

Gate controller GATOR WiFi Installation manual

March, 2025





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Safety precautions

The 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

The Wi-Fi controller **GATOR WiFi** is designed for remote control of an automatic door (or other electrical equipment).

GATOR WiFi can be controlled with **Protegus2** app. The controller can enter 1000 users (you need to specify the user's e-mail). The **GATOR WiFi** controller can be used to set the user control schedule, set the counter, how many times the user can control the system. The controller can send messages about input and output activation and restores to the CMS (Central Monitoring Station) receiver and the **Protegus2** app.

Features

Remote control

• With Mobile application *Protegus2*.

Messages for users

• Sends messages about events to the *Protegus2* application.

Messages for security 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 *Protegus2* app.
- If connection with the main receiver is lost, the messages are automatically sent to a backup receiver.

Inputs and outputs

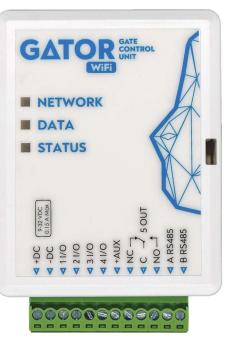
- 4 universal inputs/outputs. Mode of operation is set as either input (NO; NC; EOL) or output.
- 1 output (OUT) relay.
- With the *iO-LORA* expander, one additional input and one output (relay contact) can be added. A total of 8 *iO-LORA* expanders can be added (adding up to 8 additional inputs and 8 additional outputs).

Settings and installation

- Quick and easy installation.
- Addition of new users and deletion of existing users can be done with the **Protegus2** app (when logged in with administrator rights), **TrikdisConfig** software.
- Device can be configured either by connecting a USB Mini-B cable or remotely with the *TrikdisConfig* software.
- Remote updating of firmware.

1.1 Specifications

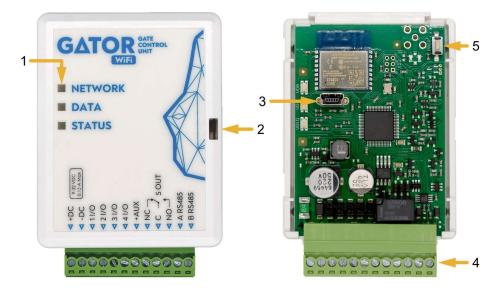
Parameter	Description
Power supply voltage	9-32 V DC
Current consumption	150 mA
Universal inputs/outputs	4, can be set either as input IN with type: NC, NO, EOL=10 k Ω , or output OUT (open collector (OC) 50 mA)
Output	1 vnt., relay, 1 A 30 V DC, 0,5 A 125 V AC
Connection to CMS	TCP/IP or UDP/IP via Wi-Fi
Event transmission protocol	TRK_TCP or TRK_UDP
Encryption key	6 symbol encryption key
Wi-Fi frequency	2,4 GHz
Wi-Fi protocol	802.11 b/g/n





Parameter	Description
Security mode	WPA, WPA2, WPA mixed
Network configuration type	DHCP or manual network configuration (using phone or laptop)
Unsent events memory	Up to 60 events
Event log memory	Up to 5000 events
Users who have permission to control	1000
Supported modules	<i>iO-LORA</i> – expander module (when using <i>iO-LORA</i> , an <i>RF-LORA</i> transceiver <i>must be</i> connected to <i>GATOR WiFi</i>)
Operating environment	Temperature from –10 °C to +50 °C, relative air humidity – up to 80 % at +20 °C
Dimensions	88 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. Button for activating the module's Wi-Fi configuration mode.

1.3 Purpose of terminals

Terminal	Description
+DC	Power terminal (9-32 V DC positive)
-DC	Power terminal (9-32 V DC negative)
1 I/O	Input/output (factory setting: input, NO)
2 1/0	Input/output (factory setting: input. NO)
3 I/O	Input/output (factory setting: type OC output)
4 1/0	Input/output (factory setting: type OC output)
+AUX	Positive power terminal for external devices
NC	Relay terminal NC
С	Relay terminal C
NO	Relay terminal NO
A RS485	RS485 bus A terminal
B RS485	RS485 bus B terminal

5



1.4 LED indication of operation

Indicator	Light status	Description					
NETWORK	Green solid	Connected to Wi-Fi network					
	Green blinking	Trying to connect to Wi-Fi network					
	Yellow blinking	Indication of signal strength from 0 to 5.					
	Flashing green yellow quickly	Wi-Fi configuration mode					
DATA	Green solid	Message is being sent					
	Yellow solid	There are unsent event messages in the data buffer					
STATUS	Green blinking	No operation problems					
	1 red blink	Unable to connect to Wi-Fi network					
	2 red blinks	Poor Wi-Fi signal strength					
	3 red blinks	Unable to connect to the IP receiver using the primary channel					
	4 red blinks	Unable to connect to Protegus2 server					
	5 red blinks	Unable to connect to both receiver channels					
	6 red blinks	Internal clock of the GATOR WiFi is not set					
	7 red blinks	Low power supply voltage					

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.Order the necessary components separately from your local retailer.

1.5 Controller GATOR WiFi standard packing list

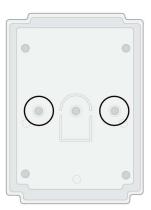
-	Controller GATOR WiFi	1 pc.
-	Resistor 10 kΩ	3 pcs.
-	Double-sided adhesive tape (5 cm)	1 pc.
-	Screw	2 pcs.

2 Wiring schematics for the controller GATOR WiFi

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. Close the top lid.

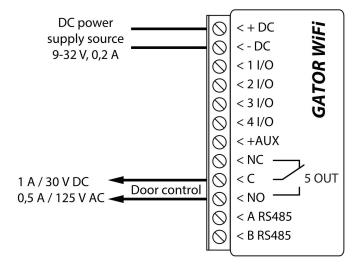






2.2 Schematic for connecting the power supply

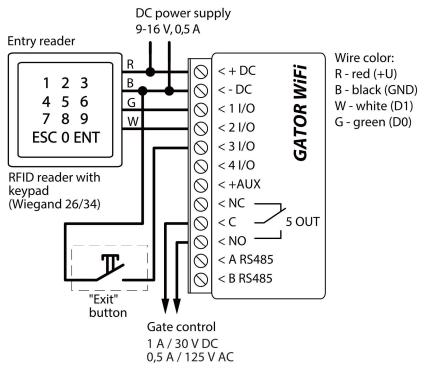
Using wires, connect the GATOR WiFi controller according to the schematic shown below.



2.3 Schematic for connecting the RFID reader (Wiegand 26/34)

Configuring controller with an RFID reader is described in chapter 5.3. ""IN/OUT" window". Only output 5 OUT can be controlled with an RFID reader.

Schematic for connecting of RFID reader to GATOR WiFi controller.



In the *TrikdisConfig* program, the "Wiegand reader mode" field must be selected. When by pressing the "Exit" button, the "50UT" output of the controller will be activated for the set pulse duration.

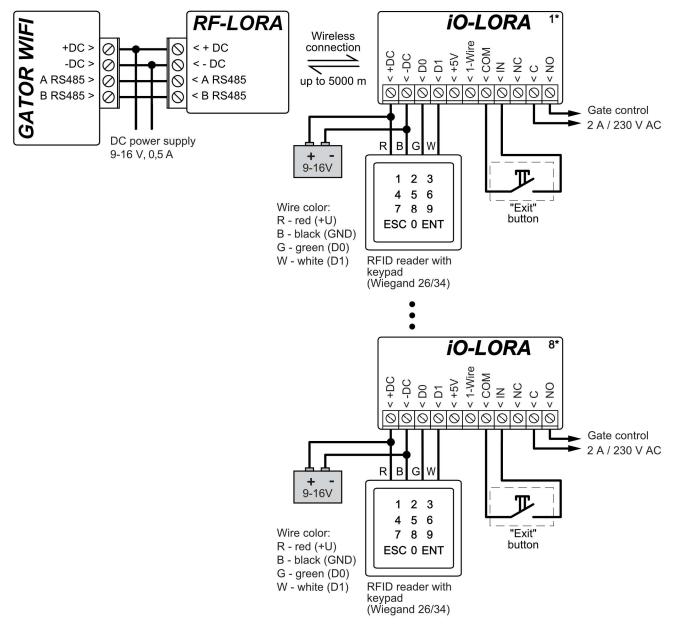


Program Action	About												
Program Action	Read [[F5] (Open [F8]	Save	e [F9]				Disco	nnect		
System Options N/OUT	IN/OL												
Modules		Output settings	Name	Туре	Inactiv	e, Delay	CMS	No rest	.Pulse, s	Sched	Assign	IlConfirm	mCTRL t
P Reporting	11/0	Disabled	I01	N/A	0	400	-		0	Contraction of the second	N/A	N/A	N/A
Jser list	21/0	Disabled	102	N/A	0	400	~		0		N/A	N/A	N/A
vents Log	31/0	Disabled	103	N/A	0	400	-		0		N/A	N/A	N/A
	41/0	Disabled	104	N/A	0	400	-		0		N/A	N/A	N/A
irmware	5 OUT	Output	Output5	Pulse	0	400	-	-	3		N/A	N/A	N/A
	Tag res	ader settings											

2.4 Schematic for connecting of the iO-LORA expander with RFID reader

Firmware version of the GATOR WiFi controller from 1.21.

Connect the *RF-LORA* transceiver to the *GATOR WiFi* controller. After that, you can use the *iO-LORA* expander, to which the RFID reader (Wiegand 26/34) is connected. The RFID reader controls the PGM output of the *iO-LORA* expander, to which it is connected. *GATOR WiFi* and eight *iO-LORA* modules connected to it can control nine different doors.





Launch *TrikdisConfig*. Connect *GATOR WiFi* via USB Mini-B cable to the computer or remotely. Press the **Read [F4]** button and the *TrikdisConfig* program will display the current controller settings. If requested, enter the Administrator or Installer 6-digit code in the pop-up window. Select "iO-LORA controller" from the "Modules" list. In the "Serial No." field, enter the serial number of the device.

🕴 TrikdisConfig 1	1.66.60 WP17					-	×
🔅 Programa	🎤 Veiksmai	🛄 Api	e programą				
		Skaityti [F4] [rašyti [F5]	Atverti [F8] Išsa	ugoti [F9]	Atsijungti	
Sistemos pari	nktys	Modul	iai				
Moduliai		ID	Modulis	Serijos Nr.	Pavadinimas	Mikroprogramos versija	
		1	iO-LORA valdiklis	000146	Expander ID1		
IP pranešimai		2	Nenaudojamas		Expander ID2		

In the "IN/OUT" list, the "EXIT button" must be specified for the "6 IN" input. When the "Exit" button is pressed, the *iO-LORA* "7 OUT" output is activated for the set pulse duration.

	En Ap	ie programą											
	Skaityti	[F4] [rašyti [F5]		Atverti [F8]	Išsaugo	oti [F9]				Atsiju	ngti	1	
Sistemos parinktys	IN/OU	JT Grafikas Šventė	5										
IN/OUT	làiimu	/lšėjimų nustatymai											
Moduliai			1										
IP pranešimai		Paskirtis	Pavadinimas			ra Užlaikym		Be atsi	Impulsas,	Grafikas	1	1	
ir pranesimai	11/0	lšjungta	IO1	N/A	0	400	~		0	-	N/A	N/A	N/A
Vartotojai	21/0	lšjungta	102	N/A	0	400	-		0	-	N/A	N/A	N/A
lvykių žurnalas	31/0	lšjungta	IO3	N/A	0	400	~		0		N/A	N/A	N/A
	41/0	lšjungta	104	N/A	0	400	-		0	*	N/A	N/A	N/A
Programos atnaujinimas	5 OUT	lšėjimas	Output5	Impuls	0	400	~	~	3	-	N/A	N/A	N/A
	6 IN (i	lšėjimo mygtukas	IN6	NO	0	200			0	-	N/A	N/A	N/A
	7 OUT	lšėjimas	OUT7	Impuls	0	0	-	-	3	-	N/A	N/A	N/A
		2 12			_								
	Skaityt	uvo parametrai											

In the "Users" list, specify the number of the RFID card, the user's name, enable the permission to control the PGM output, specify the PGM output (which will be controlled by the user), the code. After completing the settings, click Write [F5]. Wait until the process of updating the controller settings is finished. Click "Disconnect" and disconnect the USB cable.

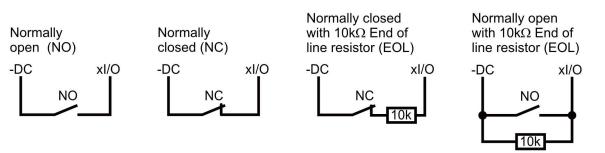
📫 TrikdisConfig 1.66.60 WP17										-	×
🏠 Programa 🛛 🎤 Veiksmai		Apie programą									
	Skaity	yti [F4] [rašyti [F5]		Atverti [F8] Išs	saugot	i [F9]			Atsijungt	i -	
Sistemos parinktys	Var	rtotojai Grafikas Juod	asis sarašas								
IN/OUT		P						_			
Moduliai			Registruokite RFI				lšėjir i(
IP pranešimai	Nr.	EL. pašto adresas	RFID kodas	Vardas	U I	Schedule	1 1	Kodas	Daugiau parametrų		
	10			Not authorized		*			Daugiau parametrų		
Vartotojai	11	jonas@trikdis.lt		Jonas	•	-		1498	Daugiau parametrų	-	
Įvykių žurnalas	12	pertas@trikdis.lt	0007465412	Petras	~				Daugiau parametrų	-	
Programos atnaujinimas	12							_	Daugiau pagagatau		

Activate PGM output with RFID card/code. Press the "Exit" button (the PGM output must activate for the set pulse duration).

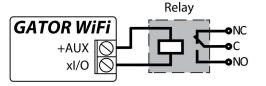


2.5 Schematics for connecting inputs

The **GATOR WiFi** has four universal **I/O** (Inputs/Outputs) terminal, which can operate either as inputs or outputs. These inputs can operate in NC, NO, EOL modes. Connect the inputs according to the set input type (NC, NO, EOL) as is shown in the schematics bellow:



2.6 Schematic for connecting the relay



Using the contact of the relay, it is possible to remotely control (turn on/off) various electric devices. The "**Output**" mode must be set to the **xI/O** terminal.

2.7 Schematic for connecting the LED



The "Output" mode must be set to the xI/O terminal.

3 Control with the *Protegus2* app

With *Protegus2* app users will be able to control controller remotely. They will also be able to see the system state and receive all system event messages.

1. Download and launch the *Protegus2* app or use the browser version of *Protegus2* at <u>www.protegus.app</u>.



2. Log in with your user name and password or register and create a new account.

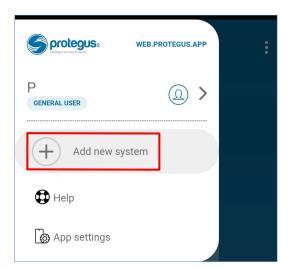
IMPORTANT: When adding the controller to **Protegus2** app:

- 1. The power supply must be turned on ("STATUS" LED must blink green);
- 2. Must be registered in to network ("NETWORK" LED must be green solid and blink yellow).



Choose "Add new system".

Gate controller GATOR WiFi



Enter the controller *"Unique ID (IMEI)"* number found on the product or on the packaging sticker. Press "Next".

K Scan QR code
Unique ID/IMEI BCFF4D479A8A
OR
Scan QR Code
Scan the QR code or fill in the text field.
Made in EU C C PRODUCT NAME
SN: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9-10V ~ AC 0,2A 10-18V DC 0,1A
View Installation Schematics
Cancel Next



Press "Start WiFi configuration WP17".

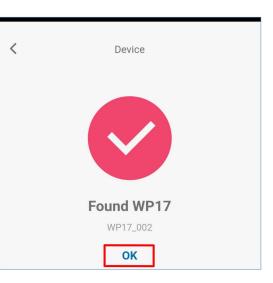
< Check device
Device is offline Unique ID/IMEI: BCFF4D479A8A
 Check if IMEI/UID is correct. Check that the POWER indicator on the device is solid green. Check NETWORK indicator.
C Retry OR
Start WiFi configuration
Start WiFi configuration
Cancel

Use a flathead screwdriver to remove the cover of the **GATOR WiFi**. Press and hold the "**PAIR**" button for 3 seconds. The "**NETWORK**" indicator will start to flash green and yellow rapidly. Release the button. The **GATOR WiFi** controller has entered registration mode with the Wi-Fi network.

K Sc	can nearby devices									
	(î.									
Scann	ing nearby WP17									
Start the pairing mode by holding the button on the device. The NETWORK indicator should flash GREEN and YELLOW.										
	Cancel									



Wait until the GATOR WiFi (WP17) controller is found. Click "OK".



Select the WiFi network to which the *GATOR WiFi* controller will be connected.

<	WiFi configuration									
Select WiFi network										
WiFi connections										
🛜 Trikdis:	2									
Cancel										

<	WiFi co	nfiguratio	n		
Selec	t WiFi network				
WiFi co	nnections				
	ViFi password		0	1	>
lu.	Close		ОК		>
	Ca	ancel			

Enter the WiFi network password. Click "**OK**".



Click "Connect".

Gate controller GATOR WiFi

	<
	Connecting to WP17
	Connect to device?
	Protegus2 will use a temporary Wi-Fi network to connect to the device. WP17_002
	Cancel Connect
	00:49 Waiting for device to come online
	\sum
	Connecting to WP17
	Cancel
xt".	
	Add new system
	Name WP17
	Background
	Time zone Europe/Vilnius ~
	Cancel Next

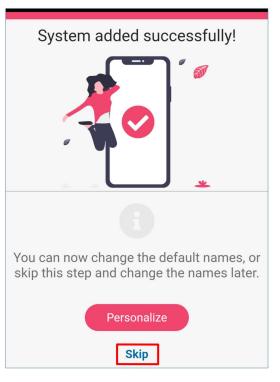
Wait until the controller connects.

Enter the system name. Press "Next".



Press "Skip".

Gate controller GATOR WiFi





E KP17 Online .ull

Wait 1 minute. The *GATOR WiFi* controller will exit the pairing mode on its own after a few minutes (or press and hold the "**PAIR**" button for 3 seconds until the "**NETWORK**" indicator stops flashing green and yellow rapidly).

Activate the PGM output by clicking on the "**Output5**" icon.

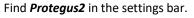


4 Adding a Widget on your phone

The gate control Widget can be placed on your phone's home screen. The controller must be registered to **Protegus2 cloud**. Log in to **Protegus2 app** on your phone. Close the **Protegus2** window.

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

1. Press "Widgets".



2. Select "Protegus2".

3. Click on "Switch Protegus2".









- 4. Select "WP17 Output5" controller output.
- 5. Click on "ADD WIDGET".

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

7. Return to the home screen. Press the icon.

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





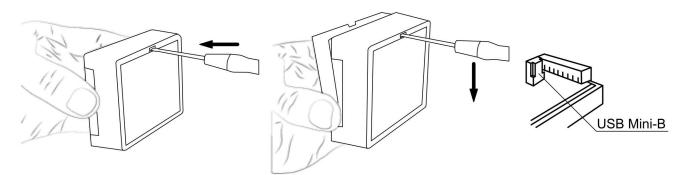
8. When the controller is connected to the automatic gate with gate state indication, the icon will show the state of the open/closed gates.



5 Setting parameters using TrikdisConfig software

With TrikdisConfig you can change the GATOR WiFi controller's settings 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 GATOR WiFi's lid as shown below:



- 3. Connect the GATOR WiFi 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 *GATOR WiFi* configuration window.
- 5. Click Read [F4] to see current GATOR WiFi parameters. If prompted, enter administrator'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 **GATOR WiFi** to the **TrikdisConfig** software, the software will show information about the connected device in the status bar.

MAC/Unique ID BCFF4D479A8A							
Status: reading done	Device: WP17_3001	SN: 000002	BL: 1.08	FW:1.21	HW:	State	USB
Name				Description			
IMEI/Unique ID	The d	evice's MAC	number				
State	Opera	ational state					
Device	Devic	e type (must	show WP17_	(XXX)			
SN	Devic	e's serial nur	nber				



Name	Description
BL	Launcher version
FW	Device's firmware version
HW	Device's hardware version
State	Type of connection with the software (with USB or remote)

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

5.2 "System options" windows

📫 TrikdisConfig 1.66.60 WP17					-	×
🔅 Program 🔗 Action	🕮 About					
System Options IN/OUT Modules IP Reporting User list Events Log	Read [F4] Write [F5] General Object ID Time set Time zone Daylight saving time	Open [F8] Sa 0001	ve [F9] Communicator netword DHCP mode Static IP: Subnet mask: Default gateway:	Disconne k settings 192.168.0.6 255.255.255.0 192.168.0.1	ect	
Firmware	DST region Administrator Code User list language Periodical Test Test Enable	Europe * 123456 Baltic *	Wifi SSID name Wifi SSID password			
Remember password Show passwords Control Con	Test period Start test at To mobile application	1 day(s) 0 h ✓ 12:00				
Status: reading done	Device: WP17_3001 SN: 000002	BL: 1.08 FW	:1.21 HV	W: 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**).
- **Time set** choose a source for setting the time.
- **Time zone** indicated, when the time synchronization NTP server is specified.
- Daylight saving time checking the box will enable automatic time change in the spring/autumn months..
- **DST region** select the region to which your country belongs.
- Administrator Code with this code it is possible to change all of the parameters of the controller.
- User list language select a language (The user list can be entered in the characters of the selected language).

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.
- To mobile application if the box is ticked, the test message will be sent to *Protegus2*.

Settings group "Communicator network settings"

• DHCP mode – WiFi controller'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.
- Wifi SSID name enter the Wi-Fi network name, to which the controller GATOR WiFi will connect.
- Wifi SSID password enter the Wi-Fi network password.

5.3 "IN/OUT" windows

"IN/OUT" tab

Program Action About Read [F4] System Options IN/OUT Modules	Write [F5] heduler Holidays settings	Open [F8]	Save [I	F9]			Discon	nect		
IN/OUT Input/Output										
IN/OUT Input/Output										
Modules	seccings									
	on Name	Type	Inactive,	Delay CM	No res	t.Pulse, s	Sched	Accian	llConfirm	CTPL by
IP Reporting 11/0 Disabl		N/A	and the second se			0		N/A		N/A
User list 2 1/0 Disabl	ed 102	N/A	0	400		0	-	N/A	N/A	N/A
Events Log 3 1/0 Disabl	ed 103	N/A	0	400		0		N/A	N/A	N/A
Firmware 41/0 Disabl	ed 104	N/A	0	400		0	-	N/A	N/A	N/A
5 OUT Output	t Output5	Pulse	0	400		3		N/A	N/A	N/A

Input / Output settings window.

Settings group "Input/Output settings"

- **Terminal** controller's input and output terminal numbers.
- Function terminal type (input, output, disabled).
- Name enter the name of the IN input or OUT output.
- **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 Protegus2.
- No rest. do not send restore event.
- Pulse 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.
- Confirm specify the number of the input, when the input is triggered, control of the output (OUT) will be enabled.
- **CTRL by IN** the selected input activates the output.

Settings group "Tag reader settings"

- Wiegand reader mode tick the box if an RFID reader (Wiegand 26/34) will be connected to the GATOR WiFi controller.
- Entry/Exit event with output tick the box and input / output events will be sent when controlling the output through *Protegus*.
- Disable reader filter tick the box if want disable internal device filter for reader that send short pulses.
- Low voltage reader tick the box if you are using low voltage readers.



"Scheduler" tab

Outputs can be controlled automatically according to a set schedule.

📫 TrikdisConfig 1.66.60 WP17																					-	-		>
🔅 Program 🛛 🎤 Action		About																						
	R	ead [F4]		Write	e (F5]			Open	[F8]		Save	e [F9]					1	Dis	conne	ct			
System Options	ſ	N/OUT So	hed	uler	Но	lidavs																		
IN/OUT						,																		
Modules	_								Start tim	e							End time							
IP Reporting	ID	Name	Enab	Lock	MAN	Output	Holiday	Hol	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	1	Schedule				Level	Disabl		00:00								00:00							
User list	2	Schedule				Level	Disabl		00:00								00:00							
Events Log	3	Schedule				Level	Disabl		00:00								00:00							
Firmware	4	Schedule				Level	Disabl		00:00								00:00							

The OUT output can be activated according to a set schedule. It is necessary to specify the time and days of the week, enable the schedule, and assign the schedule to the Output.

- Name enter the name of the schedule.
- Enable enable the time schedule for when the controller will control the output.
- Lock check the box to prevent the output from being controlled by other means when it is triggered according to the specified schedule.
- **MANUAL** check the box to prevent the scheduler from enabling the output at startup. The schedule will only start running when the output is activated by the user.
- **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.
- Hol tick the box to use holiday time when the schedule triggers on holidays.
- 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.

FrikdisConfig 1.66.60 WP17		-	o x
🔅 Program 🎤 Action	🕮 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			
User list	2 01.04.2022 15 01.04.2022 15 Start time on holidays 15:25 3 01.04.2022 15 01.04.2022 15 Start time on holidays 15:25		
Events Log	3 01.04.2022 15 01.04.2022 15 4 01.04.2022 15 01.04.2022 15		
Firmware	4 □ 01.04.2022 15 5 □ 01.04.2022 15 01.04.2022 15 01.04.2022 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

iO-LORA modules can be connected to the GATOR WiFi controller.

By connecting the *RF-LORA* transceiver, up to 8 *iO-LORA* wireless expansion modules can be connected to the *GATOR WiFi* controller. RFID readers connected to the *iO-LORA* wireless expansion modules can control up to 8 additional doors (*GATOR WiFi* gate controller operating program version 1.21 or later). One *iO-LORA* expansion module with one RFID reader controls only one door.

TrikdisConfig 1.66.60 WP17					-		
🗭 Program 🥜 Action	D Abou	t					
	Read [F4] Write [F5]	Open [F8] S	ave [F9]	Disconnect		
System Options	Mode						
IN/OUT		iles					-
Modules	ID	Module	Serial No.	Name	Firmware version		
	1	Not available		Expander ID1			
IP Reporting	2	Not available		Expander ID2			
User list	3	Not available		Expander ID3			
Events Log	4	Not available		Expander ID4		1	
-	5	Not available		Expander ID5		1	
Firmware	6	Not available		Expander ID6		1	
	7	Not available		Expander ID7		1	
	8	Not available	v	Expander ID8		1	
		Not available					
		iO-LORA controller					

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

5.5 "IP reporting" windows

📫 TrikdisConfig 1.66.60 WP17						- 🗆 X
🔅 Program 🎤 Action	🕮 About					
	Read [F4] Write	[F5]	Open [F8]	Save [F9]	Disconne	ct
System Options	Primary channel			Settings		
IN/OUT	Communication type	Disabled	-	Return to Primary after	5	min
Modules		0.0.0.0		IP Ping period	✓ 60	s
IP Reporting	Domain or IP	0		Backup reporting after	3	attempts
User list	Port Encryption Key	123456				
Events Log Firmware	Encryption key	120100				
Firmware						
	Backup channel			Cloud application		
	Communication type	Disabled	-	Enable cloud service		
	Domain or IP	0.0.00		Parallel reporting	✓	
Remember password	Port	0		Cloud Access Code	123456	
Show passwords	Encryption Key	123456				

Settings group "Primary channel"

Messages from the **GATOR WiFi** controller can be sent to the CMS. This requires setting up communication channels with the CMS receiver.

- **Communication type** choose the type of communication (TCP/IP, UDP/IP) 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.
- 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.
- **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.

Settings group "Cloud application"

- Enable cloud service enable *Protegus2* service, the *GATOR WiFi* will be able to exchange data with the *Protegus2* app and also remote configuration with *TrikdisConfig* will be possible.
- **Parallel reporting** the messages are sent simultaneously to the CMS, *Protegus*. When not enabled, messages to *Protegus2* will be sent only after being sent to CMS.
- Cloud Access Code 6-digit code for connecting with Protegus2(default code 123456).

5.6 "User list" window

"User list" tab

📫 TrikdisConfig 1.66.60 WP17					-	
🏠 Program 🖉 Action	🕮 About					
	Read [F4] Write [F5]	Open	[F8] Save [F9]	1	Disconnect	
System Options	Users Scheduler Black list					
IN/OUT		Register RFID	Character			
Modules	ID E-mail address	RFID Code Name	Clear users En Schedule	Out: 5 More Settings	1	
IP Reporting	10 E-mail address	1	uthorized	More Settings		
User list						
Events Log	11			More Settings		
Firmware	12			More Settings		
	13			More Settings		

- E-mail address specify user's e-mail address.
- RFID code enter the user's RFID card (pendant) ID number if an RFID reader is connected to the controller and the user has an RFID card (pendant).
- Name specify user's name.
- 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.
- **Outputs** mark the number of the output that will be controlled by the user.
- **Code** enter user code of RFID reader with keypad. When an RFID reader with a keypad (Wiegand 26/34) is connected to the gate controller, the user can be given a four-digit control code.
- More settings by clicking on the "More settings" button, an additional user settings window will open.



User settings (numbers from 11 to 1010)

- 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.
- **RFID code** when an RFID reader with keypad (Wiegand 26/34) is connected to the controller, the ID number of the RFID card (pendant) can be assigned to the user.
- **Keypad code** when RFID reader with keypad (Wiegand 26/34) is connected to the controller, the user can be assigned a user code.
- Assign scheduler 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.

ţ	User settings		-	×
	ID	11		
	Enabled			
	Name			
	E-mail address			
	RFID code			
	Keypad code			
	Assign schedule	•		
	Valid from	24.01.2025]	
	Valid until	25.01.2025		
	Enable counter			
	Set counter	0		
	Current counter	0		
	Can control outputs	OUT5		
		Save		

- 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.
- Can control iO-LORA outputs mark the number of the output that will be controlled by the user.

5.6.1 RFID pendant (card) registration

Connect the RFID reader to the controller (see p.2.3 " Schematic for connecting for RFID reader (Wiegand 26/34)"). Turn on the power to the controller. Connect the USB Mini-B cable to the controller. In the "IN / OUT" window of the *TrikdisConfig* program, select the "Wiegand reader mode" field.

lolidays Name	Open [F8] Type	Save	e (F9)	CMS			Discor		1	
lolidays Name				cur						
Name	Туре	Inactiv	ve Delav	cus						
	Туре	Inactiv	e Delav	CHIE						
	i)pc					Pulse, s	Sched	Accian	IIConfir	mCTRL by
IO1	N/A	0	400	V		0		N/A	N/A	N/A
102	N/A	0	400	~		0	-	N/A	N/A	N/A
103	N/A	0	400	-		0	-	N/A	N/A	N/A
104	N/A	0	400	-		0	-	N/A	N/A	N/A
Output5	Pulse	0	400	-	-	3	-	N/A	N/A	N/A
	102 103 104 Output5	IO2 N/A IO3 N/A IO4 N/A Output5 Pulse	IO2 N/A 0 IO3 N/A 0 IO4 N/A 0 Output5 Pulse 0	IO2 N/A 0 400 IO3 N/A 0 400 IO4 N/A 0 400 Output5 Pulse 0 400	IO2 N/A 0 400 ✓ IO3 N/A 0 400 ✓ IO4 N/A 0 400 ✓ Output5 Pulse 0 400 ✓	IO2 N/A 0 400 ✓ □ IO3 N/A 0 400 ✓ □ IO4 N/A 0 400 ✓ □ Output5 Pulse 0 400 ✓ ✓	IO2 N/A 0 400 Image: Constraint of the second secon	IO2 N/A 0 400 IO 0 - IO3 N/A 0 400 IO 0 - IO3 N/A 0 400 IO 0 - IO4 N/A 0 400 IO 0 - IO4 N/A 0 400 IO 0 - Output5 Pulse 0 400 II 3 -	IO2 N/A 0 400 Image: Constraint of the state	IO2 N/A 0 400 I 0 ~ N/A N/A IO3 N/A 0 400 I 0 ~ N/A N/A IO4 N/A 0 400 I 0 ~ N/A N/A

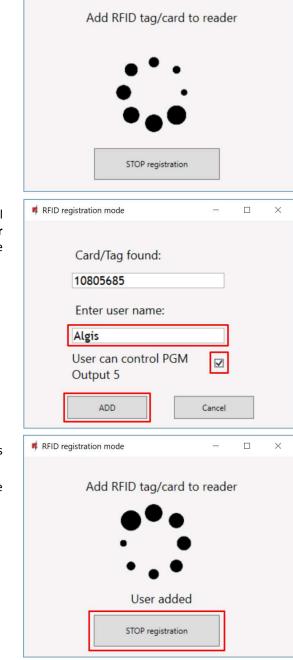
Click "Register RFID" in the "User list" window.



×

f TrikdisConfig 1.66.60 WP17											-	×
🏠 Program 🥜 Action	D AL	pout										
	Rea	d [F4] Write [F5]		Open [F8] S	ave [F9]			Disco	nnect		
System Options	Us	ers Scheduler Black list										
IN/OUT Modules		P	Register RFID	Clear user	's		Out					
IP Reporting	ID 10	E-mail address	RFID Code	Name Not authorized	En	Schedule *	5 (Code	More Settings More Settings			
User list Events Log	11 12	jonas@trikdis.lt petras@trikdis.lt	0007465412	Jonas Petras		-	_	1498 2565	More Settings More Settings			
Firmware	13								More Settings			

The RFID pendants (cards) registration window will open.



RFID registration mode

Attach the RFID pendant (card) to the RFID reader. A new window will open when the reader scans the pendant (card). In it, "Enter user name" and select the "User can control PGM Output 5". Press the "ADD" button.

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

When the registration of all RFID pendant (cards) is completed, press the "**STOP registration"** button.

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



📫 TrikdisConfig 1.66.60 WP17							_	×
🔅 Program 🔗 Action	💷 About							
	Read [F4] Write [F5]		Open [F8] Sa	ave [F9]		Disco	nnect	
System Options	Users Scheduler Black list							
IN/OUT Modules		Register RFID	Clear users	5	Outp			
IP Reporting	ID E-mail address	1	Name Not authorized	En Schedule	5 Code	More Settings More Settings		
User list Events Log	11 jonas@trikdis.lt 12 petras@trikdis.lt		Jonas Petras	V v	✓ 1498✓ 2565	More Settings More Settings		
Firmware	13	10805685	Algis	v -	~	More Settings		

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

"Scheduler" tab

📫 TrikdisConfig 1.66.60 WP17																		-		
🔅 Program 🥜 Action	E A	bout																		
	Re	ad [F4] Wi	rite [F5	5]			Open	[F8]		Save	[F9]				1	Dis	conne	ct		
System Options	U	sers Scheduler	Black	c list																
IN/OUT																				
Modules				Start time								Stop time								
IP Reporting	10	Name	Enab	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
IP Reporting	1	Name Schedule 1	Enabl	Time 00:00	Mon	Tue	Wed	Thu	Fri	Sat		Time 00:00	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
User list	1	Schedule 1		1	Mon	Tue	Wed	Thu	Fri	Sat			Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	1	Schedule 1 Schedule 2		00:00			Wed	Thu	Fri	Sat		00:00		Tue	Wed	Thu	Fri	Sat	Sun	

A schedule can be created for the user, specifying the time and days of the week when he will be able to control the output.

- Name enter a name for the schedule.
- 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 1.66.60 WP17		×
🔅 Program 🎤 Action	2 About	
	Read [F4] Write [F5] Open [F8] Save [F9] Disconnect	
System Options IN/OUT	Users Scheduler Black list	
Modules	E-mail/RFID code	
IP Reporting		
User list		
Events Log		

The "Black list" contains e-mail addresses of users, ID numbers of RFID cards who are banned from controlling the GATOR WiFi.

It is convenient to add users to the **"Black List"** directly from the **"Events Log"**. In the **"Events Log"**, right-click on the **"Name"** or ID number of the RFID card and choose **"Add to Black List"**.



5.7 "Event Log" window

TrikdisConfig 1.66.60 WP1	7						×
🔅 Program 🛛 🎤 Action	🕮 About						
	Read [F4]	Write [F5]	Op	en [F8] Save [F9]	Disconnect		
System Options	Read Lo	clear Log					
IN/OUT							
Modules	Event No.	Name / E-mail	User code	Time	Event definition		
	1499	Pulse timeout		2025-01-23 15:42:18	Output OFF. OUT 5	-	
IP Reporting	1498	Trikdis		2025-01-23 15:42:14	Output ON. OUT 5		
User list	1497	Pulse timeout		2025-01-23 14:03:42	Output OFF. OUT 5		
Events Log	1496	Trikdis		2025-01-23 14:03:38	Output ON. OUT 5		
	1495	Pulse timeout		2025-01-23 13:49:13	Output OFF. OUT 5		
Firmware	1494	Trikdis		2025-01-23 13:49:09	Output ON. OUT 5		

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

Connect **GATOR WiFi** to your computer using a USB Mini-B cable. To restore the default settings of the **GATOR WiFi** controller you need to click the "**Restore**" button in the **TrikdisConfig** program window.

Default settings Restore MAC/Unique ID BCFF4D479A8A								
Status: reading done	Device: WP17_3001	SN: 000002	BL: 1.08	FW:1.21	HW:	State	USB	

6 Setting parameters remotely

IMPORTANT: Remote configuration will only work when:

- 1. Protegus2 service is enabed. Enabling the service is described in chapter 5.5 ""IP reporting" window";
- 2. Connected to network ("**NETWORK**" LED is green solid and yellow blinking).
- 1. Download the program *TrikdisConfig* from <u>www.trikdis.com.</u>
- 2. Make sure that the controller is connected to the internet and connection to *Protegus2* is enabled.
- Launch the configuration program *TrikdisConfig* and in the field "Unique ID" of the "Remote access" section enter the "MAC" number of your controller (the MAC number is given on the stickers that can be found on the lower part of the device's case and on the packaging).

📫 TrikdisConfig	1.66.60		-	×
🔅 Program	🔑 Action	🖽 Help		
		Read [F4] Write [F5] Open [F8] Save [F9]		
		USB configuration		
		Configuration program OK		
	Remo	ote access		
	Choo	Dose module		

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



6. Set the desired settings for the controller and afterwards click **Write [F5]**. To disconnect from the controller click "Disconnect" and exit the *TrikdisConfig* program.

7 Testing of controller GATOR WiFi

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 GATOR WiFi's inputs, trigger them and make sure that the recipients get correct messages;
- 4. To test the *GATOR WiFi*'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 GATOR WiFi 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 **GATOR WiFi**'s firmware can also be updated and changed manually. All prior **GATOR WiFi** 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 **GATOR WiFi** to a computer using a USB Mini-B cable or connect to the **GATOR WiFi** 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.

📫 TrikdisConfig 1.66.60 WP17		-	×
🔅 Program 🎤 Action	D About		
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect	
System Options	Firmware		
IN/OUT			
Modules			
IP Reporting	Open firmware file		
User list		Open firmware	
Events Log			
Firmware		Start update [F12	
	0%		

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