

GSM gate controller **GV17**

Short installation manual

You can use *GV17* controller to remotely control gates, barriers and other equipment.

Control the system with *Protegeus* app, phone call or SMS.

This manual describes how to install *GV17* without configuring it via USB.

If needed, using *TrikdisConfig* program or *Protegeus* application you can:

- Add and delete users (up to 990) and administrators (up to 7).
- Check the events log.

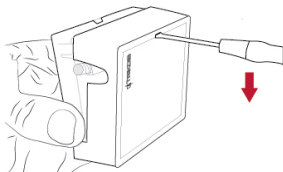
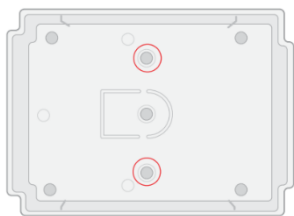
Additionally, using *TrikdisConfig* program you can:

- Set a schedule when users can control the system;
- Set a counter for how many times certain users can control the system;
- Customize what SMS text will be sent after an input or output is activated or restored.
- Set dual purpose contacts to operate in input or output mode;
- Set input type (NC, NO, EOL) and output type (pulse, level);
- Turn on event reporting to security company receiver;
- Etc.

Find the configuration program *TrikdisConfig* and product specifications in GV17 page on trikdis.com

I. Installation and wiring

1. Remove the upper cover, pull out the terminal block connector.



2. Take out the PCB board from the casing. Fix the casing to chosen place with self-tapping screws.

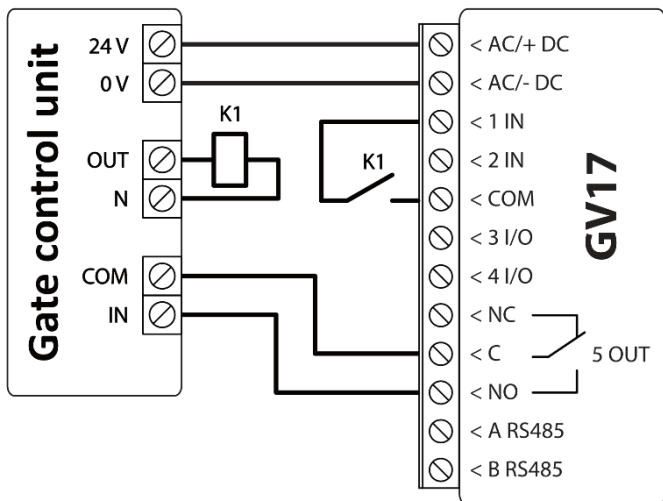
3. Place the PCB board back into the casing. Insert the terminal block.
4. Screw the GSM antenna to the antenna connector.
5. Place a Nano size SIM card to the SIM card slot.

!! It is necessary to disable the SIM card PIN code request before inserting the SIM to *GV17*! You can do this using a mobile phone.

Alternatively, you can enter the SIM card PIN via *TrikdisConfig* program using a USB.

6. Following the scheme, connect the relay contact to the device you wish to control and connect the power supply:

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



Find which contacts you need to connect to *GV17* relay contacts in the manual of the device that you wish to control. Usually these contacts are a certain input (x IN) and common terminal (COM).

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. 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).

7. Turn on the power supply. This *GV17* LED indication has to appear:

- „POWER“ LED *blinking green*;
- „NETWORK“ LED *blinking green*.

You successfully wired the *GV17*, it is ready for remote control.

LED indication

LED	LED Status	Description
NETWORK	Green solid	Connected to GSM network
	Blinking yellow	GSM signal strength from 0 to 5. Sufficient is 3.
DATA	Green solid	Sending message
	Yellow solid	Unsent events are stored in buffer
POWER	Blinking green	Power supply is sufficient
	Blinking yellow	Low power supply voltage
	Blinking green and yellow	Configuration mode
TROUBLE	Not solid and not blinking	No trouble
	1 blink	No SIM card
	2 blinks	Incorrect SIM card PIN code
	3 blinks	Cannot connect to GSM network
	4 blinks	Cannot connect to <i>Protegeus</i> or to primary IP receiver
	5 blinks	Cannot connect to backup IP receiver
	6 blinks	Internal <i>GV17</i> clock is not set
7 blinks	Power supply is insufficient	

If the controller LED indication is completely off, check the power supply and connections.

II. Remote control via phone call

Make a call to the number of the inserted SIM card.

Default settings allow everyone to control, who call the telephone number of the SIM card inserted to *GV17*.

A call will turn on the 5 OUT relay output for 3 (three) seconds. The phone call is free of charge as the controller automatically rejects it.

The first user who calls the controller (or sends an SMS) will become the system administrator and will be the only one who can manage and control the *GV17* with SMS commands.

III. Remote control via *Protegeus* application

!! Internet connection is necessary for communication with *Protegeus*.
Make sure that internet access is enabled for the SIM inserted into *GV17*.

1. Turn on the internet access for the controller

To enable connection with *Protegeus*, send an SMS in such format to the telephone number of SIM card inserted in the *GV17*:

Connect xxxxxx protegeus=on,apn=internet

xxxxxx

6-digit administrator password
(default password – 123456)

protegas=on Command to start communication with *Protegas*
internet SIM card provider's wireless internet APN value
(often "internet" is suitable)

2. Connect and add the controller to *Protegas*

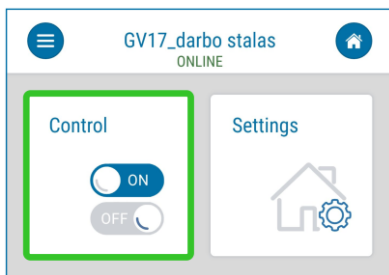
1. Download and run the *Protegas* application or use the version online www.protegas.eu/login:



2. Log in or sign in.
3. Click on *Add new system* and type in *GV17 Unique ID* number. You can find this number on the device or the packaging sticker.

3. Control the system via *Protegas* application

1. In *Protegas* system window click the button **Control**.
2. Click the control button. Shining light or opened gates show that *GV17* controllable output is active.



IV. Remote control via SMS

Control the relay output 5 *OUT* with these SMS commands:

OUTPUT5 xxxxxx ON

OUTPUT5 xxxxxx OFF

OUTPUT5 xxxxxx PULSE=002

<i>xxxxxx</i>	6-digit administrator password
<i>ON</i>	Turn on the output
<i>OFF</i>	Turn off the output
<i>PULSE=ttt</i>	Turn on the output for a period of time. "ttt" is pulse duration in seconds.

In order to control other outputs with SMS, enable them in *TrikdisConfig*.

V. Adding a Widget on your phone

The gate control Widget can be placed on your phone's home screen. Adding a widget is described in the device's manual.

VI. System administration via SMS

1. Changing the administrator's password

To ensure safety, change the default administrator SMS password. Send an SMS in this format:

PSW 123456 xxxxxx

123456 Default administrator password
xxxxxx The new 6-digit administrator password

2. Allow only authorized users to control the system

You can limit the users who can control the system. Send an SMS from the administrator's phone with people's phone numbers and names:

SETU xxxxxx +PHONENo#NAME

xxxxxx 6-digit administrator password
PHONENo User's phone number
NAME User's name or email address

After adding the first user's phone number to *GV17* phone number list, the controller will only respond to calls from the listed phone numbers. The controller will ignore other calls.

3. Give the system administrator's rights to another user

The administrator's rights can be given to other users. They will receive system's notifications and will be able to add users. Send an SMS in this format:

SETA xxxxxx NoX=+PHONENo#NAME

xxxxxx 6-digit administrator password
NoX X – administrator's number in the list
PHONENo User's phone number
NAME User's name or email address

If you type *No1* in the SMS message, you will transfer your administrator's rights to another user.

Command	Data	Description
<i>INFO</i>		Request information about the controller. The response will include: controller type, IMEI number, serial number and software version. E.g.: <i>INFO 123456</i>
<i>OUTPUTx</i>	<i>ON</i>	Turn on the output. „x“ – output number. E.g.: <i>OUTPUT5 123456 ON</i>
	<i>OFF</i>	Turn off the output. „x“ – output number. E.g.: <i>OUTPUT5 123456 OFF</i>
	<i>PULSE=ttt</i>	Turn on the output for a period of time. „ttt“ is pulse duration in seconds, from 1 to 999. E.g.: <i>OUTPUT5 123456 PULSE=002</i>
<i>ASKI</i>		Input status inquiry. E.g.: <i>ASKI 123456</i>
<i>ASKO</i>		Output status inquiry. E.g.: <i>ASKO 123456</i>

Command	Data	Description
<i>PSW</i>	<i>New password</i>	Change password. E.g.: <i>PSW 123456 654123</i>
<i>TXTA</i>	<i>Object name</i>	Set object name. E.g.: <i>TXTA 123456 House</i>
<i>TXTE</i>	<i>N1=<TEXT></i> <i>N5=<TEXT></i>	Set SMS text about input or output activation. <i>N1...N5</i> – number of the terminal contact. E.g.: <i>TXTE 123456 N1=Alarm in the living room</i>
<i>TXTR</i>	<i>N1=<TEXT></i> <i>N5=<TEXT></i>	Set SMS text about input or output recovery. <i>N1...N5</i> - number of the terminal contact. E.g.: <i>TXTR 123456 N5=Relay is off</i>
<i>SETA</i>	<i>NoX=phoneNo#name</i>	Add an administrator to the list. User's phone number and name will be written to the specified line. Phone number has to be separated from the name using a hashtag (#). The number must start with (+) and country code. E.g.: <i>SETA 123456 No3=+37061234567#John</i>
	<i>NoX=DEL</i>	Delete administrator's phone number and name from the specified place. E.g.: <i>SETA 123456 No1=DEL</i>
<i>SETU</i>	<i>PhoneNo#name</i>	Add a new user. Saves user's phone number and username. Phone number has to be separated from the name using a hashtag (#).The number must start with (+) and country code. E.g.: <i>SETU 123456 +37061234567#John Snow</i>
<i>DELU</i>	<i>PhoneNo</i>	Delete a user using his phone number. E.g.: <i>DELU 123456 +37061234567</i>
	<i>Name</i>	Delete a user using his name. E.g.: <i>DELU 123456 John Snow</i>
<i>SETD</i>	<i>IDx=yy</i>	Set „x“ input inactivity time. „yy“ is the inactivity time in minutes, from 0 to 2880. After the input is activated, controller will send a notification and will not react to following circuit disruptions during the set time. If 0 is entered, inactivity will be turned off. E.g.: <i>SETD 123456 ID1=30</i>
<i>RESD</i>	<i>IDx</i>	Resets „x“ input inactivity time, if the countdown has started. E.g.: <i>RESD 123456 ID1</i>
<i>RESET</i>		Restart the controller. E.g.: <i>RESET 123456</i>
<i>TIME</i>	<i>YYYY/MM/DD</i> , <i>HH:mm:ss</i>	Set time and date. E.g.: <i>TIME 123456 2018/01/03,12:23:00</i>
<i>RDR</i>	<i>PhoneNo#SMStext</i>	Forward SMS messages to specified number. E.g.: <i>RDR 123456 +37061234567#top-up the phone 10EUR</i>
<i>UUSD</i>	<i>*UUSD code#</i>	Sends UUSD code to the network operator. With UUSD codes (given by the operator) it is possible to check and top-up the SIM card balance, execute other actions. E.g.: <i>UUSD 123456 *245#</i>
<i>Connect</i>	<i>Protegeus=ON</i>	Connect to <i>Protegeus cloud</i> . E.g.: <i>CONNECT 123456 PROTEGUS=ON</i>
	<i>Protegeus=OFF</i>	Disconnect from <i>Protegeus cloud</i> . E.g.: <i>CONNECT 123456 PROTEGUS=OFF</i>

Command	Data	Description
	<i>APN=internet</i>	APN name. E.g.: <i>CONNECT 123456 APN=internet</i>
	<i>USER=user</i>	APN user. E.g.: <i>CONNECT 123456 USER=user</i>
	<i>PSW=password</i>	APN password. E.g.: <i>CONNECT 123456 PSW=password</i>
	<i>Code=password</i>	Change <i>Protegeus Cloud</i> password. E.g.: <i>CONNECT 123456 Code=123456</i>

VII. Remote configuration via *TrikdisConfig*

If needed, you can configure the *GV17* with program *TrikdisConfig* remotely:

1. Download *TrikdisConfig* from www.trikdis.com.
2. Make sure that the controller is connected to the internet and the communication with *Protegeus* is enabled (see part III. **Remote control via *Protegeus* application**)
3. After opening the program, enter the *IMEI/Unique ID* number of the device to *Unique ID* field and click **Configure**:

In the program, every field is explained with hints that appear after holding the mouse pointer on the required field.

4. Click **Read [F4]** to read the parameters already set in the controller.
5. Set the needed settings and after the job is finished click **Save [F5]**.

For further assistance visit:

www.trikdis.com

