.3 “IN/OUT” window



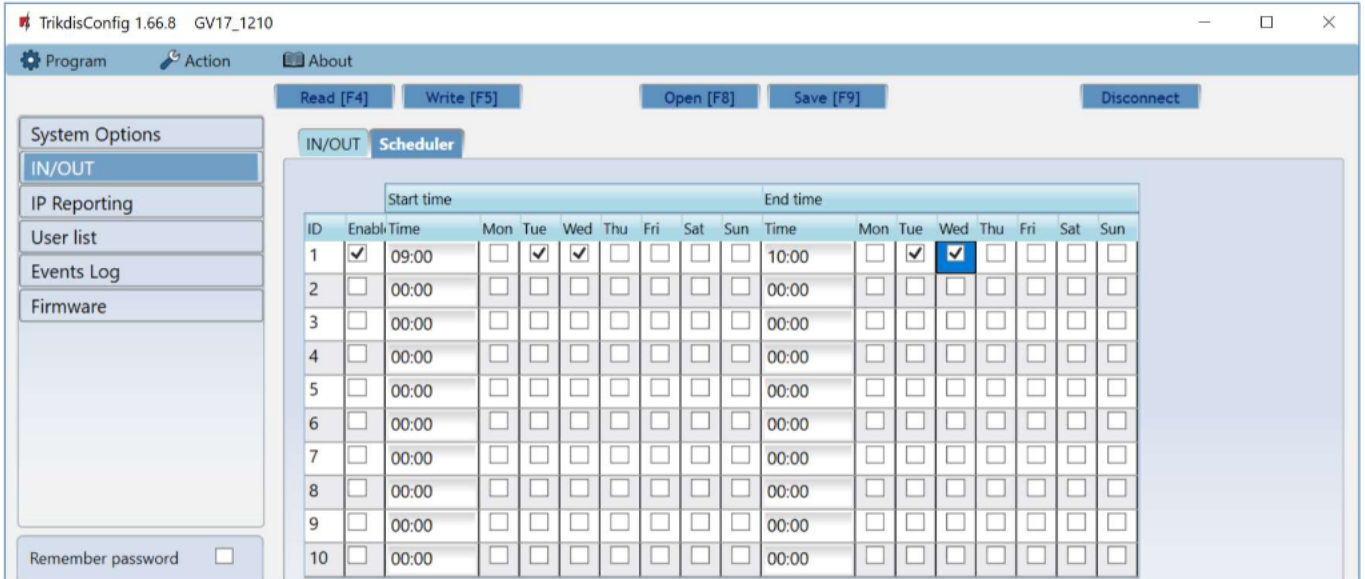
Terminal	Function	SMS event text	SMS restore text	Type	Inactive, mir	ARC	No rest.	Pulse Time, s	Sched	Assign IN
1 IN	Input	IN1 event	IN1 restore	NO	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0		N/A
2 IN	Input	IN2 event	IN2 restore	NO	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0		N/A
3 I/O	Output	OUT1 ON	OUT1 OFF	Level	0	<input type="checkbox"/>	<input type="checkbox"/>	3		N/A
4 I/O	Output	OUT2 ON	OUT2 OFF	Pulse	0	<input type="checkbox"/>	<input type="checkbox"/>	3		N/A
5 OUT	Output	Relay ON	Relay OFF	Pulse	0	<input type="checkbox"/>	<input type="checkbox"/>	3		2 IN

“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.
- **ARC** – if box is ticked, the message will be sent to ARC (Alarm Response Center) 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.

“Scheduler” tab



- **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 “IP Reporting” window



Settings group “Primary channel”

- **Communication type** – choose the type of communication (IP, SMS) with the ARC (Alarm Receiving Center) receiver.
- **Domain or IP** – enter the receiver’s domain or IP address.
- **Port** – enter the receiver’s network port number.

- **Tel number** – phone number of ARC 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 ARC 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”

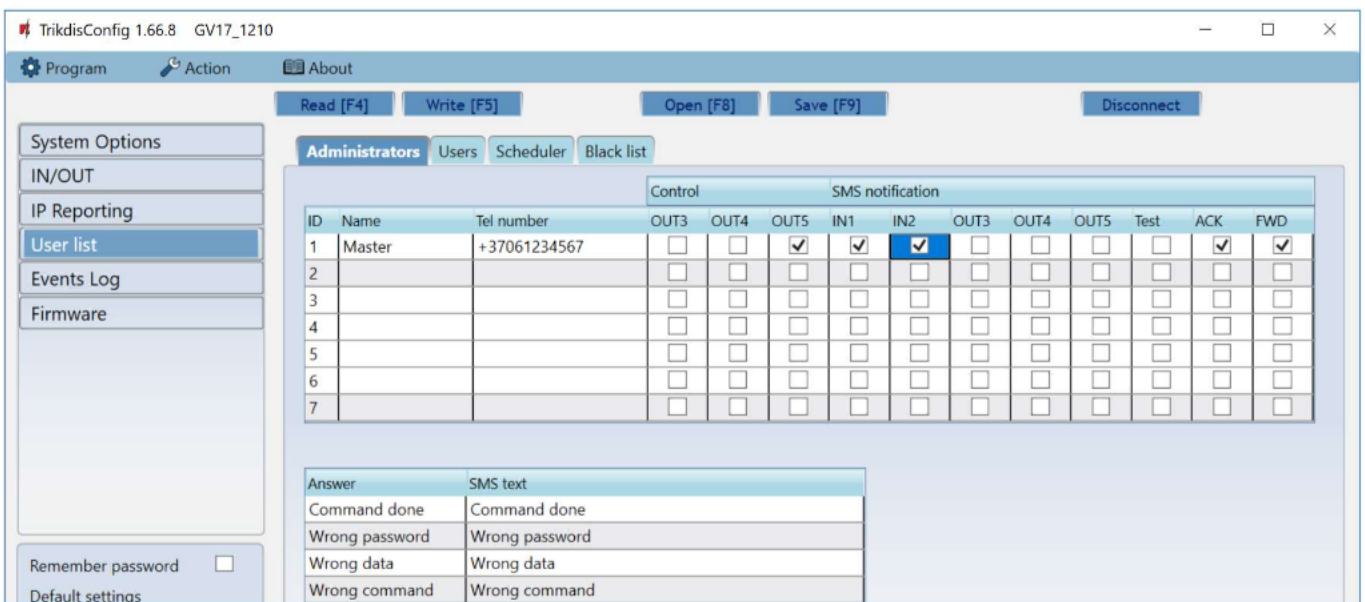
- **Tel number** - phone number of ARC receiver capable of receiving SMS messages (e.g.: 370xxxxxxx). The backup SMS channel is used when messages fail to send with both primary and backup channels. It is extremely useful because it functions even when IP connectivity is disrupted in the mobile operator’s 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 **Protegeus** service, the **GV17** will be able to exchange data with the **Protegeus** app and also remote configuration with **TrikdisConfig** will be possible.
- **Parallel reporting** – the messages are sent simultaneously to the ARC, **Protegeus** and to users. When not enabled, messages to Protegeus and users will be sent only after being sent to ARC.
- **Protegeus Cloud Code** – 6-digit code for connecting with **Protegeus** (default code - 123456).

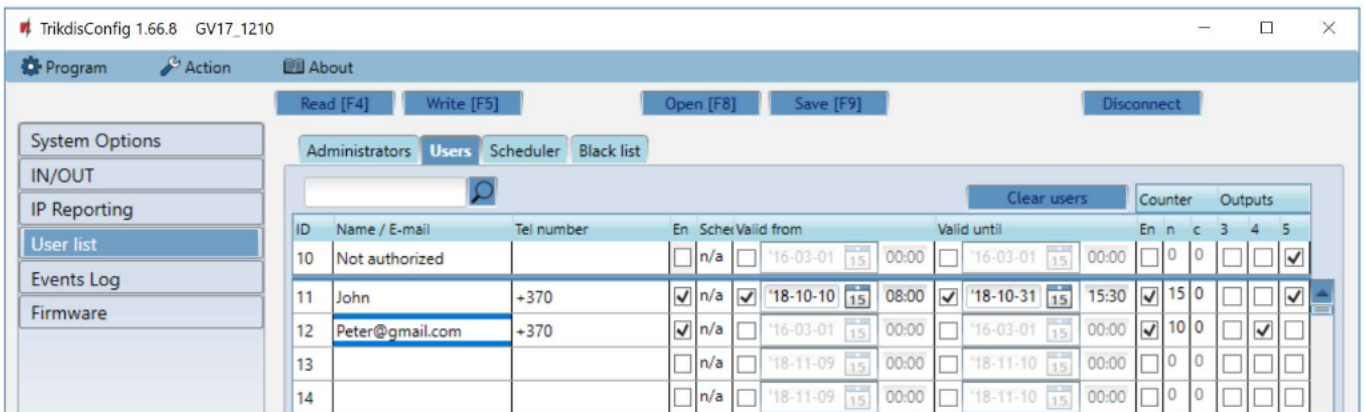
5.5 “User list” window

“Administrators” tab



- **Name/E-mail** – specify administrator’s name or e-mail address.
- **Tel number** – specify administrator’s phone number (e.g.: +370xxxxxxxx).
- **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.

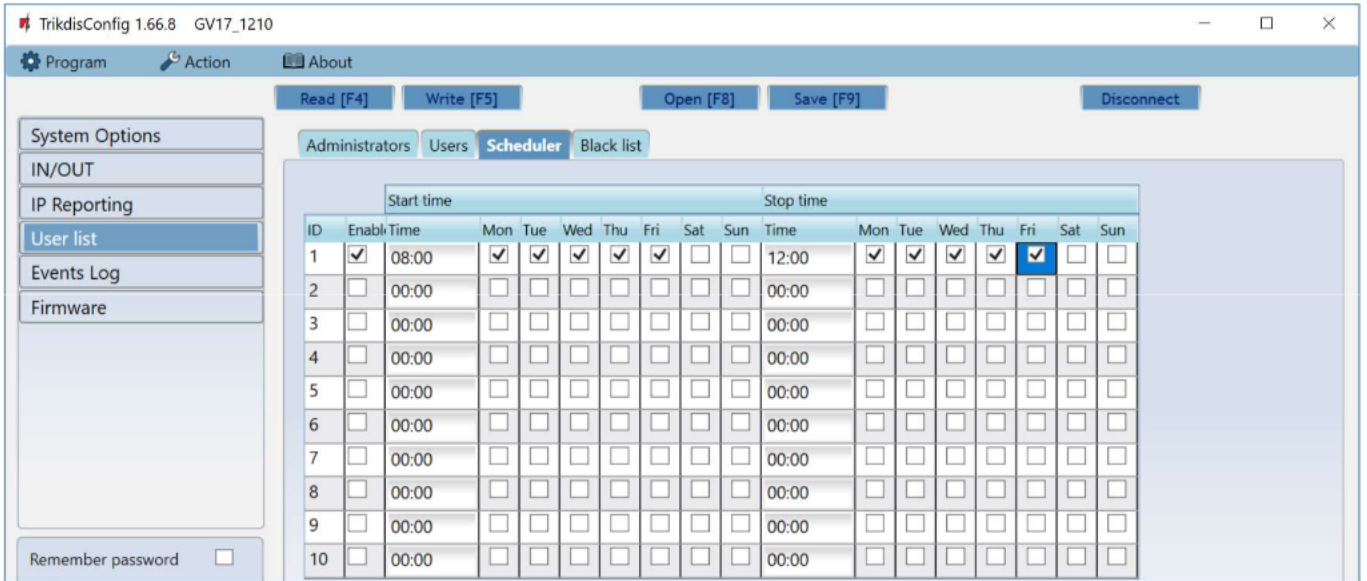
“Users” tab



- **Name/E-mail** – specify user’s name or e-mail address.
- **Tel number** – specify user’s phone number (e.g.: +370xxxxxxxx).
- **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.

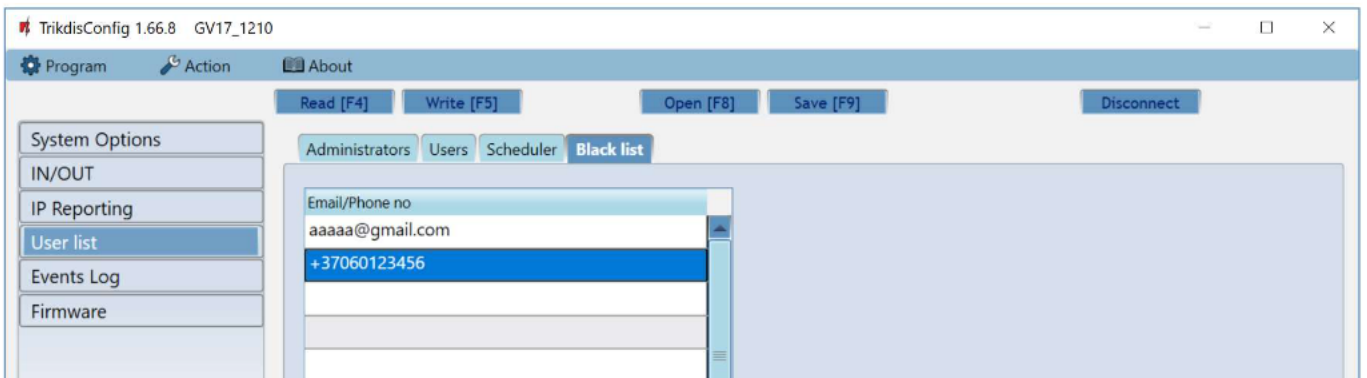
Note: If box **En**. Is unticked for user No.10 with the name **Not authorized**, users not on the users list will be banned from controlling the controller with phone call.

“Scheduler” tab



- **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.

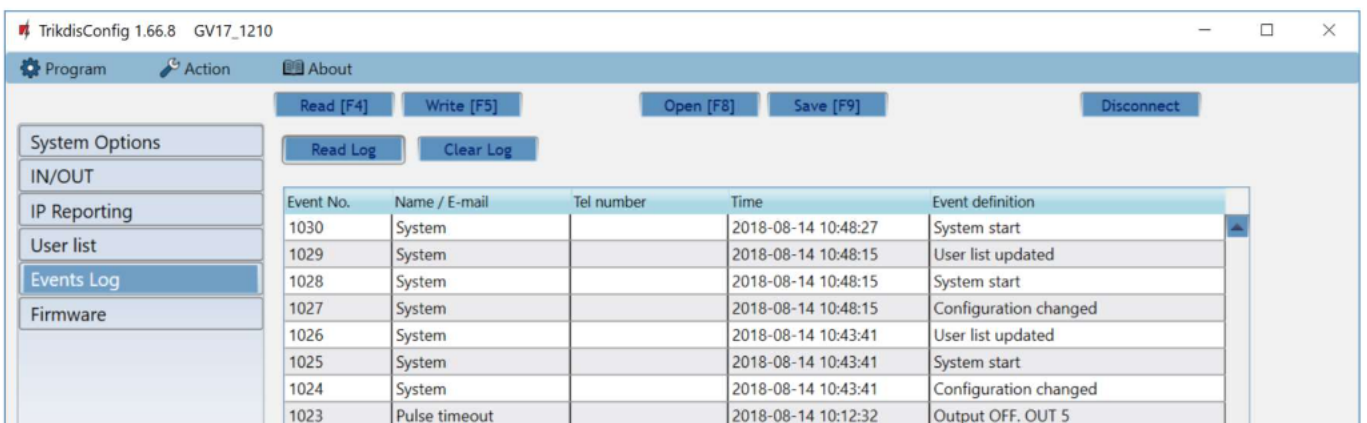
“Black list” tab



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”.

5.6 “Events Log” window



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.

5.7 Restore default settings

To restore the default settings of the **GV17** controller you need to click the **Restore** button in the **TrikdisConfig** program window.

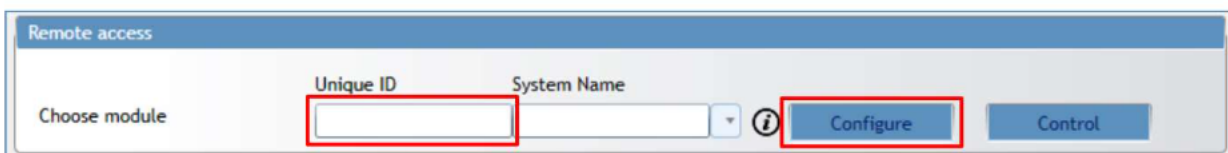


6 Setting parameters remotely

IMPORTANT: Remote configuration will only work when:

1. **Protegeus service** is enabled. Enabling the service is described in chapter 5.4 “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 www.trikdis.com.
2. Make sure that the **GV17** controller is connected to the internet and connection to **Protegeus** is enabled.
3. 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).



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;

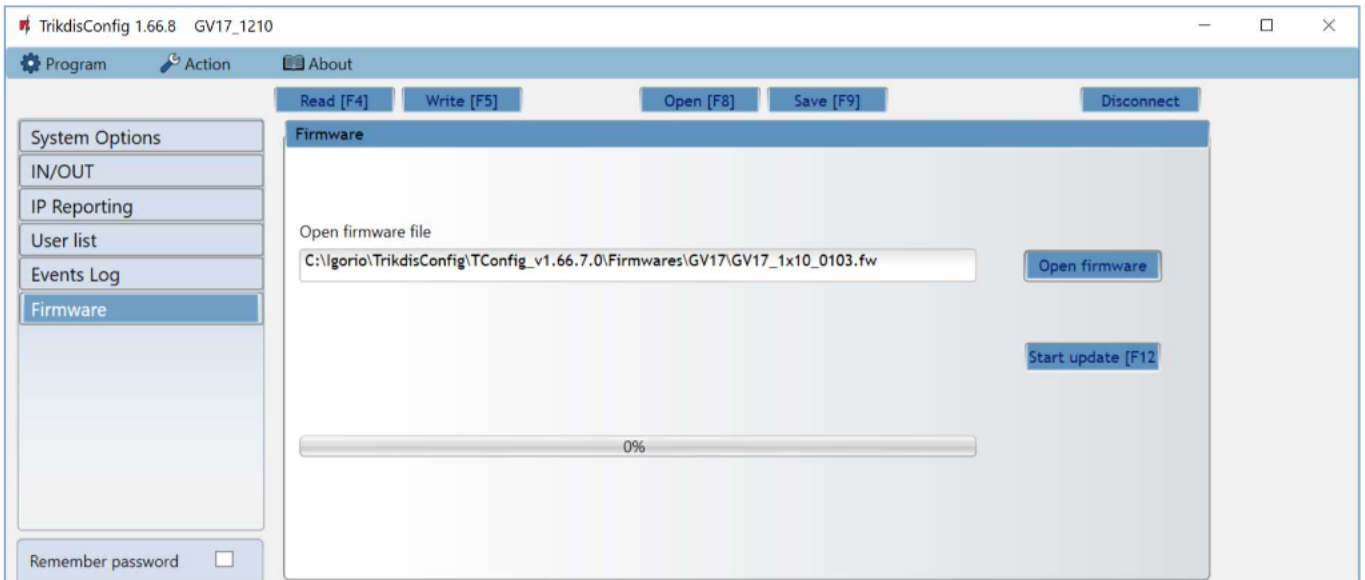
- To test the **GV17**'s outputs, turn them on remotely and make sure that the recipients get correct messages and the outputs are activated correctly.

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.

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:

- Launch **TrikdisConfig**.
- 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.
- Choose the menu branch **Firmware**.
- 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**.



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

Note: 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.

