

COMMUNICATORS

GET Cellular Communicator



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Communicator works with Protegus2 application. With Protegus2 users can control their alarm system remotely and get notifications about security system events. The Protegus2 app works with all security alarm panels from various manufacturers to which the GET communicator is connected. Communicator can transmit event notifications to the Central Monitoring Station and work with Protegus2 simultaneously.

1.1 Features

Connects to the control panel's serial or keyboard bus or telephone line (TIP/RING).

Sends events to monitoring station receiver:

- Sends events to *TRIKDIS* software or hardware receivers that work with any monitoring software.
- Can send event messages to SIA DC-09 receivers.
- Can send event messages to SUR-GARD receivers. The annex has a table for converting Contact ID codes to SIA codes.
- Monitoring the connection by sending a PING request to the IP receiver every 30 seconds (or by user defined period).
- Backup channel, that will be used if connection with the primary channel is lost.
- With parallel communication channel events can be sent to two receivers at same time.
- When *Protegus2* service is enabled, events are first delivered to CMS, and only then are sent to app users.

Works with Protegus2 app:

- "Push" and special sound notifications informing about events.
- Remote system Arm/Disarm.
- Remote control of connected devices (lights, gates, ventilation systems, heating, sprinklers, etc.).
- Different user rights for administrator, installer and user.

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Quick setup:

- Settings can be saved to file and quickly written to other communicators.
- Two access levels for configuring the device for CMS administrator and for installer.
- Remote configuration and firmware updates.

1.2 List of compatible control panels

Manufacturer	Model
DSC®	<u>PC585, PC1404, PC1565, PC1616, PC1832, PC1864, PC5020</u>
PARADOX®	<u>SPECTRA SP4000, SP5500, SP6000, SP7000, SP65, SP5500+, SP6000+, SP7000+</u>
PARADOX®	<u>MAGELLAN MG5000, MG5050, MG5050E, MG5050+, MG5075</u>
PARADOX®	<u>DIGI PLEX EVO48, EVO192, EVOHD, EVOHD+</u>
PARADOX®	SPECTRA 1727, 1728, 1738
PARADOX®	ESPRIT E55
UTC Interlogix®	<u>NetworX (Caddx) NX-4v2, NX-6v2, NX-8v2, NX-8e</u>
Texcom®	<u>Premier 24, 48, 88, 168, 640 / Premier Elite 12, 24, 48, 64, 88, 168, 640</u>
Innerrange®	Inception, Integriti
Honeywell®	<u>Ademco Vista-15, Ademco Vista-20, Ademco Vista-48</u>

Underlined - Control panels directly controlled by communicator. Firmware PARADOX control panels, which are directly controlled, must be V.4 or higher.

* Connect control panels from other manufacturers to the GET communicator using the TIP RING terminals of the control panel.

1.3 Communicator model types

This manual is for LTE communicators.

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1.4 Specifications

Parameter	Description
Network connectivity	LTE / Ethernet
Connection to control panel	Serial bus, Keypad bus or TIP RING
Dual purpose terminals [IN/OUT]	2, can be set as either NC; NO; NC/EOL; NO/EOL; NC/DEOL; NO/DEOL (2,2 kΩ) type inputs or open collector (OC) type outputs with current up to 0,15 A, 30 VDC max.
Modem EG915U-EU / (Europe)	LTE FDD: B1/B3/B5/B7/B8/B20/B28
Modem EG915U-EU / (Europe)	GSM: B2/B3/B5/B8
Modem EG915U-LA / (Latin America)	LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66
Modem EG915U-LA / (Latin America)	GSM: B2/B3/B5/B8
Modem BG95-M5 (Cat M1)	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
Modem BG95-M5 (Cat M1)	EGPRS: 850/900/1800/1900 MHz
Power supply voltage	10-18 V DC
Current consumption	175 mA
Transmission protocols	TRK8, DC-09_2007, DC-09_2012, TL150
Message encryption	AES 128
Buffer memory capacity	60 events
Changing settings	With TrikdisConfig computer program remotely or locally via USB-C port
Operating environment	Temperature from -10 °C to 50 °C, relative humidity - up to 80% at +20 °C
Communicator dimensions	113 x 70 x 25 mm
Weight	110 g

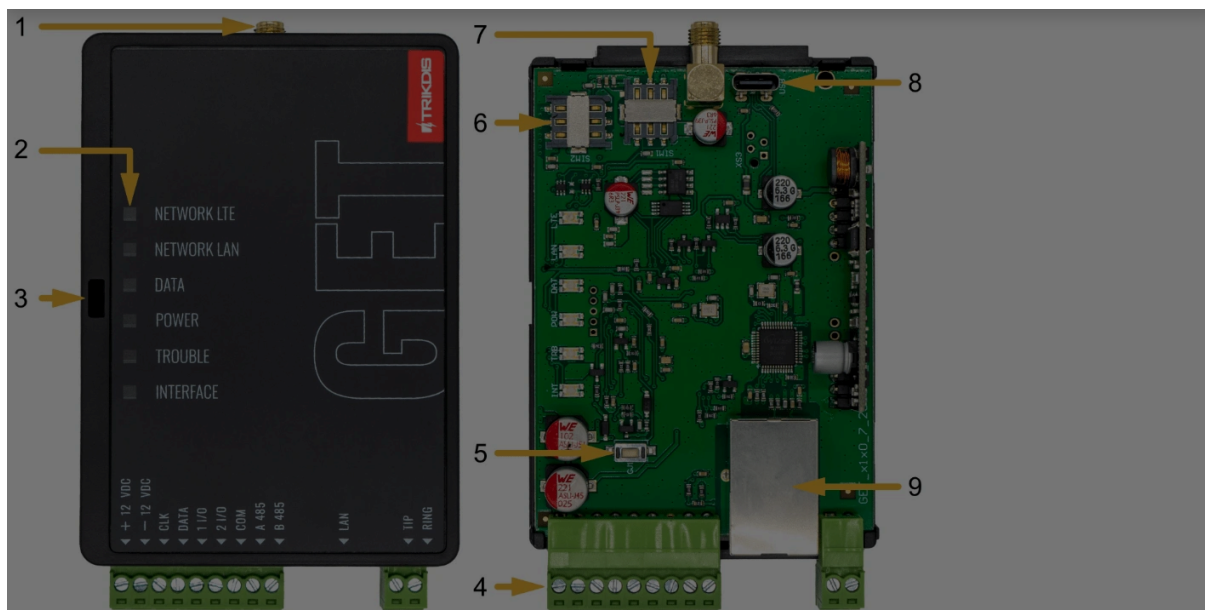
1.5 Communicator elements

1. Cellular antenna SMA connector
2. Light indicators
3. Frontal case opening slot

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1.6 Purpose of terminals

Terminal	Description
+12 VDC	+10 V/+18 V DC power supply
-12 VDC	0 V DC power supply
CLK	Serial bus terminals for direct connection to control panel
I/O 1	1st input/output terminal (default setting – OUT)
I/O 2	2nd input/output terminal (default setting – OUT)
COM	Common (negative) terminal
A 485	Not used
LAN	Ethernet connection RJ45 socket
TIP	Terminal to connect with control panel TIP terminal
RING	Terminal to connect with control panel RING terminal

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1.7 LED indication of operation

Indicator	Light status	Description
NETWORK LTE	Off	No connection to cellular network
NETWORK LTE	Yellow blinking	Connecting to cellular network
NETWORK LTE	Green solid with yellow blinking	Communicator is connected to cellular network. / Sufficient cellular signal strength for 4G level 3 (three yellow flashes)
NETWORK LAN	Off	No connection to a computer network
NETWORK LAN	Green solid	Communicator is connected to a computer network
DATA	Off	No unsent events
DATA	Green solid	Unsent events are stored in buffer
DATA	Green blinking	(Configuration mode) Data is being transferred to/from communicator
POWER	Off	Power supply is off or disconnected
POWER	Green solid	Power supply is on with sufficient voltage
POWER	Yellow solid	Power supply voltage is insufficient ($\leq 11.5V$)
POWER	Green solid and yellow blinking	(Configuration mode) Communicator is ready for configuration
POWER	Yellow solid	(Configuration mode) No connection with computer
TROUBLE	OFF	No operation problems
TROUBLE	1 red blink	Connection error at the "physical" level (PHY Link status error), check LAN cable
TROUBLE	2 red blinks	SIM1 card error
TROUBLE	3 red blinks	SIM2 card error
TROUBLE	7 red blinks	Lost connection with control panel (serial bus)

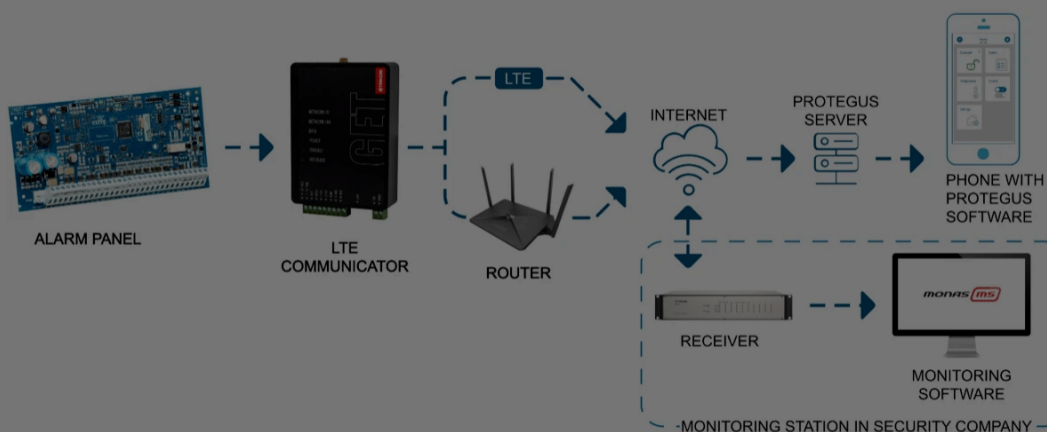
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1.8 Structural schematic of using the GET communicator



NOTE

Before you begin, make sure that you have the necessary:

1. USB-C cable for configuration.
2. At least 4-wire cable for connecting communicator to control panel.
3. CRP2 cable for connecting to Paradox panel's serial port.
4. Flat-head 2,5 mm screwdriver.
5. Sufficient gain cellular antenna if network coverage in the area is poor.
6. Activated SIM card (PIN code request can be turned off).
7. Particular security control panel's installation manual.

Order the necessary components separately from your local distributor.

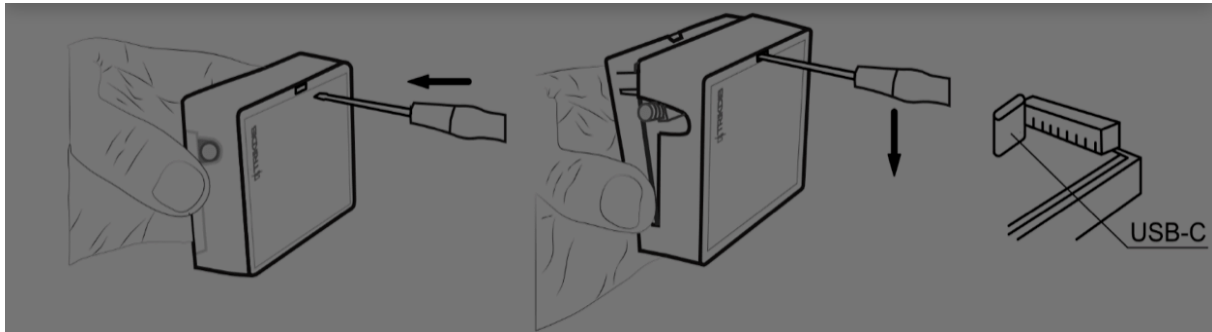
2. Quick configuration with *TrikdisConfig* software

1. Download **TrikdisConfig** configuration software from www.trikdis.com (type

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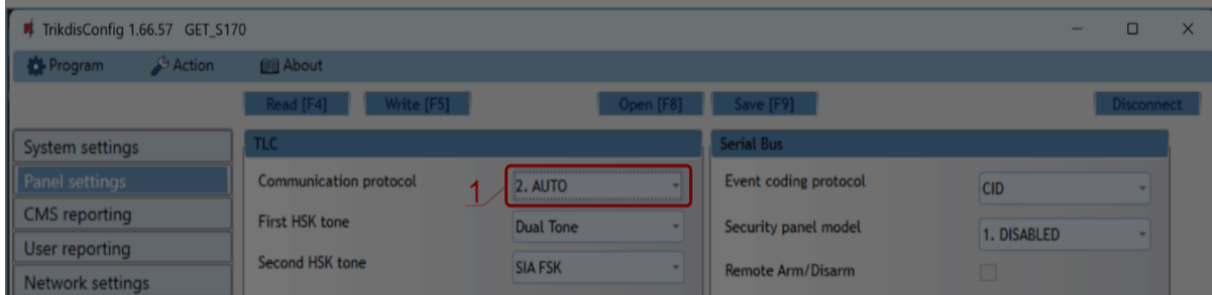


3. Using a USB-C cable connect the communicator to the computer.
4. Run TrikdisConfig. The software will automatically recognize the connected communicator and will open a window for configuration.
5. Click **Read [F4]** to read the communicator's settings. If requested, enter the Administrator or Installer 6-digit code in the pop-up window.

Below we describe what settings need to be set for the communicator to begin sending events to the Central Monitoring Station (CMS) and to allow the security system to be controlled with the Protegus2 app.

2.1 Settings for connection with Protegus2 app

In "Panel settings" window:



1. If the communicator is connected to the TIP/RING terminals of the control panel, then you need to make the "AUTO" setting.

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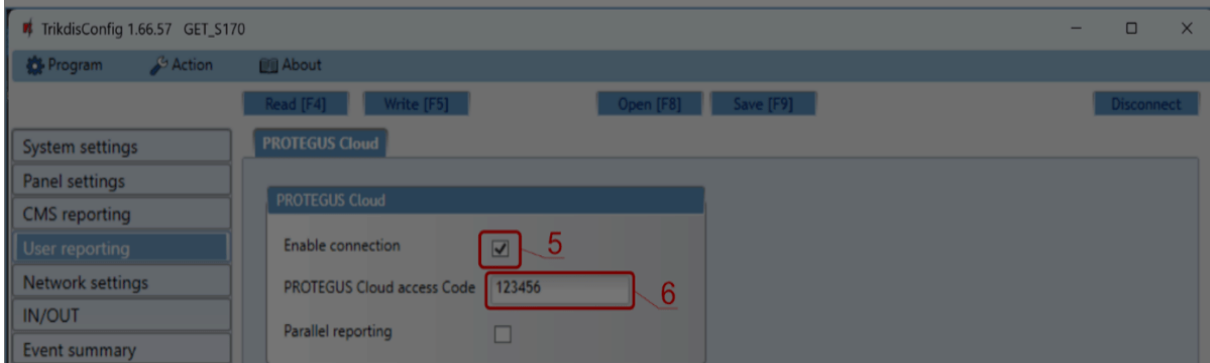


2. Select **“Security panel model”** that will be connected to the communicator.
3. Select **“Remote Arm/Disarm”** if you want users to be able to control the panel in Protegus2 app with their keypad code. This setting is only shown for directly controlled panels.
4. For the direct control of Paradox and Texecom panels enter **“Security panel PC download password”**. It must match the password that is entered in the control panel.

NOTE

For the direct panel control to work, you will need to change the panel settings. How to do this is described in chapter 4.1 "Programming of control panels when the communicator is connected to the keypad bus or serial bus". In this section you will find information on how to change the **"PC download/UDL password"**.

In **“User reporting”** window, **“PROTEGUS Cloud”** tab:



4. Tick the checkbox **“Enable connection”** to the Protegus Cloud.
5. Change the **“PROTEGUS Cloud access Code”** for logging in to Protegus2 if you want users to be asked to enter it when adding the system to Protegus2 app (default password – 123456).

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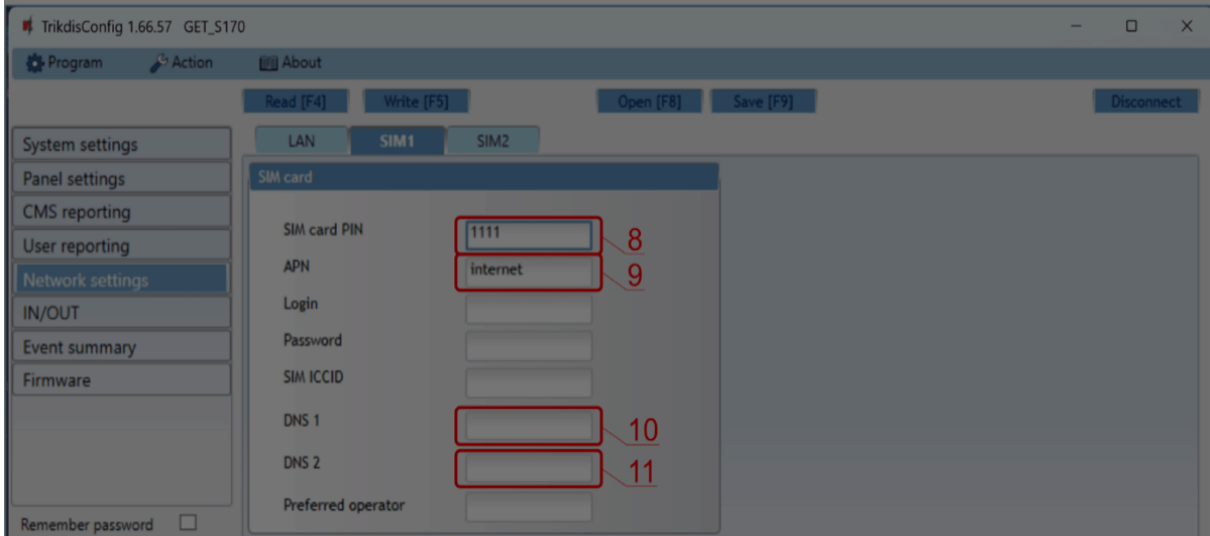
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These settings must be made if the communicator is connected to a LAN network.

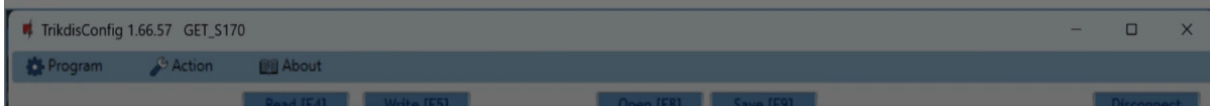
3. Check **“Use DHCP”** the box so that the communicator automatically reads the computer network settings (subnet mask, gateway) and is assigned an IP address.



These settings must be made if the SIM (or two SIM cards) card is inserted into the communicator.

4. Enter **“SIM card PIN”** code.
5. Change **“APN”** name. **“APN”** can be found on the website of the SIM card operator (“internet” is universal and works in many operator networks).
6. Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**
7. Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**

In **“CMS reporting”** window:



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12. In the group of options "**Reporting mode**", the order of communication channels is set, how the communicator will send messages to CMS and to Protegus2. The connection types are specified in order. If the communicator fails to connect using the "**Main type**" connection, it switches to the "**Backup type**", and so on. If the backup connection type was successful in transmitting the message to the CMS, then the Return to main connection type will be attempted after the specified time interval.

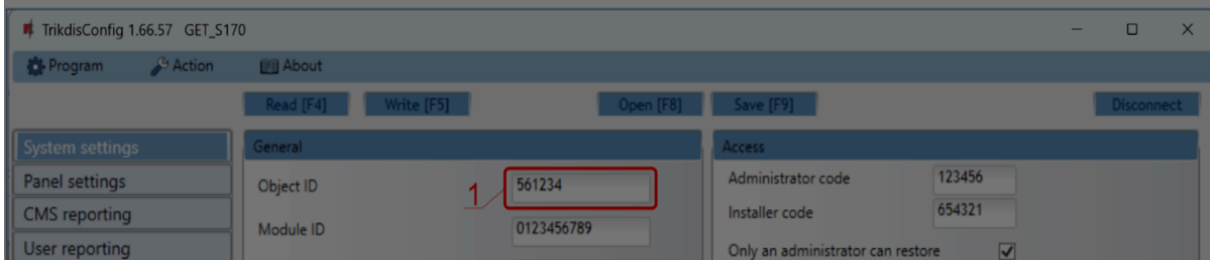
After finishing configuration, click the button **Write [F5]** and disconnect the USB cable.

NOTE

For more information about other GET settings in TrikdisConfig, see chapter 6 „**TrikdisConfig window description**".

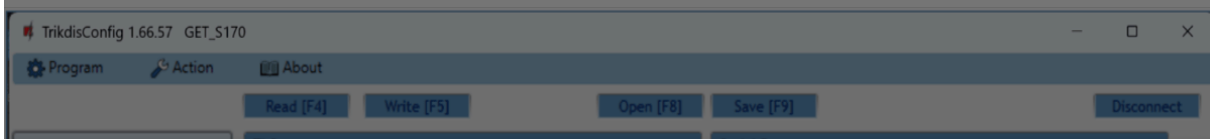
2.2 Settings for connection with Central Monitoring Station

In "**System settings**" window:



1. Enter "**Object ID**" (account) number provided by the Central Monitoring Station (characters, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).

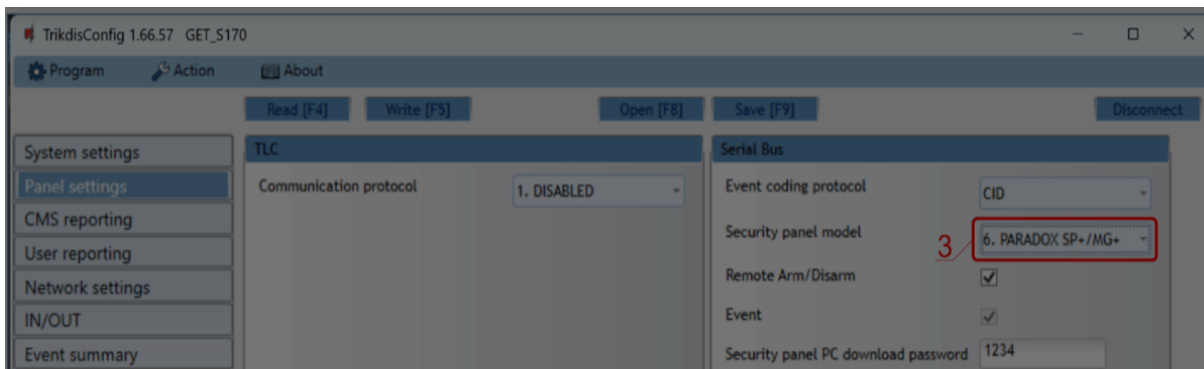
In "**Panel settings**" window:



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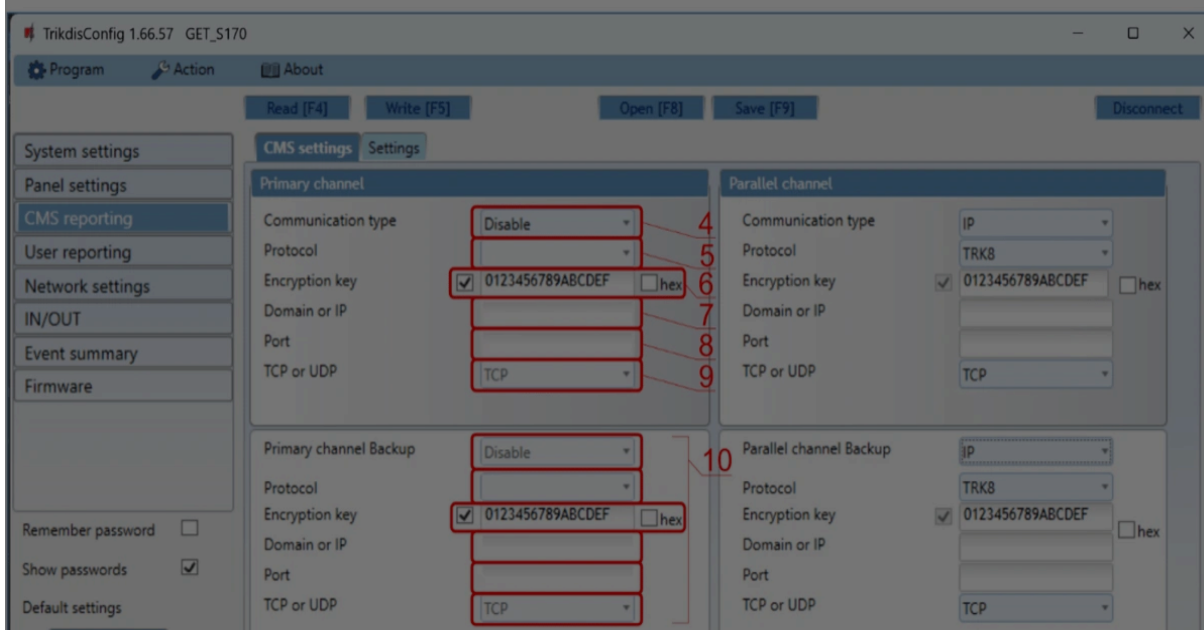
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3. Select “**Security panel model**” that will be connected to the communicator.

In “CMS reporting” window settings for “Primary channel”:



4. **Communication type** - select the **IP** connection method.

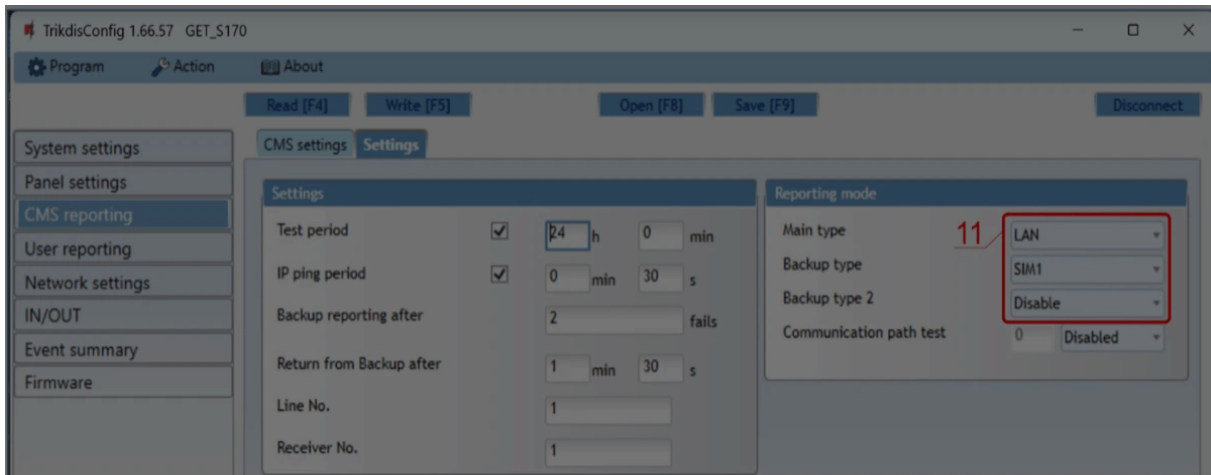
5. **Protocol** - select the protocol type for event messages: **TRK8** (to TRIKDIS receivers), **DC-09_2007** or **DC-09_2012** (to universal receivers), **TL150** (to SUR-GUARD receivers).

6. **Encryption key** - enter the encryption key that is set in the receiver.

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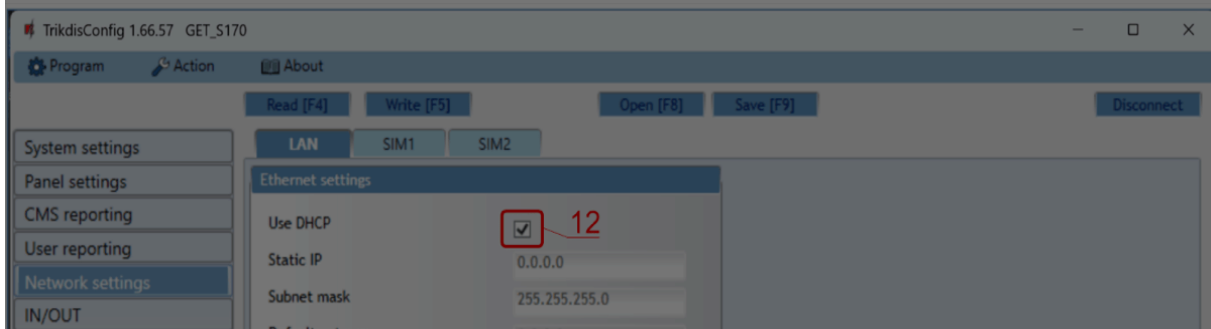
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11. In the group of options "**Reporting mode**", the order of communication channels is set, how the communicator will send messages to CMS and to Protegus2. The connection types are specified in order. If the communicator fails to connect using the "**Main type**" connection, it switches to the "**Backup type**", and so on. If the backup connection type was successful in transmitting the message to the CMS, then the return to main connection type will be attempted after the specified time interval.

In "Network settings" window:



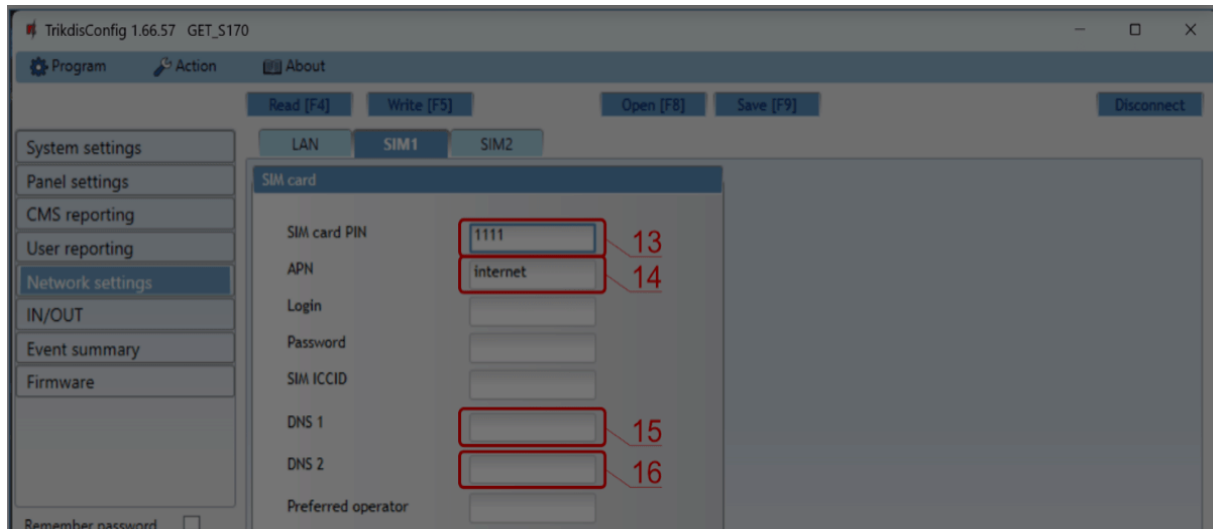
These settings must be made if the communicator is connected to a LAN network.

12. Check "**Use DHCP**" the box so that the communicator automatically reads the computer network settings (subnet mask, gateway) and is assigned an IP address.

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If a SIM card (or two SIM cards) is inserted in the communicator, the following settings must be made.

13. Enter "**SIM card PIN**" code.
14. Change the "**APN**" name. "**APN**" can be found on the website of the SIM card operator ("internet" is universal and works in many operator networks).
15. Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**
16. Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**

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

NOTE

For more information about other GET settings in TrikdisConfig, see chapter 6 „**TrikdisConfig window description**".

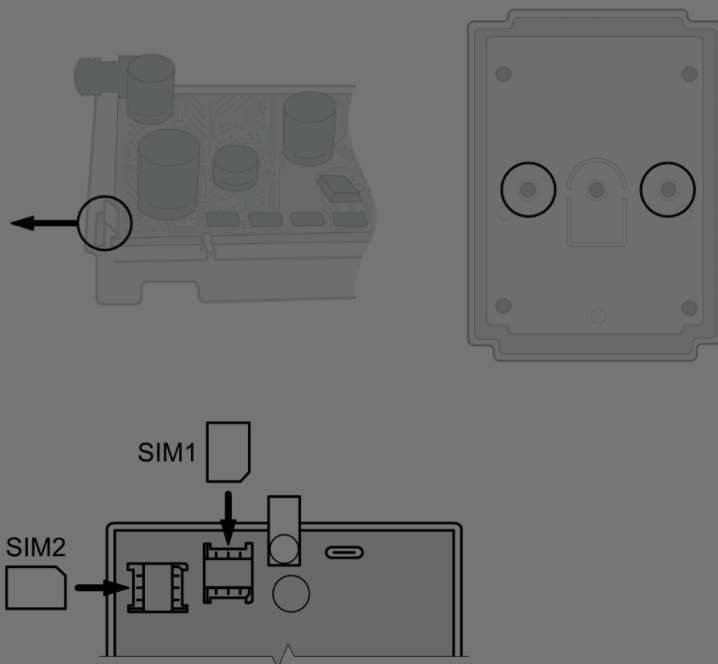
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5. Place the PCB board back into case, insert contact terminal.
6. Screw cellular antenna on.
7. Close the top cover.
8. If the LAN network will be used to transmit events to the CMS, a LAN cable must be connected to the communicator.



NOTE

One or two SIM cards can be inserted into the communicator. / Ensure that the SIM card is activated. / Ensure that mobile internet service (mobile data) is enabled if connected via IP channel. / To avoid entering the PIN code in TrikdisConfig, insert the SIM card into your mobile phone and turn off the PIN request function.

3.2 Installation in intrusion control panel enclosure panel

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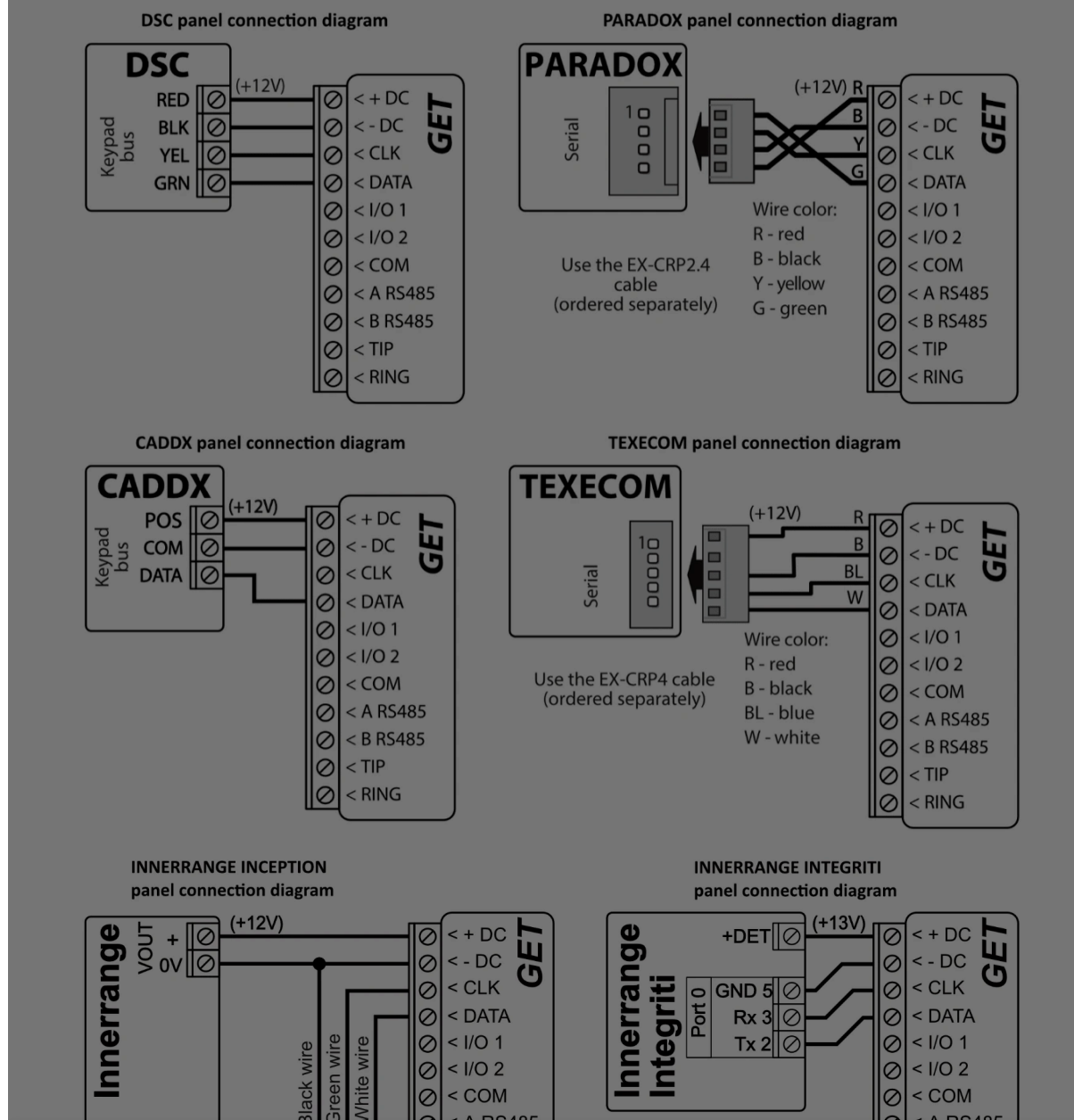
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3.3 Schematics for wiring the communicator to a security control panel

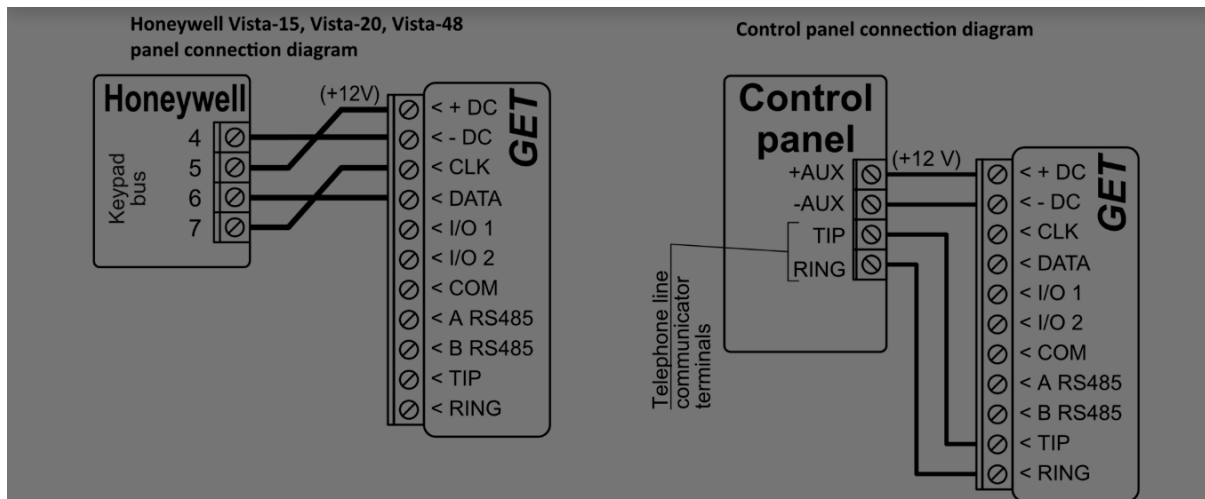
Following one of the schematics provided below, connect communicator to the control panel.



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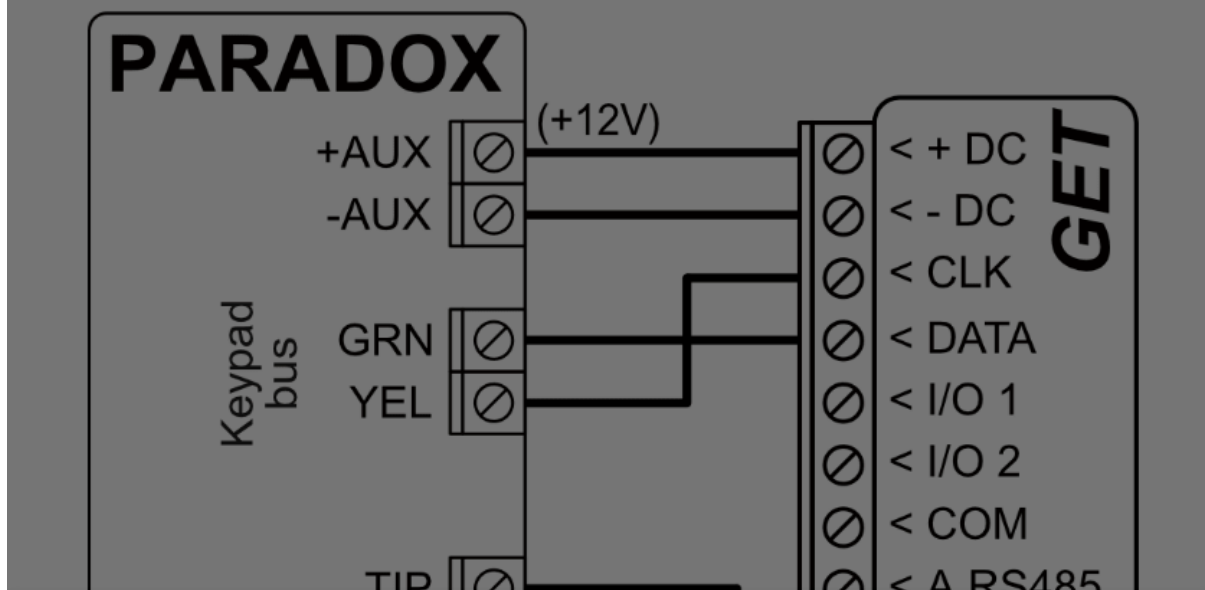
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3.4 Schematic for wiring of the communicator to the keypad bus and telephone communicator (TIP/RING terminals) of the PARADOX SP/SP+/MG/MG+ control panel

PARADOX SP/SP+/MG/MG+ panel connection diagram



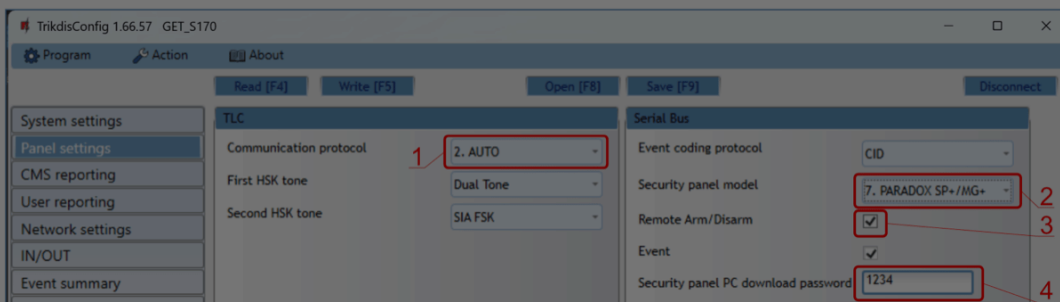
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1. Select **"AUTO"**.
2. Select the control panel model **"7. Paradox SP+/MG+ series KeyBus"**.
3. Select **"Remote Arm/Disarm"** if you want users to be able to control the panel using the Protegus2 app using their own keypad code.
4. To directly control the security panel, enter the **"Security panel PC download password"**. It must match the password entered in the security panel.



The Paradox control panel must be programmed to transmit events to the CMS and for remote control from the Protegus2 application.

Cell	Data	Cell	Data
801	*****	815	123456
811	1111	911	1234
812	2222		

3.5 Schematic for wiring the communicator to the control panel keyswitch zone

Follow this schematic if the control panel will be armed/disarmed with a communicator PGM output turning on/off the panel's keyswitch zone.

NOTE

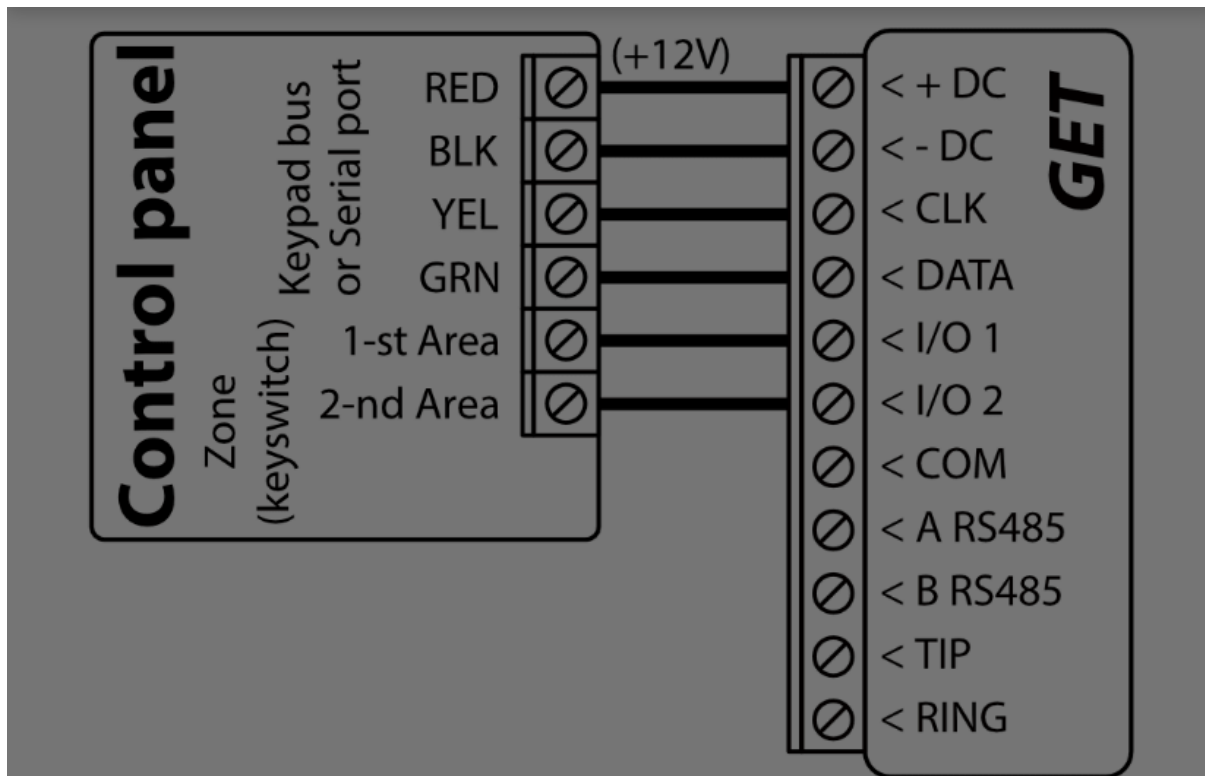
GET communicator has 2 universal input / output terminals that can be set to the OUT (PGM)

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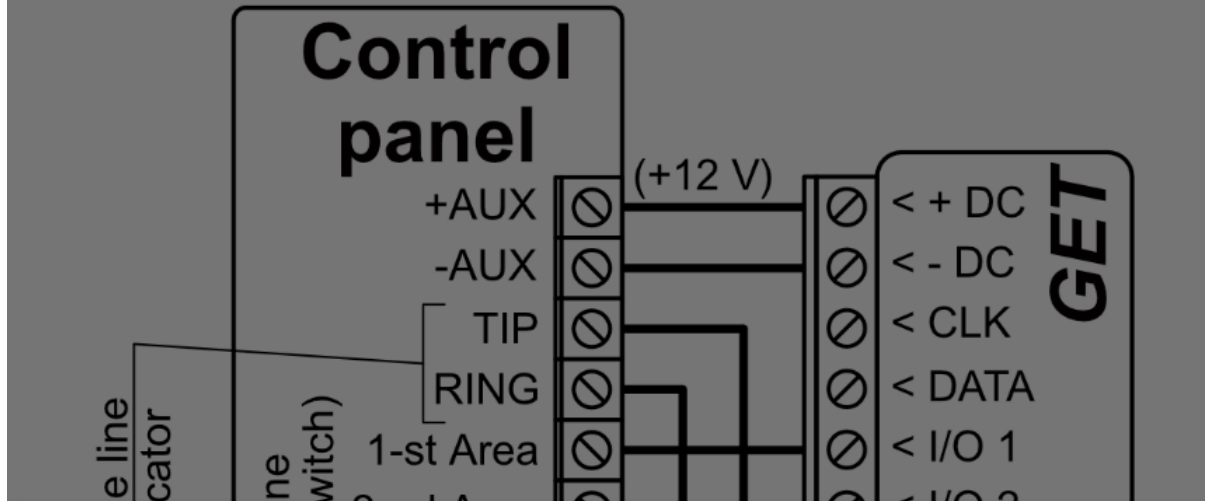
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The communicator is connected to the telephone communicator (TIP/RING terminals) of the control panel. / Arming/disarming the panel via the keyswitch zone.



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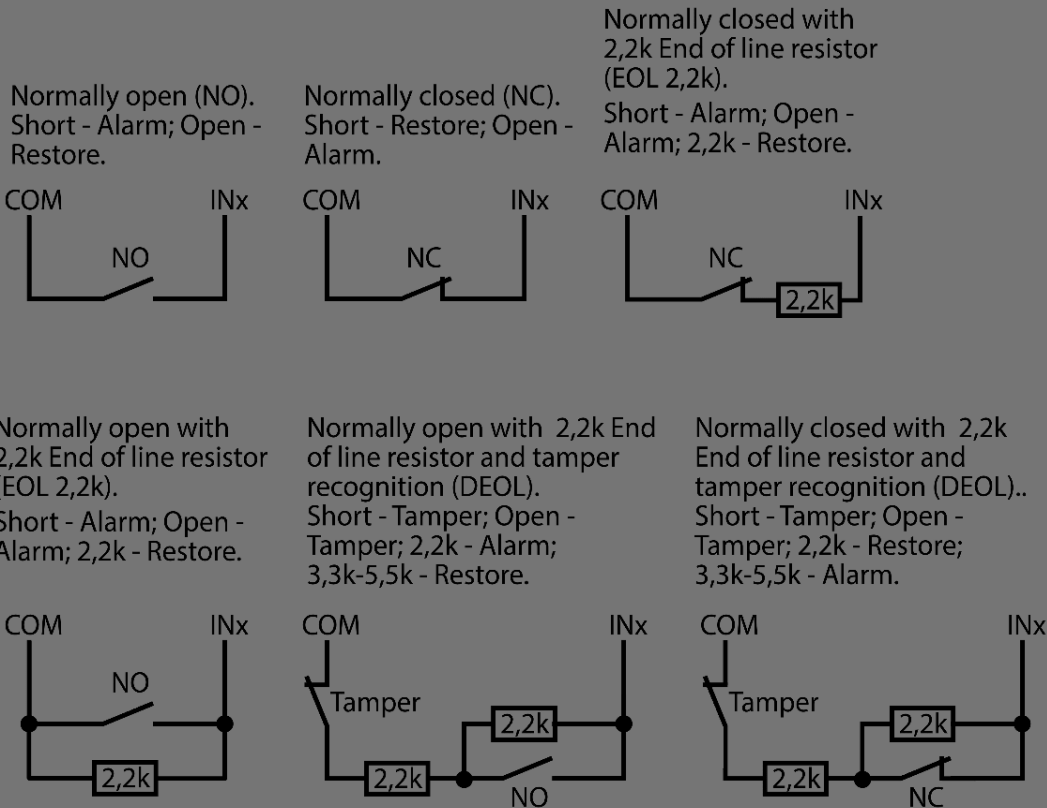




3.6 Schematics for input connection

The communicator has 2 universal input / output terminals that can be set to input IN mode. NC, NO, NO / EOL, NC / EOL, NO / DEOL, NC / DEOL circuits can be connected to the input terminal. The input type can be changed in the TrikdisConfig window „IN/OUT” -> “Type”.

Connect the input according to the selected input type (NO, NC, NC/EOL, NO/EOL, NO/DEOL, NC/DEOL), as shown in the schemes below:



3.7 Schematics for wiring a relay

With relay contacts you can control (turn on/off) various electric appliances. The I/O terminal of the communicator must be set to an output (OUT) mode.

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3.8 Turn on the communicator

To start the communicator, turn on the security control panel's power supply. This LED indication on the GET communicator must show:

- "POWER" LED illuminates green when the power is on;
- "NETWORK LTE" LED illuminates green and blinks yellow when the communicator is registered to the cellular network.

NOTE

Sufficient strength of LTE signal is level three (three "NETWORK LTE" indicator flashes in yellow color). / If you count less yellow "NETWORK LTE" LED flashes, the network signal strength is insufficient. We recommend to select a different place to install the communicator, or to use a more sensitive cellular antenna. / If you see a different LED indication, it indicates a certain malfunction. Diagnose it by following the LED indication table in chapter 1.6 "LED indication of operation". / If the GET indication does not illuminate at all, check the power supply and connections.

4. Programming the control panel

4.1 Programming of control panels when the communicator is connected to the keypad bus or serial bus

Below it is described how to program the security control panel so that the GET communicator could read events from the panel and control it remotely.

To enable remote control of the security panel, make sure that the checkbox "**Remote Arm/Disarm**" is selected in the TrikdisConfig window "**Panel settings**".

4.1.1 DSC

DSC panels do not need to be programmed.

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- For MAGELLAN, SPECTRA series: go to cell 911 and enter 4-digit PC download password.
- For DIGIPLEX EVO series: go to cell 3012 and enter 4-digit PC download password.

4.1.3 TEXECOM

Texecom control panels need to be programmed for both reading events and remote control.

You need to set the Texecom panel's "**UDL passcode**". This password must match the password which was set in the TrikdisConfig window "**Panel settings**", when the box next to "**Remote Arm/Disarm**" was selected.

The security control panel can be programmed with Texecom software - Wintex. Enter "**UDL passcode**" (4-digit code) in the "**Communication Options**" window, "**Options**" tab.

Also, you can program with a keypad connected to the security control panel:

1. Enter the 4-digit installer's code and press the [Menu] button to enter the programming menu.
2. Press the [9] key immediately afterwards.
3. Press [7][6], and then [2]. Enter the 4-digit "**UDL passcode**" ("**UDL passcode**" must match the GET communicator's "**PC login password**").
4. Press [Yes] and leave the programming mode by pressing [Menu].

4.1.4 UTC INTERLOGIX (CADDX)

With the keyboard connected to the security control panel:

1. Press [*][8] and enter the installer's code (default - 9713).
2. Enter the device number assigned to the connected communicator (default - 0).
3. Set the settings below for each row. In sequence, enter the position, segment number and the required setting. Clicking [*] (asterisk) will return you to the local input field.

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Position	Segment	Setting
23	3	12345678
37 (not necessary)	3	12345678
37 (not necessary)	4	1234567*
90	3	12345678
93	3	12345678
96	3	12345678
99	3	12345678
102	3	12345678
105	3	12345678
108	3	12345678

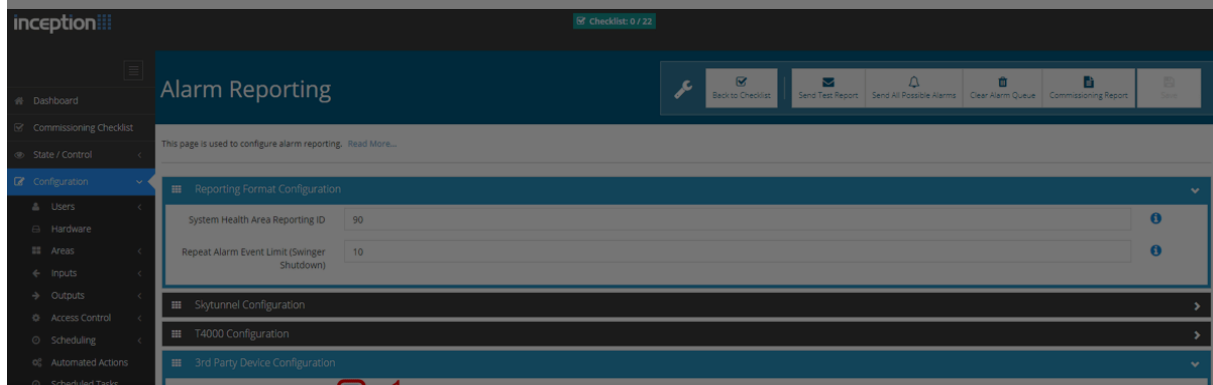
After having programmed all the fields listed, press [Exit] twice to exit the programming mode.

4.1.5 INNERRANGE

Innerrange Inception security control panel version must be **2.3.0.3507-r0** or higher.

The control panel must be connected to the internet. Connect to **Innerrange Inception** by entering: <https://skytunnel.com.au/inception/SERIALNUMBER>, where SERIALNUMBER is the number of the controller that you can find on the panel's enclosure.

Open **Configuration > General > Alarm Reporting**. In the **3rd Party Device Configuration** settings group you need to enter:



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4. Save settings and exit the application.

4.1.6 HONEYWELL ADEMCO VISTA

Follow these steps for **Honeywell Ademco Vista-20** and **Honeywell Ademco Vista-48** panels. **The panel's firmware version must be V5.3 or higher.** With a keypad that is connected to the panel:

1. Enter the programming mode. Enter the installer code 4][1][1][2] and after that [8][0][0] . Alternatively, turn on the panel's power supply. In 50 seconds after the power supply is turned on, press the buttons [*] and [#] at the same time (this method can be used when programming mode was exited by pressing in keypad [*][9][8]).
2. Turn on the sending of Contact ID events via LRR. Press [*][2][9][1][#] in keypad.
3. When using the „Remote Arm/Disarm“ function, allow to use the 2nd AUI address. In keypad press [*][1][8][9][1][1][#] .

Exit the programming mode. In keypad press [*][9][9].

4.2 Programming of control panels when the communicator is connected to the TIP/RING terminals of the control panel

For the control panel to send events via the landline dialer, it must be turned on and properly set up. Following the panel's programming manual, configure the control panel's landline dialer:

1. Turn on the panel's PSTN landline dialer.
2. Enter the monitoring station receiver's telephone number (you can use any number longer than 4 digits. The GET communicator will pick up and answer when the panel calls to any phone number).
3. Choose DTMF mode.
4. Select Contact ID communication protocol.
5. Enter the panel's 4 digit account number.

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**NOTE**

Keyswitch zone can be momentary (pulse) or level. By default, the GET controllable output OUT is set to 3 second pulse mode. You can change the impulse duration or change to level mode in Protegus2 settings. See chapter 5.2 "Additional settings to arm/disarm the system using the control panel's keyswitch zone".

4.2.1 PROGRAMMING HONEYWELL VISTA LANDLINE DIALER

Using the control panel's keypad enter these sections and set them as described:

- *41 – enter monitoring station receiver telephone number;
- *43 – enter control panel's account number;
- *47 – set the Tone dial to [1] and enter the number of dial attempts;
- *48 – use default setting, *48 must be set to 7;
- *49 – Split/Dual message. *49 must be set to 5;
- *50 – delay for sending burglary alarm events (optional). Default value is [2,0]. With it the event message transmission will be delayed for 30 seconds. If you want the message to be sent immediately, set [0,0].

When all required settings are set, it is necessary to exit programming mode. Enter *99 in keypad.

4.2.2 SPECIAL SETTINGS FOR HONEYWELL VISTA 48 PANEL

If you want to use GET communicator with Honeywell Vista 48 panel, set the following sections as described:

Section	Data	Section	Data	Section	Data
*41	1111 (receiver telephone number)	*60	1	*69	1
*42	1111	*61	1	*70	1

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When all required settings are set, it is necessary to exit programming mode. Enter *99 in keypad.

4.2.3 UTC INTERLOGIX(CADDX)

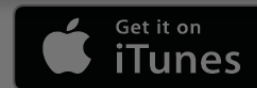
Programming of the **Interlogix NX-4V2 (NX-6V2, NX-8V2)** control panel when the communicator is connected to the TIP/RING terminals of the control panel.

	Keypad Entry	Description
	*89713	Enter programming mode
	0#	
Location 0	0#	
Location 0	1234#	
Location 1	1#	
Location 1	1234#	
Location 2	2#	
Location 2	1*#	
Location 4	4#	All zones LEDs are ON (segment 1)
Location 4	12345678*	All zones LEDs are ON (segment 2)
Location 4	12345678*#	
Location 23	23#	All zones LEDs are ON (segment 3)
Location 23	**	All zones LEDs are ON (segment 3)
Location 23	12345678*#	All zones LEDs are ON (segment 3)
Location 37	37#	All zones LEDs are ON (segment 3)
Location 37	**	All zones LEDs are ON (segment 4)
Location 37	12345678*	
Location 37	12345678*#	
	EXIT EXIT	Exit programming mode

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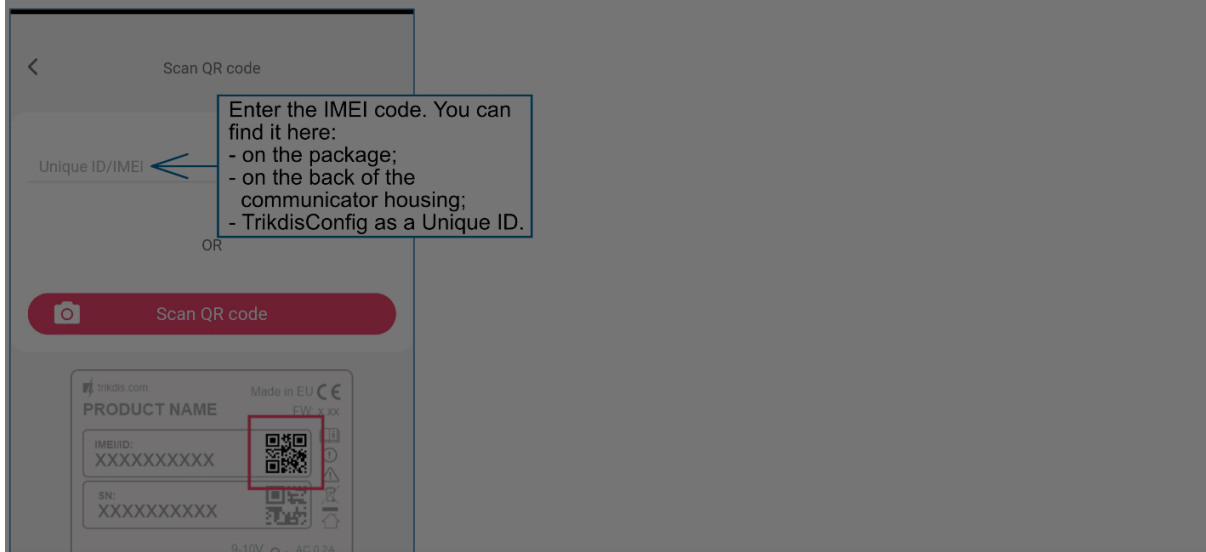
2. Log in with your user name and password or register and create new account.

⚠ IMPORTANT

When adding the GET communicator to Protegus2 check if:

1. The inserted SIM card is activated and the PIN code is either entered or disabled;
2. Or a LAN cable is connected.
3. "Proteagus cloud" is enabled. See chapter 6.5 "User reporting" window;
4. Power supply is connected ("POWER" LED illuminates green);
5. Registered to the network ("NETWORK LTE" LED illuminates green and blinks yellow).

3. Click **"Add new system"** and enter the GET's *"IMEI/Unique ID"* number. This number can be found on the device and the packaging sticker. Click **"Next"**.



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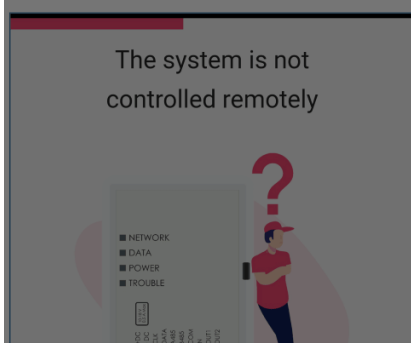
5.2 Additional settings to arm/disarm the system using the control panel's keyswitch zone

IMPORTANT

The control panel zone to which the GET output OUT is connected to has to be set to keyswitch mode.

Follow the instructions below if the security control panel will be controlled with a GET PGM output, turning on/off the control panel keyswitch zone.

1. Click „**Continue**“.



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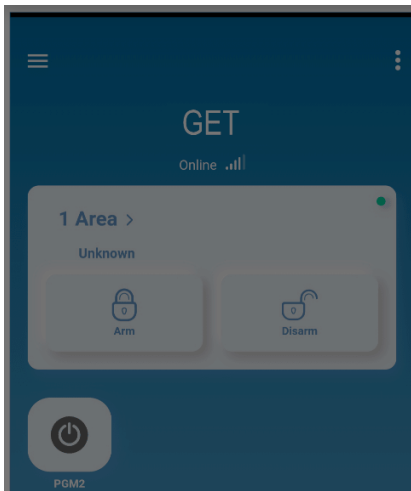
3. Select **"Pulse"** or **"Level"**, depending on how the keyswitch zone type is configured. If necessary, you can change the **"Pulse"** interval.
4. Click **„Save"**.

3. If there is another Area for the security system, then you need to click **"Click to add an area"**. Setting up the PGM output is similar to that described above.
4. After completing the settings, click the **"Skip"** button.

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6. TrikdisConfig window description

6.1 *TrikdisConfig* status bar description

After connecting the GET communicator and clicking **Read [F4]**, *TrikdisConfig* will provide information about the connected device in the status bar:

IMEI/Unique ID: 865413051387065	
Status: reading done	Device GET_S170 SN:000033 BL: 1.00 FW:1.15 HW: 0.00 State HID Administrator
Object	Description
IMEI/Unique ID	Device IMEI number
Status	Operating condition
Device	Device type (GET should be shown)
SN	Device serial number
BL	Browser version
FW	Device firmware version
HW	Device hardware version
State	Connection to program type (via USB or remote)
Administrator	Access level (shown after access code is

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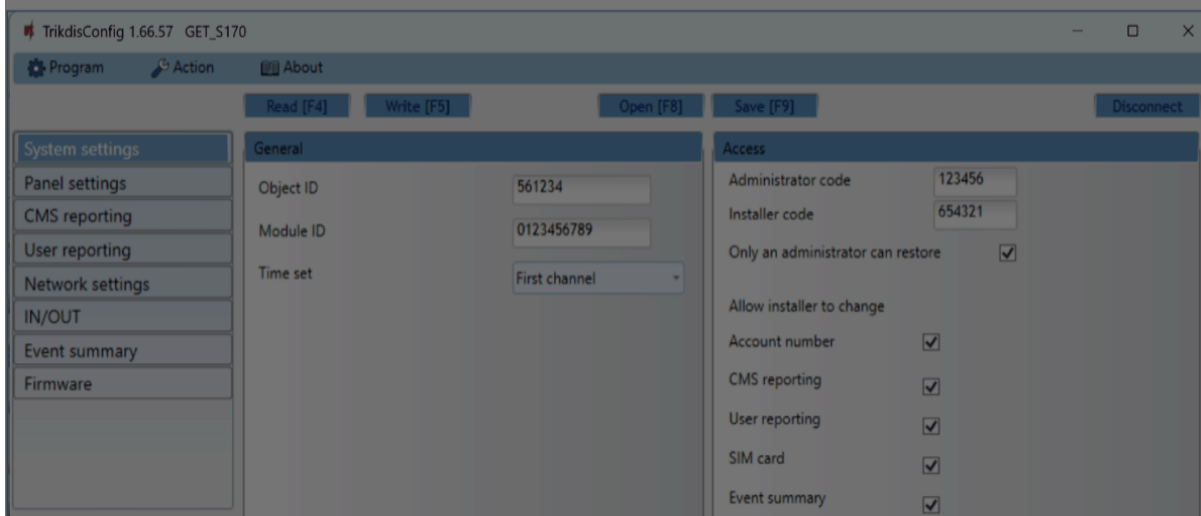
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6.2 "System settings" window



"General" settings group

- **Object ID** – if the events will be sent to the CMS (Central Monitoring Station), enter the account number provided by the CMS (6 characters hexadecimal number, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).
- **Module ID** – enter the identification number of the module.
- **Time set** - select which server to use for time synchronization.

"Access" settings group

When setting up the communicator GET there are two levels of access for, the administrator and the installer:

- **Administrator code** - allows you to access all configuration fields (default code - 123456).
- **Installer code** - limited access for configuring the communicator (default code - 654321).
- **Only an administrator can restore** - if the box is checked, factory settings can be restored only by entering the administrator code.

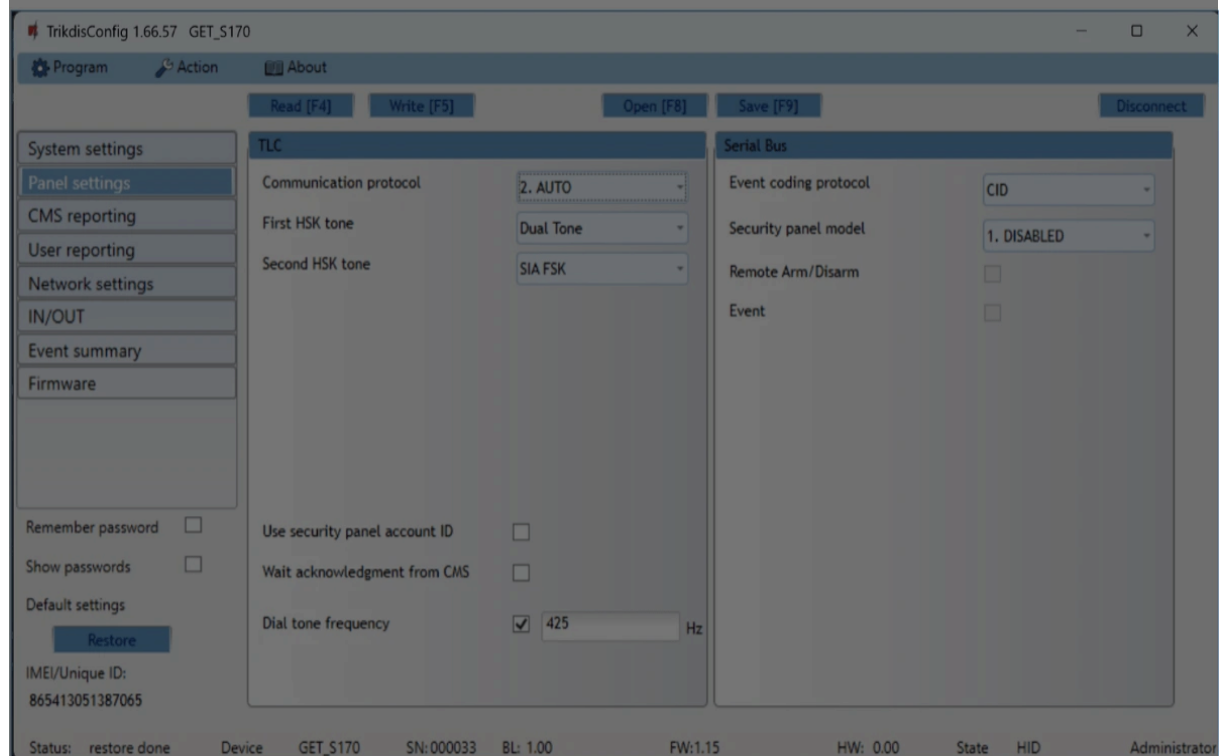
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6.3 "Panel settings" window



"TLC" settings group

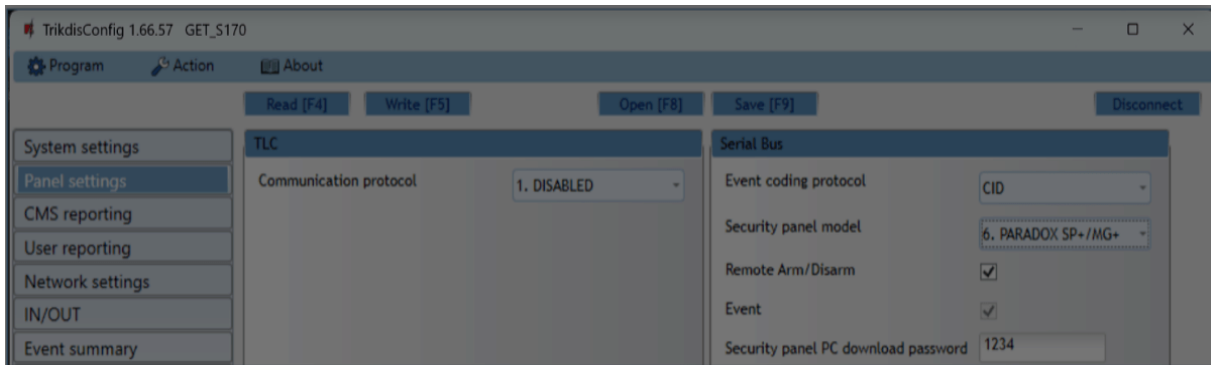
The communicator is connected to the TIP RING terminals of the telephone communicator of the control panel.

- **Communication protocol** – enable/disable DTMF landline interface on the communicator.
- **First HSK tone / Second HSK tone** – handshake" tone of control panel.
- **Use security panel account ID** – if the box is marked with a check mark, the communicator will not send the value set in the "**Object ID**" field, but the object number entered in the control panel.
- **Wait acknowledgment from CMS** – if the box is marked with a check mark, after sending each event message, the communicator will wait for confirmation from the IP

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“Serial bus” settings group

The communicator is connected to the control panel via a Serial Bus.

- **Event coding protocol** – select the event reporting protocol (CID or SIA).
- **Security panel model** – select the control panel model that will be connected to the communicator.
- **Remote Arm/Disarm** – when the checkbox is selected, the GET will directly control the control panel remotely. This setting will be visible only for directly controlled panels. For direct control of the control panels you need to change the panel settings, as described in section 4.1 “Programming of control panels when the communicator is connected to the keypad bus or serial bus”.
- **Event** – check the box so that the communicator sends events to the CMS and to Protegus2.
- **Security panel PC download password** - for the direct control of Paradox and Texecom control panels you need to enter the PC/UDL password. It must match the password that was entered in the control panel. How to change this password is described in section 4.1 “Programming of control panels when the communicator is connected to the keypad bus or serial bus”.

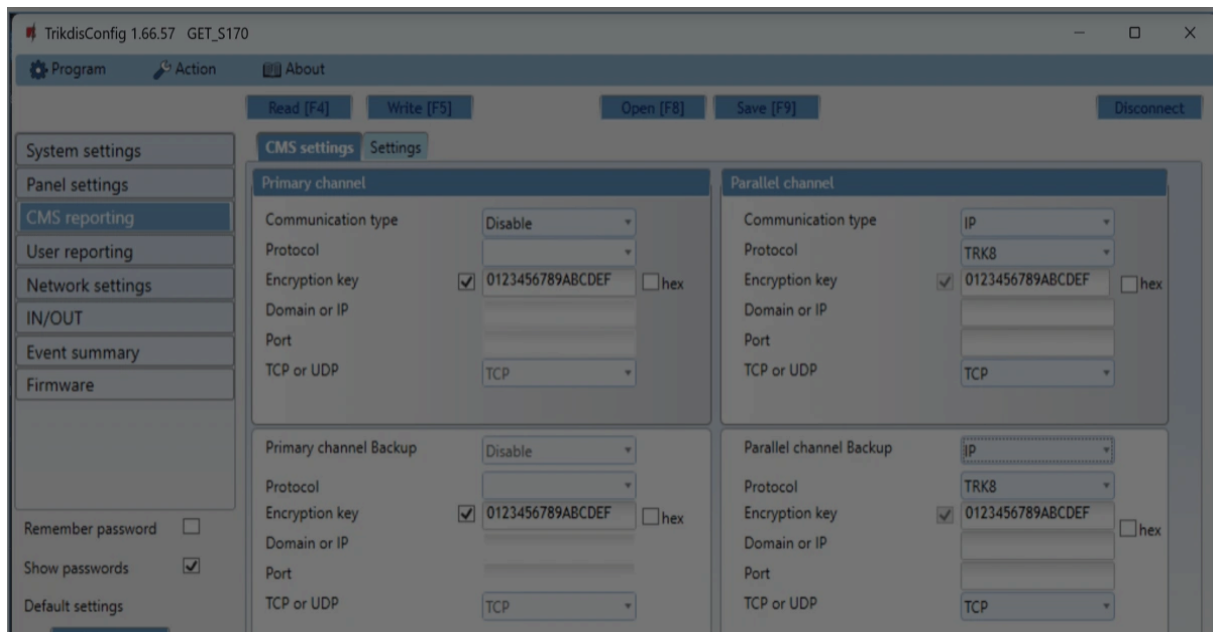
6.4 “CMS reporting” window

“CMS settings” tab

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Events can be sent over several channels of communication. The primary and parallel communication channels can operate simultaneously, this way the communicator can send events to two receivers at the same time. Backup channels can be assigned for both primary and parallel channels, which will be used when the connection via the primary or parallel channel is interrupted.

Communication is encoded and password protected. A TRIKDIS receiver is required for receiving and sending event information to the monitoring programs:

- **For connection over IP** - software receiver IPcom Windows/Linux, hardware IP/SMS receiver RL14 or multichannel receiver RM14.

“Primary channel” settings group

- **Communication type** - select the method of communication with the monitoring station receiver (**IP**).
- **Protocol** - select in which coding the events should be sent: **TRK8** (to TRIKDIS receivers), **DC-09_2007** or **DC-09_2012** (to universal receivers), **TL150** (to SUR-GUARD receivers).
- **Encryption key** - 6-digit message encryption key. The key written to the communicator

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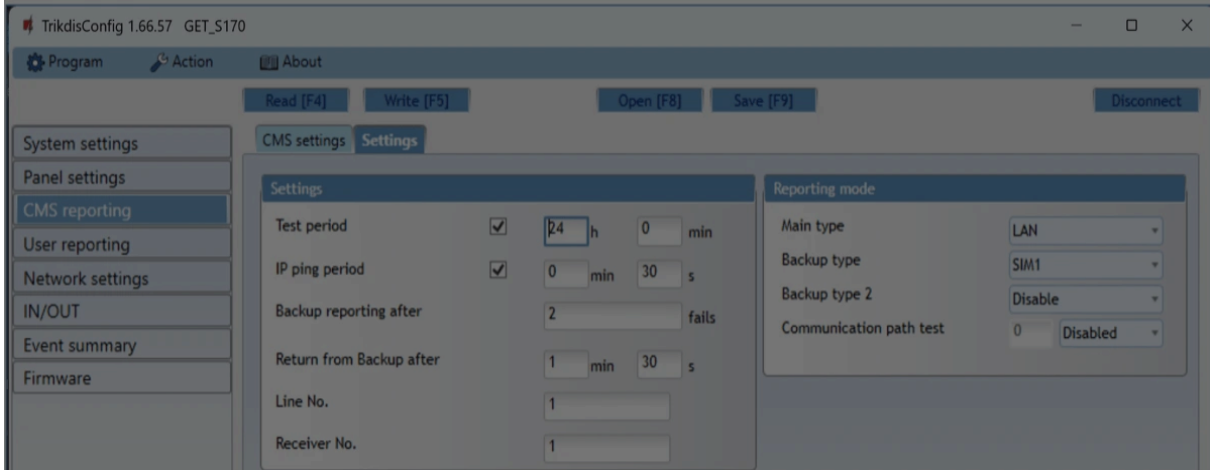
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“Parallel channel” settings group

Events are transmitted in parallel with the primary channel through this channel. When the second channel is enabled, events can be sent simultaneously to two receivers (e.g., local and centralized monitoring stations). Parallel channel settings are the same as described above.



“Settings” tab “Settings” settings group

- **Test period** - TEST event period for testing the connection. Test events are sent as Contact ID messages and forwarded to the monitoring software.
- **IP ping period** – period for sending internal PING heartbeats. These messages are only sent via IP channel. The receiver will not forward PING messages to the monitoring software to avoid overloading it. Notifications will only be sent to the monitoring software if the receiver fails to receive PING messages from the device within the set time.

By default, the “*Connection lost*” notification will be transmitted to the monitoring software if the PING message is not received by the receiver over a time period three times longer than set in the device. E.g. if the PING period is set for 3 minutes, the receiver will transfer the “*Connection lost*” notification if a PING message is not received within 9 minutes.

PING messages keep the active communication session between the device and the

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- **Receiver No.** - enter the receiver number.

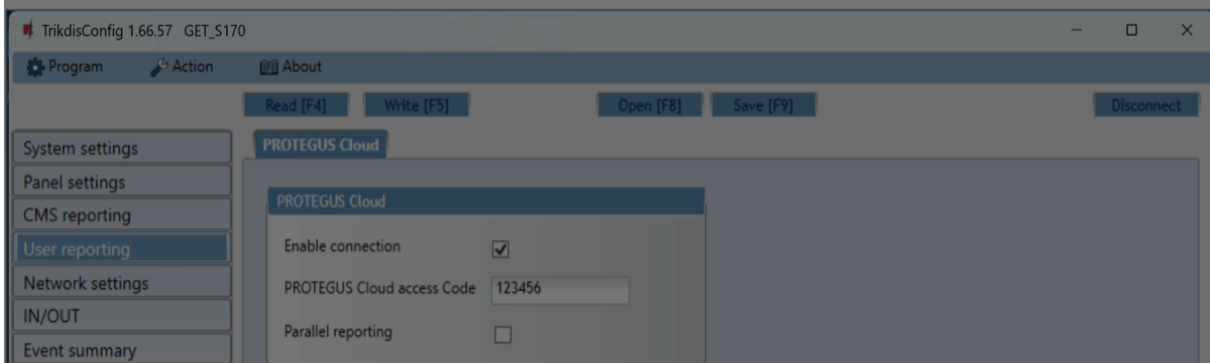
“Reporting mode” settings group

For setting parameters on how the control panel will communicate with the CMS channels and with Protegus2. The connection types are specified in order. If the control panel fails to connect using the “**Main type**” connection , it switches to the “**Backup type**”, and so on. If the backup connection type was successful in transmitting the message to the CMS, then the “**Return to main**” connection type will be attempted after the specified time interval.

- **Main type** – select a connection type (LAN, SIM1, SIM2) with the CMS receiver and Protegus2.
- **Backup type** – select a connection type (LAN, SIM1, SIM2) with the CMS receiver and Protegus2.
- **Backup type 2** – select a connection type (LAN, SIM1, SIM2) with the CMS receiver and Protegus2.
- **Communication path test** – specify the time period for which the selected connection types should be tested (LAN, SIM1, SIM2).

6.5 “User reporting” window

“PROTEGUS cloud” tab



Protegus2 service allows users to remotely monitor and control the communicator. For more

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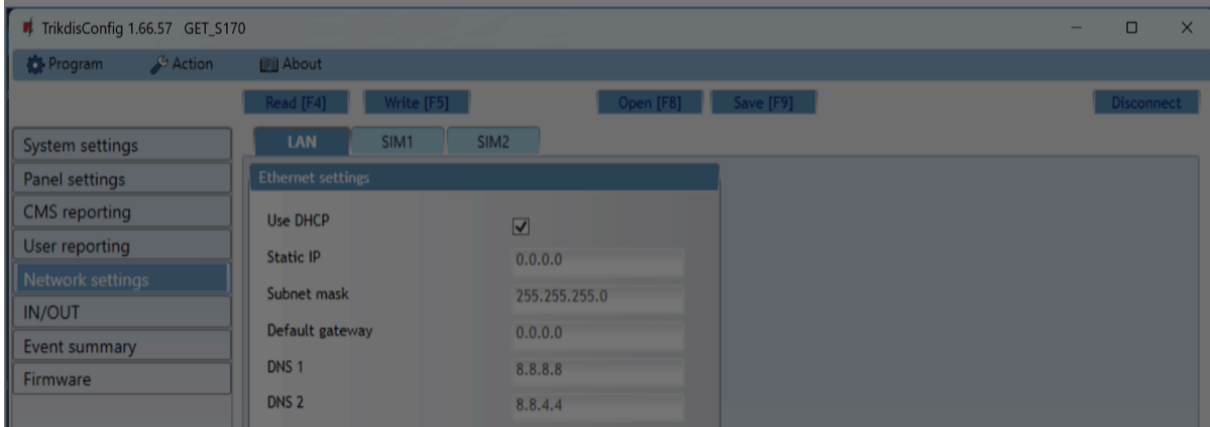
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- **Parallel reporting** – allow parallel report sending using the *primary channel* and to Protegus2. Reports will only be sent to Protegus2 and to users after they've been sent to the security company.

6.6 “Network settings” window

“LAN” tab



These settings must be made if the communicator is connected to a LAN network.

“Ethernet settings” settings group

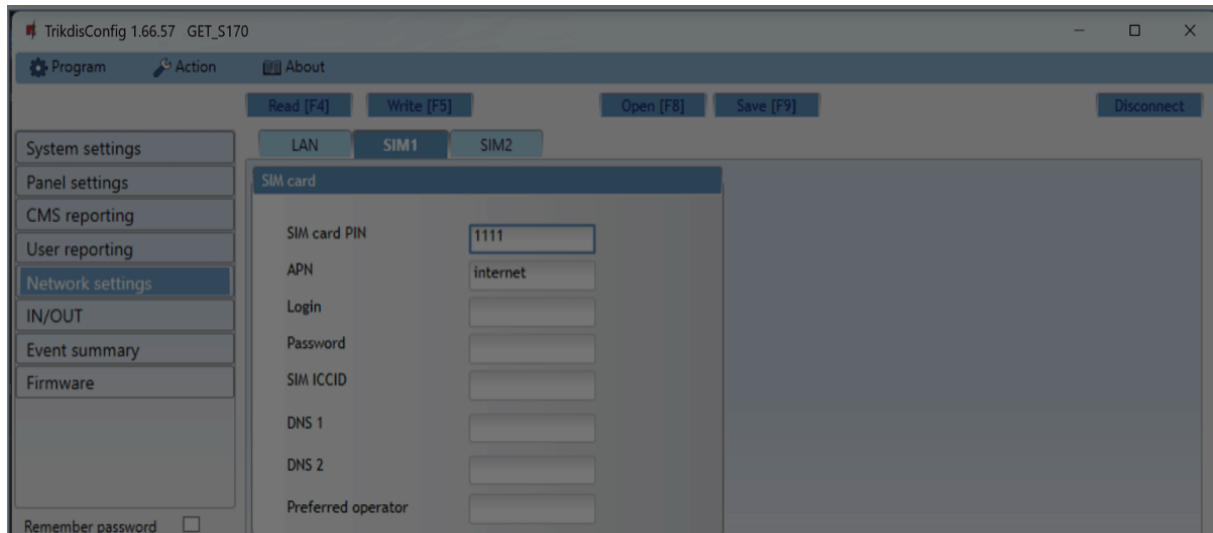
- **Use DHCP** - check the box to have the communicator automatically register to the network. If the auto-register fails, you will need to enter it manually:
- **Static IP** – static IP address for when manual registering mode is set.
- **Subnet mask** – subnet mask for when manual registering mode is set.
- **Default gateway** – gateway address for when manual registering mode is set.
- **DNS1, DNS2** - (Domain Name System) identifies the server that specifies the IP address of the domain. Used when domain is set in the communication channel “**Domain or IP**” field (not IP address). Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**

“SIM1” tab

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These settings must be made if the SIM card is inserted into the SIM1 slot of the communicator.

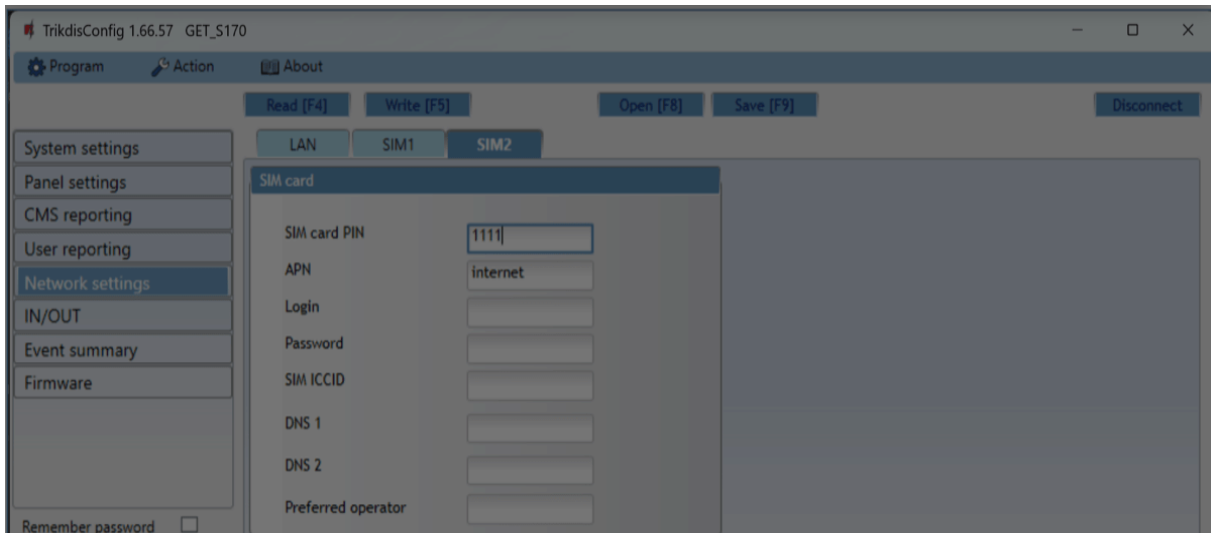
“SIM card” settings group

- **SIM card PIN** - enter the SIM card PIN code. This code can be disabled by inserting the SIM card into a mobile phone and disabling the request. If you disabled the SIM card PIN request, leave the default value in this field.
- **APN** - enter APN (Access Point Name). It is required for connecting the communicator to the internet. APN can be found on the website of the SIM card operator (“internet” is universal and works in the networks of many operators).
- **Login, Password** - if required, enter the user name (login) and password for connection to the internet.
- **SIM ICCID** - enter the ICCID number of the SIM card if you want the communicator to work only with this SIM card.
- **DNS1, DNS2** - (Domain Name System) identifies the server that specifies the IP address of the domain. Used when domain is set in the communication channel Domain or IP field (not IP address). Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**

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These settings must be made if the SIM card is inserted into the SIM2 slot of the communicator.

“SIM card” settings group

- **SIM card PIN** - enter the SIM card PIN code. This code can be disabled by inserting the SIM card into a mobile phone and disabling the request. If you disabled the SIM card PIN request, leave the default value in this field.
- **APN** - enter APN (Access Point Name). It is required for connecting the communicator to the internet. APN can be found on the website of the SIM card operator (“internet” is universal and works in the networks of many operators).
- **Login, Password** - if required, enter the user name (login) and password for connection to the internet.
- **SIM ICCID** - enter the ICCID number of the SIM card if you want the communicator to work only with this SIM card.
- **DNS1, DNS2** - (Domain Name System) identifies the server that specifies the IP address of the domain. Used when domain is set in the communication channel Domain or IP field (not IP address). Google DNS server is set by default. **Regardless of IP settings, make sure the DNS addresses match those supported by your ISP.**

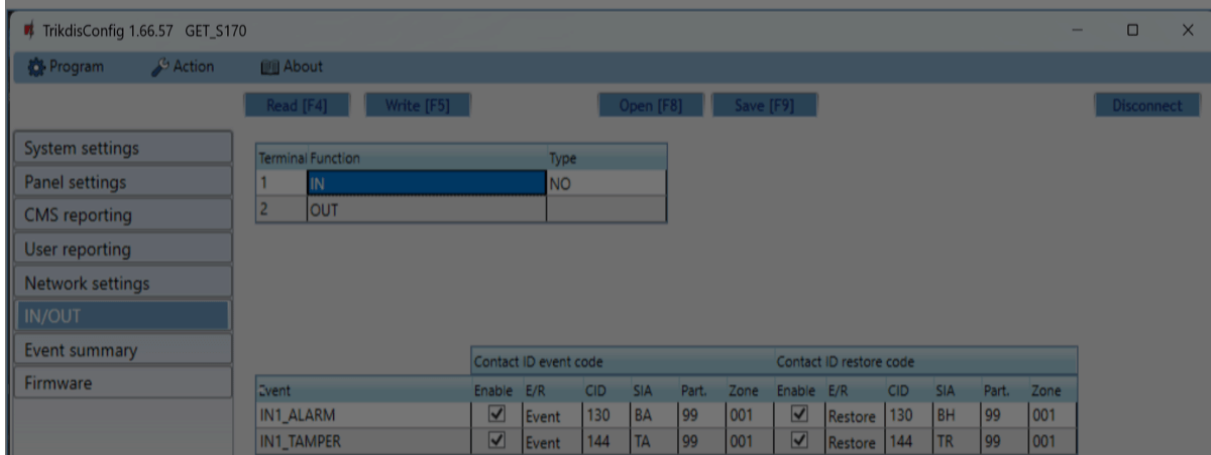
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6.7 "IN/OUT" windows



The communicator has 2 universal (input / output) terminals. The table can set the terminal operating mode (Disabled, IN, OUT). The input must specify the type of circuit to be connected NC, NO, NO / EOL, NC / EOL, NO / DEOL, NC / DEOL.

Additional sensors can be connected to the communicator inputs. When the sensor is triggered, the communicator will send an event message. The input is assigned a Contact ID (SIA) code, which will be sent to CMS and Protegus2.

- **Enable** – checked event fields where messages will be sent to CMS and Protegus2.
- **E/R** – choose what type of event will be sent when input is triggered – **“Event”** or **“Restore”**.
- **CID** – enter the event code or leave the default value. Upon entering the event, the event code will be sent to Protegus2 and CMS.
- **SIA** – enter the event code or leave the default value. Upon entering the event, the event code will be sent to Protegus2 and CMS.
- **Part.** – enter the partition (area) number that will be sent when an internal event occurs and the system is restored.
- **Zone** – enter the zone number that will be sent when an internal event occurs and the system is restored.

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Contact ID event code													
Event	Enable	E/R	CID	SIA	Part.	Zone	Enable	E/R	CID	SIA	Part.	Zone	
COMMUNICATION	<input checked="" type="checkbox"/>	Event	350	YC	99	999	<input checked="" type="checkbox"/>	Restore	350	YK	99	999	
LAN_FAILURE	<input checked="" type="checkbox"/>	Event	358	YC	99	903	<input checked="" type="checkbox"/>	Restore	358	YK	99	903	
POWER	<input checked="" type="checkbox"/>	Event	302	YT	99	999	<input checked="" type="checkbox"/>	Restore	302	YR	99	999	
REMOTE_FINISHED	<input checked="" type="checkbox"/>	Event	412	RS	99	999	<input type="checkbox"/>	Event					
REMOTE_STARTED	<input checked="" type="checkbox"/>	Event	411	RB	99	999	<input type="checkbox"/>	Event					
SIM1_FAILURE	<input checked="" type="checkbox"/>	Event	358	YC	99	901	<input checked="" type="checkbox"/>	Restore	358	YK	99	901	
SIM2_FAILURE	<input checked="" type="checkbox"/>	Event	358	YC	99	905	<input checked="" type="checkbox"/>	Restore	358	YK	99	905	
TEST	<input checked="" type="checkbox"/>	Event	602	RP	99	999	<input type="checkbox"/>	Event					

- **COMMUNICATION** – message about connection error between the control panel and communicator.
- **LAN_FAILURE** - LAN communication failure message.
- **POWER** – message about low power supply voltage.
- **REMOTE_FINISHED** – message about disconnection from remote configuration with TrikdisConfig.
- **REMOTE_STARTED** – message about remote connection to configure GET with TrikdisConfig.
- **SIM1_FAILURE** - mobile communication failure message.
- **SIM2_FAILURE** - mobile communication failure message.
- **TEST** – periodic test message.

NOTE

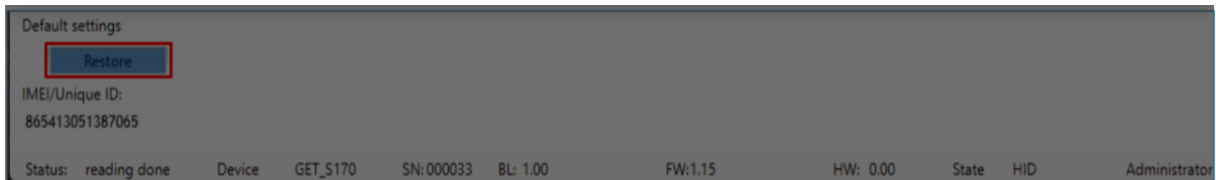
To enable periodic TEST messages and set their period, go to "**CMS reporting**" -> "**Settings**" -> "**Test period**".

- **Enable** – when selected, the sending of messages is enabled.

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Another way to restore factory settings.

Power supply is connected to the communicator. Press and hold the "RESET" button on the communicator PCB board. Hold the "RESET" button pressed for 10 seconds until the LED indicators ("NETWORK", "POWER", "TROUBLE") turn off and the LED "POWER" indicator lights up. Release the "RESET" button. The communicator's factory settings have been restored.

7. Remote configuration

IMPORTANT

Remote configuration will work only if:

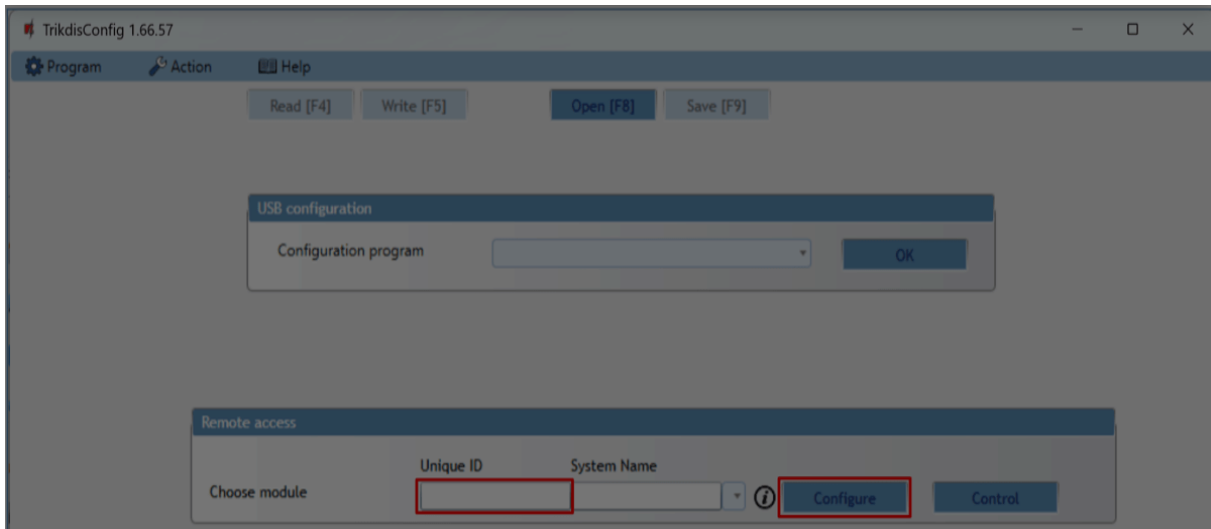
1. The inserted SIM card is activated and the PIN code is either entered or disabled;
2. Or a LAN cable is connected.
3. "Protegeus cloud" is enabled. How to enable cloud is described in section 6.5 "User reporting" window;
4. Power supply is connected ("POWER" LED illuminates green);
5. Registered to the cellular network ("NETWORK LTE" LED illuminates green and blinks yellow).

1. Start the configuration program TrikdisConfig.
2. In the "**Remote access**" section enter the communicator's "**IMEI/Unique ID**" number. This number can be found on the device and the packaging sticker.

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3. (Optional) in the **“System name”** field, enter the desired name for the communicator with this Unique ID.
4. Press **“Configure”**.
5. In the newly opened window click **Read [F4]**. If required, enter the administrator or installer code. To save the password, select **“Remember password”**.
6. Set the necessary settings and when finished, click **Write [F5]**.

8. Test communicator performance

When the configuration and installation is complete, perform a system check:

1. Generate an event:
 - by arming/disarming the system with the control panel’s keypad;
 - by triggering a zone alarm when the security system is armed.

1. Make sure that the event arrives to the CMS (Central Monitoring Station) and/or is received in the Protegus2 application.

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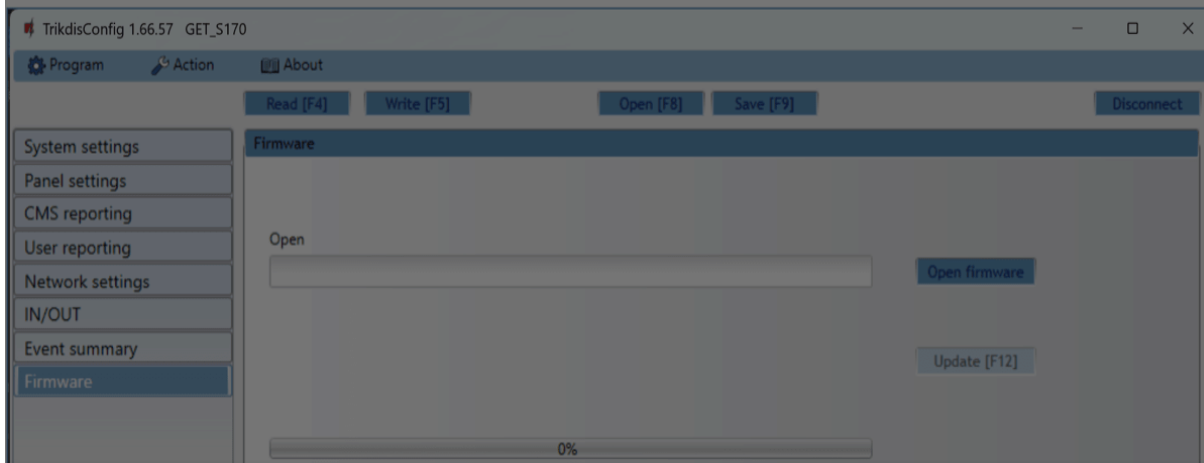
9. Firmware update

NOTE

When the communicator is connected to TrikdisConfig, the program will automatically offer to update the device's firmware if updates are present. Updates require an internet connection. Antivirus software, firewall or strict access to internet settings can block the automatic firmware updates. In this case, you will need to reconfigure your antivirus program.

The communicator's firmware can also be updated or changed manually. After an update, all previously set settings will remain unchanged. When writing firmware manually, it can be changed to a newer or older version. To update:

1. Run ***TrikdisConfig***.
2. Connect the communicator via USB cable to the computer or connect to the communicator remotely.
 - If a newer firmware version exists, the software will offer to download the newer firmware version file.
3. Select the menu branch "**Firmware**".



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Prior to installation, please read this manual carefully in order to avoid mistakes that can lead to malfunction or even damage to the equipment.

Disconnect the power supply before making any electrical connections.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.



Please act according to your local rules and do not dispose of your unusable alarm system or its components with other household waste.

II. Annex

The communicator converts Contact ID codes received from the alarm control panel into SIA codes.

Contact ID to SIA code conversion table

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System Event	CID Report Code	SIA Report Code
Medical alarm	E100	"MA"
Personal emergency	E101	"QA"
Fire in zone:	E110	"FA"
Water flow detected in zone:	E113	"SA"
Pull station alarm in zone:	E115	"FA"
Panic in zone:	E120	"PA"
Panic alarm by user:	E121	"HA"
Panic alarm in zone:	E122	"PA"
Panic alarm in zone:	E123	"PA"
Panic alarm in zone:	E124	"HA"
Panic alarm in zone:	E125	"HA"
Alarm active in zone:	E130	"BA"
Alarm active in zone:	E131	"BA"
Alarm active in zone:	E132	"BA"
Alarm active in zone:	E133	"BA"
Alarm active in zone:	E134	"BA"
Alarm active in zone:	E135	"BA"
Tamper active in zone:	E137	"TA"
Intrusion verified in zone:	E139	"BV"
Alarm active in zone:	E140	"UA"
System failure (143)	E143	"ET"
Tamper active in zone:	E144	"TA"
Tamper active in zone:	E145	"TA"
Alarm active in zone:	E146	"BA"
Alarm active in zone:	E150	"UA"
Gas detected in zone:	E151	"GA"
Water leakage detected in zone:	E154	"WA"
Foil break detected in zone:	E155	"BA"
High temperature at sensor:	E158	"KA"
Low temperature at sensor:	E159	"ZA"

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System Event	CID Report Code	SIA Report Code
System shutdown	E308	"RR"
Battery failure (309)	E309	"YT"
Ground fault	E310	"US"
Battery failure (311)	E311	"YM"
Power supply overcurrent (312)	E312	"YP"
Engineer reset by user: (313)	E313	"RR"
Sounder/Relay failure	E320	"RC"
System failure (321)	E321	"YA"
System failure (330)	E330	"ET"
System failure (332)	E332	"ET"
System failure (333)	E333	"ET"
System failure (336)	E336	"VT"
System failure (338)	E338	"ET"
System failure (341)	E341	"ET"
System failure (342)	E342	"ET"
System failure (343)	E343	"ET"
System failure (344)	E344	"XQ"
System communication failure (350)	E350	"YC"
System communication failure (351)	E351	"LT"
System communication failure (352)	E352	"LT"
System failure (353)	E353	"YC"
System communication failure (354)	E354	"YC"
System failure (355)	E355	"UT"
Fire trouble in zone:	E373	"FT"
Trouble in zone:	E374	"EE"
Trouble in zone:	E378	"BG"
Trouble in zone:	E380	"UT"
Wireless zone fault:	E381	"US"

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System Event	CID Report Code	SIA Report Code
Deferred disarm user	E405	"OR"
Alarm cancelled by user:	E406	"BC"
User disarmed remotely	E407	"OP"
Quick disarm	E408	"OP"
Remote disarm	E409	"OS"
Call back request made by CMS	E411	"RB"
Successful data download	E412	"RS"
Entry access denied for user	E421	"JA"
Entry by user	E422	"DG"
Forced Access zone	E423	"DF"
Exit access denied for user	E424	"DD"
Exit by user	E425	"DR"
User disarmed too early	E451	"OK"
User armed too late	E452	"OJ"
User Failed to Disarm	E453	"CT"
User Failed to Arm	E454	"CI"
Auto arm failed	E455	"CI"
Partial arm by user:	E456	"CG"
Exit violation by user:	E457	"EE"
System disarmed after alarm by user:	E458	"OR"
Recent arm user	E459	"CR"
Wrong code entered	E461	"JA"
Auto-arm time extended by user:	E464	"CE"
Device disabled (501)	E501	"RL"
Device disabled (520)	E520	"RO"
Wireless sensor disabled in zone: (552)	E552	"YS"
Zone bypassed	E570	"UB"
Zone bypassed	E571	"FB"
Zone bypassed	E572	"MB"

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System Event	CID Report Code	SIA Report Code
System event (605)	E605	"JL"
System event (606)	E606	"LF"
Periodic test report with trouble	E608	"RY"
System event (622)	E622	"JL"
System event (623)	E623	"JL"
Time/Date was reset by user	E625	"JT"
Inaccurate Time/Date	E626	"JT"
System programming started	E627	"LB"
System programming finished	E628	"LS"
System event (631)	E631	"JS"
System event (632)	E632	"JS"
System not active (654)	E654	"CD"
Medical alarm restored	R100	"MH"
Personal emergency restored	R101	"QH"
No more fire alarm in zone :	R110	"FH"
No more water flow alarm in zone:	R113	"SH"
Panic alarm restored in zone:	R120	"PH"
Panic alarm cancelled by user:	R121	"HH"
Panic alarm restored in zone:	R122	"PH"
Panic alarm restored in zone:	R123	"PH"
Panic alarm restored in zone:	R124	"HH"
Panic alarm restored in zone:	R125	"HH"
No more alarm in zone:	R130	"BH"
No more alarm in zone:	R131	"BH"
No more alarm in zone:	R132	"BH"
No more alarm in zone:	R133	"BH"
No more alarm in zone:	R134	"BH"
No more alarm in zone:	R135	"BH"
No more tamper in zone:	R137	"TA"

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System Event	CID Report Code	SIA Report Code
Foil break restored in zone:	R155	"BH"
Temperature has normalized at sensor:	R158	"KH"
Temperature has normalized at sensor:	R159	"ZH"
No more CO alarm in zone:	R162	"GH"
No more fire failure in zone:	R200	"FV"
Monitored restore alarm	R220	"BH"
No more system failure (300)	R300	"YA"
AC power supply OK	R301	"AR"
Battery OK	R302	"YR"
No more system failure (304)	R304	"YG"
System reset restored in zone:	R305	"RR"
No more battery failure (309)	R309	"YR"
Restore ground fault	R310	"UR"
No more battery failure (311)	R311	"YR"
Restore power supply overcurrent (312)	R312	"YQ"
No more sounder/Relay failure	R320	"RO"
No more system failure (321)	R321	"YH"
No more system failure (330)	R330	"ER"
No more system failure (332)	R332	"ER"
No more system failure (333)	R333	"ER"
No more system failure (336)	R336	"VR"
No more system failure (338)	R338	"ER"
No more system failure (341)	R341	"ER"
No more system failure (342)	R342	"ER"
No more system failure (344)	R344	"XH"
No more system communication failure (350)	R350	"YK"
No more system communication failure (351)	R351	"LR"
No more system	R352	"LR"

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System Event	CID Report Code	SIA Report Code
No more wireless module failure (382)	R382	"BR"
No more tamper in zone:	R383	"TR"
Battery OK in wireless zone:	R384	"XR"
No more trouble in zone: (391)	R391	"NS"
No more trouble in zone: (393)	R393	"NS"
User armed the system	R400	"CL"
User armed the system	R401	"CL"
Automatic arm	R403	"CA"
User armed remotely	R407	"CL"
Quick arm	R408	"CL"
Remote arm	R409	"CS"
User armed to Stay mode	R441	"CG"
User armed too early	R451	"CK"
User disarmed too late	R452	"CJ"
User Failed to Disarm	R454	"CI"
Partial Arm by user:	R456	"CG"
Recent disarm user	R459	"CR"
Device enabled (501)	R501	"RG"
Device enabled (520)	R520	"RC"
Wireless sensor enabled in zone: (552)	R552	"YK"
Zone bypass cancelled	R570	"UU"
Zone bypass cancelled	R571	"FU"
Zone bypass cancelled	R572	"MU"
Zone bypass cancelled	R573	"BU"
Group bypass by user: cancelled	R574	"CF"
Zone bypass cancelled	R576	"UU"
Zone bypass cancelled	R577	"UU"
Vent zone bypass cancelled	R579	"UU"
Walk test deactivated by user	R607	"TF"

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