

GSM communicator for fire alarm control panel G17F Installation manual

June, 2023



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Safety precautions

The communicator should be installed and maintained only 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 modifications, modernization 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 household waste.



Description 1

The G17F is used for transmitting fire alarm control panel messages via cellular network.

Principle of operation. When an input (zone) of the communicator is violated, the G17F will transmit an event message to the Central Monitoring Station's receiver or to the Protegus app using mobile internet. It can also send SMS messages and make phone calls. The communicator is available with 2G or 4G modems.

Features

Messages to the security company

- Sends event information to TRIKDIS software and hardware receivers, which work with any monitoring software.
- Can send events to SIA DC-09 receivers.
- If connection via the main channel is lost, the messages are automatically . sent to a backup receiver.
- Can report events to the Central Monitoring Station using SMS messages. Extremely useful because it works even when IP connectivity is disrupted in the mobile operator's network.
- Cellular network jamming recognition.
- Can simultaneously report events to the Central Monitoring Station and work with the Protegus app. It is possible to set priority for sending events to the Central Monitoring Station.
- Event messages are sent in Contact ID codes.

Messages to users

- Calls selected phone numbers (up to 8 users).
- Sends SMS messages about events.
- "Push" and special sound event notifications using the *Protegus* application.

Remote control of outputs

- Via Protegus app.
- By calling the device's phone number.
- Via SMS messages. •

Settings and installation

- Quick and easy installation.
- Device configuration either using an USB cable or remotely using *TrikdisConfig* software. •
- Remote updating of firmware. •
- Two access levels (types of accounts) for setting parameters: for the installer and for the administrator.

Inputs and outputs

- 3 inputs, selectable type: NO, NC, EOL ($10k\Omega$).
- 3 double purpose I/O terminals that can be set as input (IN) or output (OUT) terminals. Selectable input types: NO, NC, EOL (10 kΩ).
- RS485 bus for connecting *iO* series expander modules.
- Using *io* series expanders, the number of inputs (IN) or outputs (OUT) can be increased to 12.

1.1 Specifications

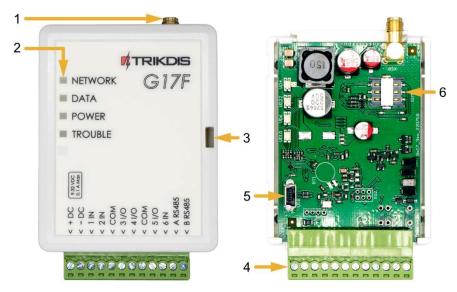
Parameter	Description					
GSM/GPRS modem frequencies	850 / 900 / 1800 / 1900 MHz					
LTE modem frequencies	700 / 800 / 900 / 1800 / 2100 / 2600 MHz					
www.trikdis.com	4	June, 2023				





Parameter	Description
Power supply voltage	9-32 V DC
Current consumption	50 mA (stand-by).
	Up to 200 mA (transmitting).
Transmission protocol	TRK, SIA DC-09_2007, SIA DC-09_2012
Encryption key	6 symbol encryption key.
Connection to CMS	TCP/IP or UDP/IP, SMS
Event codes	Contact ID codes.
Memory	Up to 60 messages.
Inputs and outputs	3 inputs, can be set as NO, NC, EOL=10 kΩ type.
	3 double purpose terminals (IN/OUT), can be set as NO, NC, EOL=10 k Ω type inputs or open collector (OC) type outputs with current up to 100 mA.
Event memory	Up to 1000 events.
Configuration	Remotely using TrikdisConfig software or locally using USB Mini-B. Remotely using SMS messages.
Operating environment	Temperature from -10 °C to +50 °C, relative air humidity – up to 80% at +20°C.
Dimensions	92 x 62 x 25 mm
Weight	80 g

1.2 Elements of the G17F communicator



- 1. SMA connector for GSM antenna.
- 2. Indicator lights.
- 3. Slot for removing top cover.
- 4. Terminals for connecting wires.
- 5. USB Mini-B connector for programming the communicator.
- 6. SIM card holder.



Terminal	Description
+DC	Power supply terminal (9 - 32 V DC positive terminal)
-DC	Power supply terminal (9 - 32 V DC negative terminal)
1 IN	1^{st} input terminal, selectable type: NO, NC, EOL=10 k Ω (default setting)
2 IN	2^{nd} input terminal, selectable type: NO, NC, EOL=10 k Ω (default setting)
СОМ	Common (negative) terminal
3 I/O	3^{rd} double purpose terminal (IN/OUT), can be set as input of selectable type NO, NC, EOL=10 k Ω (default setting) or open collector (OC) type output with current up to 100 mA
4 I/O	4^{th} double purpose terminal (IN/OUT), can be set as input of selectable type NO, NC, EOL=10 k Ω (default setting) or open collector (OC) type output with current up to 100 mA
СОМ	Common (negative) terminal
5 I/O	5^{th} double purpose terminal (IN/OUT), can be set as input of selectable type NO, NC, EOL=10 k Ω (default setting) or open collector (OC) type output with current up to 100 mA
6 IN	6 th input terminal, selectable type: NO, NC, EOL=10 kΩ (default setting)
A RS485	
B RS485	 RS485 terminals for connecting an <i>iO</i> input and output expander or other equipment

1.3 Purpose of terminals

1.4 LED indication of operation

Indicator	Light status	Description					
Network	Off	Not connected to GSM network					
	Green solid and yellow blinking	The communicator is connected to GSM network. Sufficient GSM signal strength level for GPRS is 5 (five yellow flashes) and 3 for 4G (three yellow flashes).					
Data	Green solid	Message is being sent					
	Yellow solid	There are unsent events in the data buffer					
Power	Green blinking	The power supply voltage is sufficient					
	Yellow blinking	The power supply voltage is insufficient					
	Green and yellow blinking	Configuration mode is on					
Trouble	Off	No operational 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 the IP receiver using the primary channel					
	5 blinks	Unable to connect to the IP receiver using the backup channel					
	6 blinks	Internal clock of the G17F is not set					
	8 blinks	Insufficient power supply voltage					
	9 blinks	Problems with the connection to the <i>RS485</i> module					



1.5 Components necessary for installation

Before beginning installation, make sure that you have:

- 1. A USB Mini-B type cable for configuration.
- 2. At least 4-wire cable for connecting the communicator to the fire control panel.
- 3. A flat-head 2,5 mm screwdriver.
- 4. An external GSM antenna if network coverage in the area is poor.
- 5. An activated nano-SIM card (PIN code requests can be turned off).
- 6. The manual of the fire control panel that the communicator will be connected to.

Order the necessary components separately from your local distributor.

2 Quick configuration using *TrikdisConfig* software

- 1. Download the configuration software *TrikdisConfig* from <u>www.trikdis.com</u> (type "TrikdisConfig" in the search field) and install it.
- 2. Remove the lid of the G17F using a flat-head screwdriver as shown below:



- 3. Connect the *G17F* to the computer using a USB Mini-B cable.
- 4. Launch *TrikdisConfig*. The program will automatically recognize the connected device and will automatically open the *G17F* configuration window.
- 5. Click the **Read [F4]** button to see the current parameters of the *G17F*. If a window requesting the administrator or installer code opens, enter the 6-digit code.

Below we describe the settings you need to edit to make the controller send events to the **Protegus** app or to the Central Monitoring Station.



2.1 Settings for connecting to Protegus app

In the "Users & Reporting" window, "Cloud application" settings group:

TrikdisConfig 1.66.43 G17F_320			- 0 X
🔅 Program 🔑 Action	D About		
	Read [F4] Write [F5]	Open [F8] Save [F9]	Disconnect
System Options	Users SMS answer texts		
Reporting to CMS			
Users & Reporting	Users & Reporting to User		
Modules	ID Name Tel number	PGM ACK FWD	
Zones	1 User 1 +3706012345		
PGM	2 User 2 +3706345698 3 User 3		
System events	4 User 4		
Events Log	5 User 5		
Firmware	6 User 6		
Firmware	7 User 7		
	8 User 8		
Remember password	Cloud application		
Show passwords	cloud application		
Default settings Restore	Enable cloud service	1	
	Parallel reporting		
	Cloud Access Code 123456	2	

- 1. Tick the box **Enable cloud service**.
- Change the *Protegus* Cloud access Code if you want users to be asked to enter it when they add the system in the *Protegus* app (default password – 123456).

In the "System options" window, "SIM" settings group:

TrikdisConfig 1.66.43 G17F_320	00			- 🗆 X
🛱 Program 🔗 Action	🕮 About			
	Read [F4] Write [F5]	Open [F8] Save	: [F9]	Disconnect
System Options	System general Access			
Reporting to CMS	General		SIM	
Users & Reporting	Object ID	0001	SIM card PIN	
Modules	Object name	G17F	APN	internet 4
Zones	Test period	✓ 1 day(-s) 0 h	Login	4
PGM	Time set			
System events	nine set	Cloud application -	Password	

- 3. Enter the SIM card PIN code.
- 4. Change the **APN**. You will find the **APN** on the SIM operator's website. "Internet" is universal and works in the networks of most operators.



In the "Zones" window:

Program 🌮 Action	About											
	Read [F4]	Write	e (F5)	Open [F8]	Save [F9]			1	Disconnect			
System Options	Zones se	ttings SM	S & Call reporting				5					
Reporting to CMS							Ĩ					
Users & Reporting	Zone No	Name	Input	Definition	Туре	CMS	Prot.	Deiay	CID Code	SIA E	SIA R	LOO
		7	C 4 7 5 4 10 1	24.5	NO	4	1	400	133	FA	FR	99
, ,	1	Zone 1	G17F 1 IN	24_hours	NU	1951		400	135	I'M		
, ,	1 2	Zone 1 Zone 2	G17F 2 IN	24_hours 24_hours	NO	×	 	400	133	FA	-	99
Modules	1 2 3									-	-	
Modules Zones		Zone 2	G17F 2 IN	24_hours	NO	1		400	133	FA	FR FR	99
Modules		Zone 2 Zone 3	G17F 2 IN G17F 3 I/O	24_hours 24_hours	NO NO	V	V	400 400	133 133	FA FA	FR FR	99 99

5. Tick the boxes if you want users to receive notifications to *Protegus* about changes in zone states.

In the "PGM" window:

frikdisConfig 1.66.43 G17F_32	:00							-	×
Program Action	D About								
	Read [F4]	Write [F5]	Open [F8] S	ave [F9]			Discon	nect	
System Options	Outputs	SMS & Call reporting					6		
Reporting to CMS							Č		
Users & Reporting	PGM No	PGM output	Output definition	Pulse Time, s	CMS	A Statistics Co.	SIA E	SIA R	
	1	G17F 5 I/O	Remote Control	20		-	RC	RO	
Modules	2	Disable	Remote Control	20		-	RC	RO	
Zones	3	Disable	Remote Control	20		-	RC	RO	
PGM									

6. Tick the boxes if you want users to receive notifications to *Protegus* about changes in PGM output states.

In the "System events" window:

Program 🔗 Action	E Ab	out									
	Read	d [F4] Write [F5]	1	Open [F	8]	Save [F9]				Disconn	ect
System Options	Eve	ints SMS & Call reporting			7	6					
Reporting to CMS											
Users & Reporting	ID	Event name	Enable	CMS	Prot.	CID Code	SIA E	SIAR	LOOP	SMS event text	SMS restore text
	1	Low power	~	4	-	302	TY	RL	99	Low power	Power restore
Modules	2	Periodic test	1	~	-	602	PR	PP	99	Periodic test	
	2	RS485 fault	1	~	-	333	TE	RR	99	RS485 device fault	RS485 device restore
Zones	3			Contract of	pressing .	200.00	-	1.10			10.000
Zones PGM	4	GSM jamming	v	4	-	344	QX	HG	99	GSM jamming	NO GSM jamming

7. Tick the boxes if you want users to receive notifications to *Protegus* about changes in the communicator's internal event states.

After finishing configuration, click the **Write [F5]** button and disconnect the USB cable.

Note: See chapter **5 "Description of TrikdisConfig windows"** to find more about other **G17F** settings in **TrikdisConfig**.



2.2 Settings for connecting to Central Monitoring Station

In the "System Options" window:

TrikdisConfig 1.66.43 G17F_32	00			- 0	×
😫 Program 🖉 Action	De About				
	Read [F4] Write [F5]	Open [F8] Save [F9	9]	Disconnect	
System Options	System general Access				
Reporting to CMS	General		SIM		
Users & Reporting	Object ID	0001	SIM card PIN	2	
Modules	Object name	G17F	APN	internet 3	
Zones	Test period	1 day(-s) 0 h	Login		
PGM	Time set		Password		
System events	time set	Cloud application -	Passworu		

- 1. Enter the **Object ID** (account) number provided by the Central Monitoring Station (4 characters, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).
- 2. Enter the SIM card PIN number.
- 3. Change the **APN**. You will find the **APN** on the SIM operator's website. "Internet" is universal and works in the networks of most operators.

In the "Reporting to CMS" window:

TrikdisConfig 1.66.43 G17F_320	0						- 0
🔅 Program 🔑 Action	DAbout						
	Read [F4] Write	[F5]	Open [F8]	Save [F9]		Disconnect	
System Options	Primary channel			Settings			
Reporting to CMS	Communication type	TCP/IP	- 4	Return to Primary after		5	min
Users & Reporting	Domain or IP	15.16.17.18	5	IP Ping period			s
Modules	Port	4544	6	SMS Ping period	1	10	min
Zones	Protocol	TRK	7	Backup reporting after		3	attempts
PGM	Phone number			DNS1		8.8.8.8	
System events	Encryption Key			DNS2		8.8.4.4	
Events Log	cheryption ney	L	8	Object ID in SIA DC-09		0001	
Firmware				SIA DC-09 receiver No.		1	
	Backup channel			SIA DC-09 line No.		1	
	Communication type	Disabled	-				
	Domain or IP	0.0.0		Backup channel 2			
Remember password	Port	0		Phone number	[10
Show passwords	Protocol	TRK	-				
Default settings Restore	Phone number						
	Encryption Key	*****	9				

- 4. Communication type choose a communication type (we do not recommend using SMS for the primary channel).
- 5. Domain or IP enter the receiver's domain or IP address.
- 6. **Port** enter the receiver's network port number.
- Protocol choose which transmission protocol should be used for sending messages: TRK (to TRIKDIS receivers), DC-09_2007 or DC-09_2012 (to universal receivers).
- 8. Encryption Key enter the receiver's encryption key.
- Note: If you want to set connection to the Central Monitoring Station via **SMS** messages, you only need to set the **Encryption key** and **Phone number**. SMS messages can be received by TRIKDIS central monitoring station IP/SMS receiver RL14, multi-channel receiver RM14 and SMS receiver GM14.

If you chose **DC-09** as the transmission protocol, additionally enter the object, line and receiver numbers in the **Settings** setting group of the **"Reporting to CMS"** window.



9. (Recommended) Configure the **Backup channel** settings.

10. (Recommended) Enter the Backup channel 2 phone number.

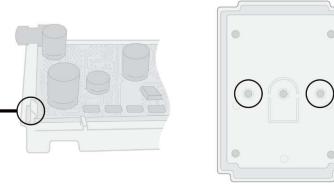
After finishing configuration, click the Write [F5] button and disconnect the USB cable.

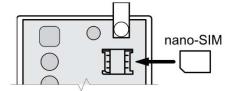
Note: See chapter 5 "Description of TrikdisConfig windows" to find more about other G17F settings in TrikdisConfig.

3 Wiring schematics, installation and turning on the system

3.1 Fastening

- Before installing the system, make sure that GSM signal strength is sufficient in the place where the *G17F* will be mounted.
- 2. Remove the top cover, pull out the contact terminal blocks.
- 3. Remove the board.
- 4. Fasten the base of the casing in the desired place using screws.
- 5. Reinsert the board and the contact terminal blocks.
- 6. Screw on the GSM antenna.
- Insert a nano-SIM card. The SIM card must be registered to a GSM network and services must be enabled and functional, i.e. the card must be able to call, send and receive SMS messages, have enabled mobile data. <u>Ask your</u> <u>SIM card's mobile network operator how to enable desired services.</u>





Note: Ensure that the SIM card is activated.

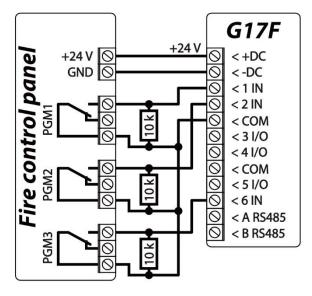
Ensure that mobile data is enabled if you are going to use connection via IP channel.

If you want to avoid entering the PIN code in *TrikdisConfig*, insert the SIM card into a phone and disable the PIN code request function.

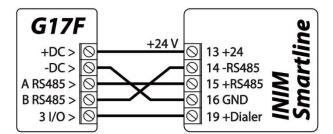
- To configure the *G17F* remotely, insert a SIM card with disabled PIN code requests. Turn on the communicator's power supply. If the *G17F* was not configured using *TrikdisConfig* and *Protegus* service was not enabled, send the SMS message: CONNECT 123456 PROTEGUS=ON,APN=INTERNET
- 9. Changing parameters remotely is detailed in chapter 6 "Setting parameters remotely".
- 10. Reattach the top cover.



3.2 Schematic for connecting the communicator to a fire control panel



3.3 Schematic for connecting the communicator to an INIM Smartline fire control panel



Slave mode must be set for the INIM Smartline panel when it is connected to the G17F communicator via RS485 bus.

iùm SmartLeague		\sim		×			
File Programming Settings Database Check	control panel ?						
🜍 Start Page 🖥 SmartLine 2.00 - hggh	4			Ŧ			
SmartLine Control Panel	System Layout Programming						
- Power Supply	1 1 1 1						
RS485 BUS	Master/Slave Settings						
- 📅 Holidays							
- 🚫 Timer	Configure as Master						
-√∑ Equations	Configure as Slave						
E Zones	Assign address 1	÷					

Note:You cannot connect the G17F using the RS485 bus if repeaters are connected to the INIM Smartline panel.iO expansion modules are not supported when the G17F is connected to the INIM Smartline panel via RS485 bus.



3.4 TrikdisConfig settings when an INIM Smartline fire control panel is connected

In the "Modules" window:

TrikdisConfig 1.66.43 G17F_3	200					
Program 🌮 Action	D About					
	Read [F4]] Write [F5]	Open [F8] Sa	ve [F9]	Disconnect	
System Options	DC 495 -	nodules				
	K5403 I					
Reporting to CMS						
	RS485	modules		_		
	RS485	Module	Serial No.	Name	Firmware version	
Reporting to CMS Users & Reporting Modules		line in the	Serial No.	Name Expander ID1	Firmware version	

1. Choose the Inim Smartline module.

In the "PGM" window:

TrikdisConfig 1.66.43 G17F_32	200				2	- [
Program Action	About						
	Read [F4] Write [F	F5] Open [F8]	Save [F9]	1	Disconnect	1	
System Options	Outputs SMS & Call re	eporting					
Reporting to CMS							
Users & Reporting	PGM No PGM output	Output def	nition Pulse Time, s	CMS Prot	SIA E SIA R		
	1 G17F 3 I/O	Inim diale	20		RC RO	2	
Modules	2 Disable	Remote C	ontrol 20		RC RO	_	
Zones	3 Disable	Remote C	ontrol 20		RC RO		
PGM			•				

 Specify the *G17F* communicator's PGM output that is connected to the fire control panel's 19th (+Dialer) terminal. Set Output definition – Inim dialer. (The PGM output is turned on when the *G17F* communicator has problems connecting to the CMS or is unable to send messages. The indicator **Disable/Fault Dialler** lights up on the fire control panel and a sound signal is turned on.).

In the "Users & Reporting" window:

TrikdisConfig 1.66.43 G17F_32	TrikdisConfig 1.66.43 G17F_3200								
Program Action	About								
	Read [F4] Write [I	F5] Open	[F8] Save [F9]	Disconnect					
System Options Reporting to CMS Users & Reporting	Users SMS answer tex Users & Reporting to Us	ts SMS for INIM panel				1			
Modules	ID Name	Tel number	PGM ACK FWD						
Zones	1 User 1 2 User 2	+3706012345 +3706345698							
PGM	3 User 3								
System events	4 User 4								

3. Enter phone numbers of users who should get messages from the *G17F* communicator.



In the "SMS for Control panel" tab

Program 🌮 Action	💷 Ab	out									
	Rea	d [F4]	Write [F5]		Open	[F8]	T	Sav	ve [F9] Discon	nect	
System Options		are SMS	answer texts SMS for IN	IIM nanel							
Reporting to CMS					-	_					_
Users & Reporting	i			User 1		User 2					
Modules	Zn	CID	SMS text	SMS	-	SMS	_				
Modules	1	E110	Fire alarm	~	-	~	~	-			
Zones	2	E118	Fire pre-alarm state						4		
PGM	3	E380	Detector fault	~		-			-		
System events	4	E323	Line fault	-		•					
	5	E301	AC loss	\checkmark		\checkmark					
Events Log	6	E302	Low battery	\checkmark				=			
Firmware	7	E311	Missing battery	-		~					
	8	E305	Panel reset	-							
	9	E372	Zone short	-							
	10	E371	Zone open	-							
	11	E574	Zone disabled	-				П			
Remember password	12	R574	Zone enabled	-							
Show passwords	13	E604	Test	~		-		1			
Default settings Restore	14	E000									
	15	E000									

4. Users will get SMS messages and phone calls about events that are ticked. You can add additional CID event codes in the CID column. You must enter SMS text messages next to new codes. If you want the user to receive messages (or calls) about events, tick the SMS (or Call) box.

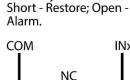
3.5 Schematics for connecting inputs

The communicator has six (1IN – 6IN) input terminals (three terminals are dual purpose IN/OUT) for connecting NO, NC, EOL type circuits. Default input setting – monitor an EOL type circuit. You can set a different input type in the *TrikdisConfig* window Zones.

Schematics of NO, NC, EOL type circuits:

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

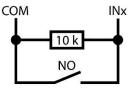




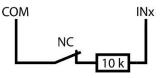
Normally closed (NC).



Normally open with 10k End of line resistor (EOL10k). Short - Alarm; Open - Alarm; 10k -Restore.



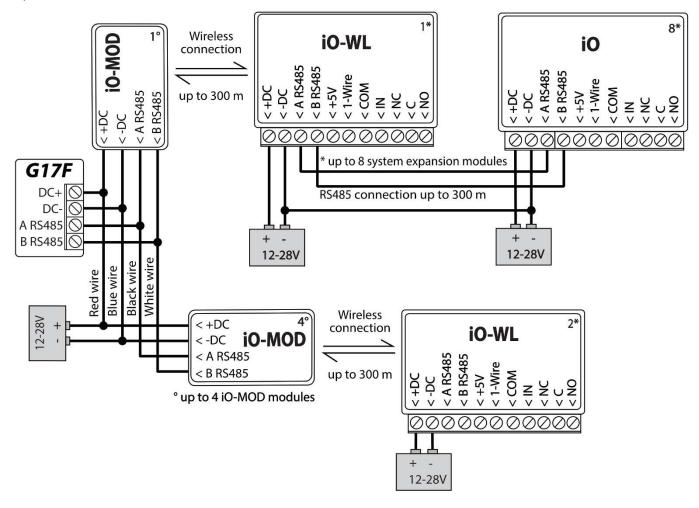
Normally closed with 10k End of line resistor (EOL10k). Short - Alarm; Open - Alarm; 10k - Restore.



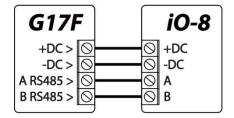


3.6 Schematic for connecting iO series expander modules

If the communicator needs more inputs IN or outputs OUT, connect a wired or wireless TRIKDIS *iO* series input and output expander.



3.7 Schematic for connecting an iO-8 expander module





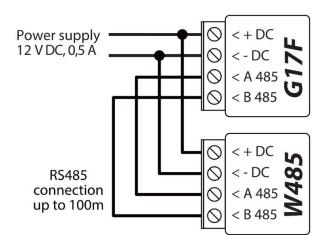
3.8 Schematic for connecting the W485 WiFi module

G17F firmware version from 1.08.

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 **G17F** sends event messages via the **W485** module. When WiFi connectivity is disrupted, the **G17F** sends messages via GPRS. When WiFi connectivity is re-established, the **G17F** returns to sending messages via **W485**.

Configuration of the **W485** WiFi module to work with the **G17F** is described in chapter 5.5. ""Modules" window".

You do not need a SIM card, when using the W485 with the G17F.



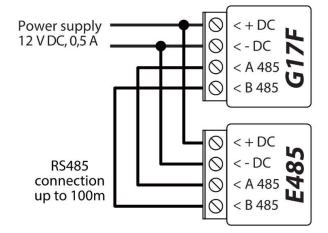
3.9 Schematic for connecting the E485 "Ethernet" module

G17F firmware version from 1.08.

The *E485* sends messages to the CMS (Central Monitoring Station) and to *Protegus* using a wired internet connection. Using the *E485* with *G17F*, CMS and *Protegus* messages are sent over wired Internet and mobile Internet is not used. If a wired internet connectivity is disrupted, the *G17F* sends messages via the mobile Internet. When the wired Internet connectivity is re-established, *G17F* starts sending messages via *E485*.

Configuration of the *E485* module to work with the *G17F* is described in chapter 5.5. ""Modules" window".

You do not need a SIM card, when using the E485 with the G17F.



3.10 Turning on the communicator

To turn on the communicator, you must first provide a power source for the fire control panel. If the communicator is working properly, the following *G17F* indicator lights should turn on:

- The "POWER" diode must be green solid (sufficient power supply voltage);
- The "NETWORK" diode must be green solid and blink yellow when the communicator is connected to a network.

Not	Sufficient GSM signal level - 5 (five yellow flashes of the "NETWORK" indicator). Sufficient 4G signal le (three yellow flashes of the "NETWORK" indicator).	evel - 3
	If you count less than 3 yellow flashes of the "NETWORK" diode, the GSM signal level is insufficien recommend choosing a different place for installing the communicator or using a more sensitive GSM an	
	If the indication is different, search for the explanation in chapter 1.4 "LED indication of operation".	
	If the G17F's indicator lights are completely inactive, check the power supply and connections.	



4 Remote control

4.1 Adding the communicator to *Protegus* app

Using *Protegus,* users can see the system's state and receive notifications about system events.

1. Download and launch the *Protegus* app or use the browser version <u>www.protegus.eu/login</u>:

		GET IT ON Google Play	Get it on iTunes	S protegus web			
2. Cr	2. Create a new account or log in with your user name and password.						
MPORTANT: When adding the system to <i>Protegus</i> the <i>G17F</i> communicator must:							

- 1. Have an inserted and activated SIM card with the PIN code entered or disabled;
- 2. Have Protegus service enabled. See 5.4 "Users & Reporting" window;
- 3. Have the power switched on ("POWER" LED must be green solid);
- 4. Be connected to a network (the "NETWORK" LED must be green solid and blink yellow).
- 3. Click **Add new system** and enter the **G17F**'s "Unique ID" number. It can be found on the device and packaging sticker. After entering the unique ID, click the **Next** button.

Add new system	(3)
Unique ID	Enter the IMEI code. You can find it here: - on the package; - on the back of the controller housing; - TrikdisConfig as a Unique ID.

4.2 Configuration and control via SMS messages

1. Change the administrator password

To ensure safety, change the default administrator SMS password. Send an SMS message of the following format:

PSW 123456 xxxxxx

123456Default administrator passwordxxxxxxNew 6-symbol administrator password

2. Allow other users to control

Only phone numbers on the user list can control the system using SMS messages or phone calls. From an administrator phone, send SMS messages with other people's phone numbers and names to allow them to control the system:

SETN xxxxxx PHONEx=+PHONENR#NAME

XXXXXX	6-symbol administrator password
X	User's number on the list. (If you write 1 as the user number, you will transfer your administrator's rights to the other user.)
PHONENR	User's phone number
NAME	User's name



SMS command list

Command	Data	Description
INFO		Request information about the communicator. Communicator type, IMEI number, serial number and firmware version will be included in the answer. E.g.: <i>INFO</i> 123456
RESET		Reset the device. E.g.: RESET 123456
OUTPUTx	ON	Turn on an output, "x" is the output number. E.g.: OUTPUT1 123456 ON
	OFF	Turn off an output, "x" is the output number. E.g.: OUTPUT1 123456 OFF
	PULSE=ttt	Turn on an output for a few seconds - "x" is the OUT output number, and "ttt" is a three-digit number that specifies pulse time in seconds. E.g.: OUTPUT1 123456 PULSE=002
PSW	New password	Change password. E.g.: PSW 123456 654123
TIME	YYYY/MM/DD,12:00:00	Set date and time. E.g.: TIME 123456 2019/01/09,12:23:00
ΤΧΤΑ	Object name	Specify an object name. E.g.: TXTA 123456 House
ΤΧΤΕ	Z1= <text> Z12=<text></text></text>	Customize zone alarm SMS message text: Z1Z12 – input zone number. E.g.: TXTE 123456 Z1=ALARM in Zone1
TXTR	Z1= <text> Z12=<text></text></text>	Customize zone restore SMS message text: Z1Z12 – input zone number. E.g.: TXTR 123456 Z1=Restore Zone1
RDR	PhoneNR#SMStext	Forward SMS messages to the specified number. The phone number must start with a "+" sign and the international country code. E.g.: RDR 123456 +37061234567#forwarded text
ASKI		Request SMS message about statuses of inputs IN. E.g.: ASKI 123456
ASKO		Request SMS message about statuses of outputs OUT. E.g.: ASKO 123456
SETN	PhoneX=PhoneNR#Name	Add a phone number, username and assign it to user "x". "x" is the phone number's line on the list. The phone number must start with a "+" symbol and international country code. The phone number and username must be separated by a # symbol. E.g.: SETN 123456 PHONE5=+37061234567#JOHN
	PhoneX=DEL	Delete user's phone number and name from the system. E.g.: SETN 123456 PHONE5=DEL
UUSD	*Uusd code#	Send a UUSD code to the operator. E.g.: UUSD 123456 *245#
CONNECT	Protegus=ON	Connect to Protegus cloud service. E.g.: CONNECT 123456 PROTEGUS=ON
	Protegus=OFF	Disconnect from Protegus cloud service. E.g.: CONNECT 123456 PROTEGUS=OFF
	Code=123456	Protegus cloud service code. E.g.: CONNECT 123456 CODE=123456
	IP=0.0.0.0:8000	Specify the main server's connection channel's TCP IP and Port. E.g.: CONNECT 123456 IP=0.0.0.0:8000
	IP=0	For turning off the main channel. E.g.: CONNECT 123456 IP=0
	ENC=123456	TRK encryption key. E.g.: CONNECT 123456 ENC=123456
	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

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4.3 Control PGM outputs using phone calls

No	ote:	If no users have been added to the system, the first one to call the G17F will become the system administrator and will be the only one who can control the G17F using phone calls and SMS commands.
		If you want to allow additional users to control the system using phone calls, add them with <i>TrikdisConfig</i> or give them the rights using SMS commands.

Perform these actions if you want to control a PGM output remotely:

- The user must be allowed to control outputs OUT and the output OUT must have type "Remote control" assigned (using *TrikdisConfig*).
- Call the number of the *G17F*'s SIM card. The *G17F* will answer the call and you can dial commands using the phone's keypad (see the table).

Mobile phone keyboard command list

Keyboard buttons	Function	Description
[output no]*[state no]# Control selected		Controls the specified PGM output.
	output OUT	State:
		[0] – output turned off;
		[1] – output turned on;
		[2] – turned off for pulse time;
		[3] – turned on for pulse time;
		(pulse time is specified in the <i>TrikdisConfig</i> software, "PGM" table)
		[*] – this symbol shows the end of the command.
		E.g. (turn on output 1): 1*1#
		E.g. (turn off output 1): 1*0#
		E.g. (turn on output 2 for Pulse time specified in the TrikdisConfig "PGM" table): 2*3#
#	Retry entering the command	If you made a mistake while entering the command, press # on the phone's keyboard and enter the command again.

5 Description of *TrikdisConfig* windows

5.1 Description of TrikdisConfig status bar

Once the *G17F* is connected, *TrikdisConfig* will display information about the connected device in its status bar.

IMEI/Unique ID: 862261044865843	
Status: Ready	Device: G17F_3200 SN: 000002 BL: 2.03 FW:1.12 HW: State USB Role: Administrator
Name	Description
IMEI/Unique ID	Device's IMEI number
Status	Operational state
Device	Device type (must show G17F)
SN	Device's serial number
BL	Bootloader version
FW	Device's firmware version
HW	Device's hardware version

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Name	Description
State	Type of connection with the program (USB or remote)
Role	Access level (shown after access code is approved)

When the **Read [F4]** button is clicked, the program will read and show settings currently saved on the **G17F**. With **TrikdisConfig**, set the required parameters using the following program window descriptions.

5.2 "System Options" window

"System general" tab

🕫 TrikdisConfig 1.66.43 G17F_320	00				×
🔅 Program 🔗 Action	About				
System Options Reporting to CMS	Read [F4] Write [F5] System general Access General	Open [F8] Save	= [F9] SIM	Disconnect	
Users & Reporting Modules Zones PGM System events Events Log Firmware	Object ID Object name Test period Time set Clear Events after reset Text language Suspend event reporting when 2 Restore event reporting after Low power voltage	0001 G17F 1 day(-s) 0 h Cloud application • Same events per 10 s 1 min 24 volts •	SIM card PIN APN Login Password	••••	

"General" settings group

- Object ID if events are going to be sent to the CMS, enter the Object ID (4-symbol hexadecimal number, 0-9, A-F. Do not use FFFE, FFFF Object ID) given by the CMS.
- **Object name** the name given to the object that will be used in SMS messages sent to the user.
- Test period when the box is ticked, "Test" messages will be sent every set period.
- **Time set** choose a server to synchronize time with. If you choose "*IP server*", time will be synchronized with the IP receiver's time, if you choose "*GSM modem*", time will be synchronized with the GSM service provider's server time.
- Clear Events after reset all unsent event messages will be deleted upon reset.
- **Text language** set the preferred language and the specific symbols of that language will be used in SMS messages.
- You can **Suspend event reporting when** ... a number of **same events per** ... **s** happen.
- **Restore event reporting after ...** set the time after which suspending of event reporting will be cancelled. The time can be anywhere from 0 to 999 minutes.
- Low power voltage specify the power supply voltage (12 V or 24 V) that will be used for forming messages about insufficient power supply voltage.

"SIM" settings group

- Enter the **SIM card PIN** code.
- **APN** network service provider's mobile internet access point name. You must enter the APN if event messages will have to be sent to **Protegus** app or to the CMS via GPRS.
- If required by the GPRS network service provider, enter the APN user name and password in the fields Login and Password.



"Access" tab

TrikdisConfig 1.66.43 G17F_3	About				
	Read [F4] Write [F5]	Ope	n [F8] Save [F9]	Disconnect	
System Options Reporting to CMS	System general Access		Installer permissions		
Users & Reporting Modules	Administrator Code	123456	Object ID		
Zones PGM	SMS password	123456	SIM card		
System events Events Log		00021	Area Settings Menu 'Users & Reporting'	Editable *	
Firmware			Menu 'Modules' Menu 'Zones'	Editable -	
			Menu 'PGM'	Editable *	
Remember password Show passwords			Menu 'Reporting to CMS' Menu 'System events'	Editable *	
Default settings Restore			mena oystem events	Editable *	

Settings group "Access codes"

- Administrator Code gives full access to configuration functions (default code 123456).
- SMS password password for remote control and programming via SMS messages (default code 123456).
- Installer Code gives limited access to changing the communicator's configuration (default code 654321).

Settings group "Installer permissions"

The administrator can set which parameters can be changed by the installer.

5.3 "Reporting to CMS" window

Program 🎤 Action	About						
	Read [F4] Write	[F5]	Open [F8]	Save [F9]		Disconnect	
System Options	Primary channel			Settings			
Reporting to CMS Users & Reporting Modules Zones PGM System events Events Log	Communication type Domain or IP Port Protocol Phone number Encryption Key	Disabled		Return to Primary after IP Ping period SMS Ping period Backup reporting after DNS1 DNS2 Object ID in SIA DC-09	2	5 60 10 3 8.8.8.8 8.8.4.4 0001	min s min attempts
Firmware	Backup channel Communication type	Disabled		SIA DC-09 receiver No. SIA DC-09 line No.		1	
Remember password Show passwords Default settings Restore	Domain or IP Port Protocol Phone number Encryption Key	0.0.0.0		Backup channel 2 Phone number			
IMEI/Unique ID: 862261044865843							

The communicator sends messages to the Central Monitoring Station using internet (IP) or SMS messages.



You can assign a backup channel to the primary channel. It will be used when connection via the primary channel is lost.

Messages sent to the Central Monitoring Station are encoded and password protected. To receive messages and forward them to monitoring software, a TRIKDIS receiver is required:

- For IP messages receiving program IPcom Windows/Linux, hardware IP/SMS receiver RL14 or multi-channel receiver RM14.
- For SMS messages hardware IP/SMS receiver RL14, multi-channel receiver RM14 or SMS receiver GM14.

Connection via SMS messages is extremely useful for the backup channel, because it works even when internet connectivity in the operator's network is disrupted. Using SMS as the primary channel is not recommended.

Settings group "Primary channel"

- Communication type choose a method for connecting to the Central Monitoring Station's receiver.
- Domain or IP enter the receiver's domain or IP address.
- **Port** enter the receiver's network port number.
- Protocol TRIKDIS IP receivers can receive messages sent in the TRK protocol, and SIA DC-09 protocols are used for IP receivers capable of receiving event messages sent in SIA DC-09 protocols.
- **Phone number** (only for SMS messages) enter the phone number of a TRIKDIS SMS receiver. The phone number must start with the country code (e.g.: 370xxxxxxx).
- Encryption Key 6-digit message encryption key. The communicator's encryption key must match the receiver's encryption key.

Settings group "Backup channel"

Enable backup channel mode to allow messages to be sent using the backup channel if the connectivity is disrupted. Configure the backup channel using the same settings as described above.

Settings group "Settings"

- **Return to Primary after** time period after which the *G17F* will attempt to regain connection with the Primary channel.
- IP PING period sending period of internal PING signals for checking connectivity. These messages are sent only via IP channel. The receiver does not forward these signals to the monitoring software and thus does not overload the software. The monitoring software is only notified when the receiver does not receive a PING message from the device for a preset period of time.

By default, the receiver will send a "Connection lost" message to the monitoring software after a time period that is three times longer than the communicator's PING sending period. E.g. if the IP PING period is 3 minutes, the receiver will send a lost connection message if it does not receive a PING for 9 minutes.

PING messages also keep an active connection session between the device and the receiver. An active session is required to configure and control the communicator remotely. We recommend setting the PING period to be no longer than 5 minutes.

- **SMS Ping reporting** period of sending a PING signal over the channel for sending SMS messages, min.. Check the box to enable communication channel and specify the time interval.
- **Backup reporting after** specify the number of unsuccessful attempts to send a message using the **Primary channel**. If the message fails to send after the specified number of attempts, the device will transmit using the **Backup channel**.
- **DNS1, DNS2** (Domain Name System) server that specifies the domain IP address. It is used when a domain is specified in the connectivity channel's **Domain or IP** field (instead of an IP address). Default setting Google DNS server addresses.

The following settings are only shown when **DC-09_2007** or **DC-09_2012** protocol is chosen in the connectivity channel's **Protocol** field.

- **Object ID in SIA DC-09** <u>enter the object number. If you chose the DC-09 protocol, the object number entered in this</u> <u>field will be used</u>. You can enter the 3-16 symbol hexadecimal number given by the central monitoring station.
- **SIA DC-09 receiver No.** enter the receiver's number.
- SIA DC-09 line No. enter the line number in the receiver.

Settings group "Backup channel 2"

• **Phone number** - (only for SMS messages) enter the phone number of a TRIKDIS SMS receiver. The phone number must start with the country code (e.g.: 370xxxxxxx).



5.4 "Users & Reporting" window

"Users" tab

rikdisConfig 1.66.43 G17F_3200				-	×
🖨 Program 🎤 Action 💷 A	lbout				
System Options	ead [F4] Write Isers SMS answer to Isers & Reporting to I	User		Disconnect	
Modules	ID Name	Tel number	PGM ACK FWD		
Zones	1 User 1 2 User 2	+3706012345 +3706345698			
PGM	3 User 3	+3700343070			
System events	4 User 4				
Events Log	5 User 5				
Firmware	6 User 6				
Filliwale	7 User 7				
	8 User 8				
Show passwords Default settings Restore	loud application Enable cloud servic Parallel reporting Cloud Access Code				
IMEI/Unique ID: 862261044865843					

Settings group "Users & Reporting to User"

- ID user's number on the list.
- Name user's name. These names will be used in event SMS messages.
- **Tel number** the user's phone number that will receive SMS messages. Numbers must be entered with the international code.
- **PGM** if the box is ticked, the user can remotely control outputs.
- ACK if the box is ticked, the G17F will send SMS messages with SMS answer text to the user after every received SMS command.
- **FWD** if the box is ticked, SMS messages received from non-system users will be forwarded to the user (e.g. SIM card account balance, random promotional messages, etc.).

Settings group "Cloud application"

- Enable cloud service enable *Protegus* service to allow the *G17F* to exchange data with the *Protegus* app and remotely configure the device using *TrikdisConfig*.
- Parallel reporting enable parallel message sending via the Primary channel and to Protegus.
- Cloud access code 6-digit code for logging in to Protegus (default code 123456).



"SMS answer texts" tab

TrikdisConfig 1.66.43 G17F_32					×
🗘 Program 🛛 🎤 Action	About				
	Read [F4] Write	[F5]	Open [F8] Save [F9]	Disconnect	
System Options	Users SMS answer t	exts			
Reporting to CMS	SMS answer texts				
Users & Reporting	SWD answer texts				
Modules	Answer	SMS text			
	Command done	Command done			
Zones	Wrong password	Wrong password			
PGM	Wrong data	Wrong data		1	
System events	Wrong command	Wrong command			
Events Log					

Settings group "SMS answer texts"

• Edit the answer texts to control commands sent via SMS messages in the column SMS text.

"SMS for INIM panel" tab

Program 🧬 Action	D Ab	out									
	Rea	d [F4]	Write [F5]		Oper	[F8]	T	Sav	ave [F9] Disconnect	t	
System Options	llee	SMS	answer texts SMS for IN								
Reporting to CMS	Use	13 DIVIS	answer texts anis for in	nin panei	-						_
Users & Reporting				User 1		User 2					
	Zn	CID	SMS text	SMS	Call	SMS	Call				
Modules	1	E110	Fire alarm	-	-	-	~	-	4		
Zones	2	E118	Fire pre-alarm state								
PGM	3	E380	Detector fault	\checkmark		-					
System events	4	E323	Line fault	\checkmark							
	5	E301	AC loss	\checkmark		-					
Events Log	6	E302	Low battery					\equiv	1		
Firmware	7	E311	Missing battery	\checkmark		~					
	8	E305	Panel reset	-							
	9	E372	Zone short	\checkmark							
	10	E371	Zone open	-							
	11	E574	Zone disabled	-					1		
Remember password	12	R574	Zone enabled	-							
Show passwords	13	E604	Test	-		1					
Default settings Restore	14	E000									
and the second se	15	E000									

- **Zn** event's number on the list.
- **CID** event's Contact ID code.
- **SMS text** event's SMS message text.
- User SMS/Call- choose how to inform users about every event SMS message and/or call.



5.5 "Modules" window

🗘 Program 🛛 🔑 Action	About					
	Read [F4]] Write [F5]	Open [F8] Sa	ave [F9]	Disconnect	
System Options	RS485 n	nodules				
Reporting to CMS		modules				
Users & Reporting	ID	Module	Serial No.	Name	Firmware version	
Modules	1	Not available	v	Expander ID1	rinnware version	
Zones	2	Not available		Expander ID2		
PGM	3	iO expander		Expander ID3		
	4	iO-WL radio expander		Expander ID4		
System events	5	iO-8 expander		Expander ID5		
Events Log	6	Inim Smartline		Expander ID6		
Firmware	7	E485 communicator		Expander ID7		
	8	W485 (W17u) module		Expander ID8		

Settings group "RS485 modules"

- **ID** module's number on the list.
- Module choose the module being used (modules *iO*, *iO-WL*, *iO-8*, *Inim Smartline*, *E485*, *W485*) from the module list.
- Serial No. mandatory 6-digit number that can be found on the module's casing and its packaging.
- Name you can give the module a name.
- Firmware version the firmware version will be shown when the G17F finds the connected module.

"W485 settings" tab

WiFi module W485 (W17u) settings window

📫 TrikdisConfig 1.66.43 G17F_3.	200					>
🔂 Program 🛛 🎤 Action	About					
System Options Reporting to CMS Users & Reporting	Read [F4] Write [F5] RS485 modules W485 se Communicator network s	ttings		Disconne	ect	
Modules Zones PGM System events Events Log	DHCP mode Static IP: Subnet mask: Default gateway:	19.16.1.40 255.255.255.0 19.16.1.254	card Use inte	able indication of the absence of a SIM d d dial and SMS when working over rnet module able the use of SIM card mobile data	<!--</td--><td></td>	
Firmware Remember password	Wifi SSID name Wifi SSID password	TRIKDIS 56SdS65				

"Communicator network settings" 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 (W17u) will connect to.
- Wifi SSID password WiFi network password.



"SIM parameters" 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 *G17F* controller.
- Use dial and SMS when working over internet module checking the box will enable control of the communicator via call and SMS. If the field is not checked and there is a Wi-Fi network, then the call and SMS messages are not used. If the field is unchecked and there is no Wi-Fi network, then G17F can manage call and SMS messages. G17F will send SMS messages to the user.
- Disable the use of SIM card mobile data checking the box will disable the use of mobile data from the SIM card. Data will only be sent via module *W485*. If the Wi-Fi network is disconnected, *G17F* will store data in memory. After restoring the Wi-Fi network, the *G17F* will send the saved data via the Wi-Fi *W485* module.

"E485 settings" tab

"Ethernet" module E485 settings windows

📫 TrikdisConfig 1.66.43 G17F_	3200						×
😫 Program 🖉 Action	About						
	Read [F4] Write [F5	1	Open [F8]	Save [F9]	Disconnec	t	
System Options	RS485 modules E485 se	ttings					
Reporting to CMS							
Users & Reporting	Communicator network	settings		SIM parameters			
Modules	DHCP mode			Disable indicati	on of the absence of a SIM		
Zones	Static IP:	19.16.1.40		Use dial and SM	1S when working over	~	
PGM	Subnet mask:	255.255.255.0		internet modul			
System events	Default gateway:	19.16.1.254		Disable the use	of SIM card mobile data		
Events Log							

"Communicator network settings" settings group

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

"SIM parameters" 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 *G17F* controller.
- Use dial and SMS when working over internet module checking the box will enable control of the communicator 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 *G17F* can manage call and SMS messages. *G17F* 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, *G17F* will store data in memory. When the Internet is restored, the *G17F* will send the saved data via the "Ethernet" *E485* module.



5.6 "Zones" window

"Zones settings" tab

Program Action	About											
	Read [F4]	Write	e [F5]	Open [F8]	Save [F9]				Disconnect			
System Options	Zones se	ettings SM	S & Call reporting									
Reporting to CMS												
Users & Reporting	Zone No	Name	Input	Definition	Туре	CM5	Prot.	Delay	CID Code	SIA E	SIA R	LOO
users or neporting		7	CATE A INC	24.4	NO	~	1	400	133	FA	FR	99
		Zone 1	G17F 1 IN	24_hours	NO	1M.	~	400	155	I'M	115	
Modules	2	Zone 1 Zone 2	G17F 2 IN	24_hours 24_hours	NO	~	V	400	133	FA	FR	99
	2									-	-	
Modules Zones PGM		Zone 2	G17F 2 IN	24_hours	NO	1	•	400	133	FA	FR	99
	3	Zone 2 Zone 3	G17F 2 IN G17F 3 I/O	24_hours 24_hours	NO NO	2		400 400	133 133	FA FA	FR FR	99 99

- Zone No zone's number on the list.
- Name the zone can be given a name that will be used in SMS messages.
- Input choose which G17F or expansion module input IN to assign to a zone.
- **Definition** all zones are assigned the **24 hours** definition. If this zone is violated, a message about the event is sent immediately.
- Type choose the type of circuit connected to the zone input IN from a list: NC normally closed contact, NO normally open contact, EOL with a 10 kΩ resistor at the end of the circuit.
- CMS if the box is ticked, messages about zone events will be sent to the CMS (central monitoring station).
- Prot. if the box is ticked, notifications about zone events will be sent to Protegus app.
- **Delay** IN input zone reaction time in milliseconds.
- CID Code event's Contact ID code.
- SIA E SIA Event code.
- **SIA R** SIA Restore code.
- LOOP the loop number is indicated in the SMS message.

"SMS & Call reporting" tab

🗘 Program 🥜 Action	About									
	Read [F4]	Write [F5]	1	Ope	en [F8]	T	Save [F9]	Disconnect		
System Options	Zones setti	ngs SMS & Call reporting								
Reporting to CMS							-		 	ľ
Users & Reporting]	1	User 1	-	User 2	-				
Modules	Zn	SMS text Check/uncheck all rows:	SMS	Call	SMS	Call				
Zones	1 Event	Zone 1 Alarm		-		~				
PGM	1 Restore	Zone 1 Restore	1		1		1 .			
System events	2 Event	Zone 2 Alarm	-	•	1]			
,	2 Restore	Zone 2 Restore	-		-					
Events Log	3 Event	Zone 3 Alarm	-		-					
Firmware	3 Restore	Zone 3 Restore	-				1			
	4 Event	Zone 4 Alarm	-		-					
	4 Restore	Zone 4 Restore	~		1					
	6 Event	Zone 6 Alarm	-		1					
Remember password	6 Restore	Zone 6 Restore	~		~		1			

This window will only be shown if there is at least one User added in the "Users & Reporting" window.

- **Zn** zone number with an event identification word. Can be "*Event*" or "*Restore*".
- SMS text description of the zone event that will be included in SMS event messages sent to users.
- User SMS/Call choose how to inform users about every zone event via SMS message and/or call.

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5.7 "PGM" window

"Outputs" tab

TrikdisConfig 1.66.43 G17F_32	200							1. 	
🗘 Program 🖉 Action	D About								
	Read [F4]	Write [F5]	Open [F8] S	ave [F9]			Discon	inect	
System Options	Outputs	SMS & Call reporting							
Reporting to CMS									
Users & Reporting	PGM No	PGM output	Output definition	Pulse Time, s	CMS	Prot.	SIA E	SIA R	
	1	G17F 5 I/O	Remote Control	20		~	RC	RO	
Modules	2	Disable	Remote Control	20		-	RC	RO	
Zones	3	Disable	Remote Control	20		-	RC	RO	
PGM		4		,					

- **PGM No** PGM output's number on the list.
- **PGM output** assign outputs OUT of the **G17F** or of an external device to a PGM.
- **Output definition** select operational mode of an output OUT.
- Pulse time, s assign a desired OUT turn on duration from 0 to 9999 seconds.
- CMS if the box is ticked, messages about chosen events will be sent to CMS.
- Prot. if the box is ticked, output event notifications will be sent to Protegus app.
- SIA E SIA Event code.
- **SIA R** SIA Restore code.

"SMS & Call reporting" tab

TrikdisConfig 1.66.43 G17F_32	00		- 🗆 ×
😫 Program 🥜 Action	D About		
	Read [F4] Write [F5]	Open [F8] Save [F9]	Disconnect
System Options	Outputs SMS & Call reporting	a	
Reporting to CMS			
Users & Reporting		User 1 User 2	
Modules	PGM SMS text Check/uncheck all m	SMS Call SMS Call	
Zones	1 Event OUT1 ON		
PGM	1 Restore OUT1 OFF		

- **PGM** the number of output OUT and turn on/off event type ("Event" output OUT turn on event and "Restore" OUT turn off event).
- SMS text output OUT turn on/off event name that will be included in the event's SMS message.
- User SMS/Call choose which users to inform via SMS message and/or call when an output OUT is turned on/off.

5.8 "System events" window

"Events" tab

Program 🎤 Action	Ab	out									
	Rea	d [F4] Write [F5]		Open [-8]	Save [F9]				Disconn	ect
System Options	Eve	ents SMS & Call reportir	na								
Reporting to CMS			2								
Users & Reporting	ID	Event name	Enable	CMS	Prot.	CID Code	SIA E	SIA R	LOOP	SMS event text	SMS restore text
Users & Reporting	ID 1	Event name Low power	Enable	CMS	Prot.	CID Code 302	SIA E		LOOP 99	SMS event text Low power	SMS restore text Power restore
Users & Reporting Modules	1D 1 2	and the second sec	A CONTRACT OF A	In memory	A STREET	Contraction of the second second	100000000	RL	and the second second	and a second	Land the state of
	- 1	Low power		~		302	TY	RL PP	99	Low power	Land the state of
Modules	1	Low power Periodic test	V	V	 ✓ ✓ 	302 602	TY PR	RL PP RR	99 99 99	Low power Periodic test	Power restore





- **ID** event's number on the list.
- Event name event name.
- Enable enable event recognition.
- CMS messages about chosen events will be sent to CMS.
- Prot. notifications about chosen events will be sent to Protegus app.
- CID Code event's Contact ID code.
- **SAI E** SIA Event code.
- **SIA R** SIA Restore code.
- LOOP the loop number is indicated in the SMS message.
- **SMS event text** text of the event's SMS message.
- SMS restore text text of the event's restore SMS message.

"SMS & Call reporting" tab

Program 🥜 Action	About								
	Read [F4]	Write [F5]	0	pen [i	8]	Sa	ave [F9]	Disconnect	
system Options	Events S	MS & Call reporting							
Reporting to CMS							1		
Users & Reporting			User 1		User 2				
	ID	Event SMS text	SMS	Call	SMS	Call			
Modules		Check/uncheck all rows:							
Zones	1 Event	Low power	1		~				
PGM	1 Restore	Power restore	~		-				
	2 Event	Periodic test	-		1				
System events	3 Event	RS485 device fault	-		~				
Events Log	3 Restore	RS485 device restore	1		1				
Firmware	4 Event	GSM jamming	~		~				
	4 Restore	NO GSM jamming	~		~				

- **ID** event's number on the list and identification word (*Event, Restore*).
- Event SMS text text that will be included in SMS messages about events.
- User SMS/Call choose how to inform users about every event via SMS message and/or call.

5.9 "Events Log" window

🗘 Program 🛛 🎤 Action	About					
	Read [F4]	Write [F5]	Oper	n [F8] Save [F9]	Disconnect	
System Options	Read Log	Clear Log				
Reporting to CMS						
Users & Reporting	Event No.	Time	CID	Event definition		
	60	2016-03-01 00:00:00	302:99:000	Low Battery	-	
Modules	59	2016-03-01 00:00:00	305:00:001	System start		
Zones	58	2016-03-01 00:00:00	302:99:000	Low Battery		
PGM	57	2016-03-01 00:00:00	305:00:016	System start	_	
	56	2016-03-01 00:00:00	302:99:000	Low Battery		
System events	55	2016-03-01 00:00:00	305:00:016	System start		
Events Log	54	2016-03-01 00:00:00	302:99:000	Low Battery		
Events Log	34	2010-03-01 00:00:00				

- **Read Log** button for reading the event log from the device's memory.
- **Clear Log** button for clearing the event log entries from the device's memory.
- In the table, you can find the **Event No.**, **Time**, **CID** code, **Event definition**. The events log can show up to 1000 events stored in the *G17F*'s memory.



5.10 Restore default settings

To restore the communicator's default settings, click the TrikdisConfig button Restore.

Default settings Restore							
IMEI/Unique ID: 862261044865843							
Status: Ready	Device: G17F_3200	SN: 000002	BL: 2.03	FW:1.12	HW:	State USB	Role: Administrator

6 Setting parameters remotely

IMPORTANT: Remote configuration will only work when the **G17F**:

- 1. Has an inserted and activated SIM card with the PIN code entered or disabled.
- 2. Has *Protegus service* enabled. See **5.4** "Users & Reporting" window.
- 3. Has the power switched on ("POWER" LED must be green solid);
- 4. Is connected to a network (the "NETWORK" LED must be green solid and blink yellow).

If NETWORK is yellow solid or DATA is yellow solid, the device cannot connect to GSM and/or *Protegus*.

- 1. On your computer, launch the configuration software TrikdisConfig.
- 2. In the **Remote access** window, enter the communicator's **Unique ID** number. You can find this number on the back of the device and on the device's packaging.

📫 TrikdisConfig	1.66.43		-		×
Program	Action	1 Help		5. entre	
	-	Read [F4] Write [F5] Open [F8] Save [F9]			
		USB configuration			
		Configuration program			
	Remo	ote access			
		Unique ID System Name			
	Cho	oose module			
				J	

- 3. (Optional) Enter a desired name for the communicator in the System Name field.
- 4. Click Configure.
- 5. In the window that opens, click Read [F4]. If prompted, enter the administrator or installer code.
- 6. When you are finished setting the desired parameters, click **Write [F5]**. If you are done working with *TrikdisConfig*, click **Disconnect.**

7 Testing the G17F GSM communicator

When configuration and installation are complete, perform a system check:

- 1. To test an input of the communicator, enable it. Check if the events were received by the Central Monitoring Station (CMS) and/or *Protegus* application.
- 2. To test the communicator's outputs, turn them on remotely and check their operation. Ensure that the events were received by the Central Monitoring Station (CMS) and/or *Protegus* application.



3. Perform a fire alarm test to see if the CMS receives events correctly.

8 Updating firmware

Note: After connecting the communicator to *TrikdisConfig*, the program will automatically offer to update the firmware if any updates are available. Internet connection is needed for this feature. Antivirus software, firewall or strict internet access settings can block the automatic update feature.

The communicator's firmware can also be updated or changed manually. All prior settings of the communicator remain after an update. If the firmware is installed manually, it can be changed to a newer or an older version. Perform these steps:

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

frikdisConfig 1.66.43 G17F_32	00	- 0	×
🏠 Program 🎤 Action	D About		
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect	
System Options	Firmware		
Reporting to CMS			
Users & Reporting			
Modules	Open firmware file		
Zones		Open firmware Update [F12]	
PGM			
System events			
Events Log			
Firmware			
Remember password	0%		
Show passwords			
Default settings Restore			

- 4. Click the button **Open firmware** and choose the required firmware file. The newest firmware files can be downloaded from the webpage <u>www.trikdis.com</u>.
- 5. Click the Update [F12] button.
- 6. Wait for the update to finish.