





3G, 4G

# Cellular communicator G16 Installation manual

July, 2024



#### **Contents**

1	DES	CCRIPTION	4			
	1.1	List of compatible control panels	5			
	1.2	Communicator model types	5			
	1.3	Specifications	5			
	1.4	Communicator elements	6			
	1.5	Purpose of terminals	6			
	1.6	LED indication of operation	7			
	1.7	Structural schematic with G16 usage	8			
2	Qui	QUICK CONFIGURATION WITH TRIKDISCONFIG SOFTWARE				
	2.1	Settings for connection with Protegus2 app	9			
	2.2	Settings for connection with Central Monitoring Station	10			
3	Inst	TALLATION AND WIRING	12			
	3.1	Installation process	12			
	3.2	Schematics for wiring the communicator to a security control panel	13			
	3.3	Schematic for connecting to panel keyswitch zone	14			
	3.4	Schematics for input connection	15			
	3.5	Schematics for wiring a relay	15			
	3.6	Schematics for connecting iO-8 expansion modules (only for 3G/4G communicators)	16			
	3.7	Schematic for connecting the W485 WiFi module (only for 3G/4G communicators)	16			
	3.8	Schematic for connecting the E485 "Ethernet" module (only for 3G/4G communicators)	16			
	3.9	Turn on the communicator	16			
4	Pro	OGRAMMING THE CONTROL PANEL	17			
5	REM	NOTE CONTROL	19			
	5.1	Adding the security system to Protegus2 app	19			
	5.2	Additional settings to arm/disarm the system using the control panel's keyswitch zone				
	5.3	Arming/disarming the alarm system with Protegus2	21			
	5.4	Configuration and control with SMS messages	21			
6	Trik	KDISCONFIG WINDOW DESCRIPTION	22			
	6.1	TrikdisConfig status bar description	22			
	6.2	"System settings" window	22			
	6.3	"CMS reporting" window	23			
	6.4	"User reporting" window	25			
	6.5	"SIM card" window	27			
	6.6	"IN/OUT" windows	27			
	6.7	"RS485 modules" window (only for 3G/4G communicators)	28			
	6.8	"Event summary" window	30			
	6.9	Restoring factory settings	31			
7	REM	NOTE CONFIGURATION	31			
8	TEST	TEST COMMUNICATOR PERFORMANCE				
9	FIRM	MWARE UPDATE	32			
10	Ann	NEX	Annex			



#### **Safety requirements**

The communicator should be installed and maintained by qualified personnel.

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.



#### 1 Description

Cellular communicator *G16* directly connects to supported DSC, Paradox, UTC Interlogix (CADDX), Innerrange, Texecom, Honeywell, Crow and Pyronix alarm panels.

Communicator transmits full event information to the Central Monitoring Station.

Communicator also works with *Protegus2* application. With *Protegus2* users can control their alarm system remotely and get notifications about security system events. *Protegus2* app is compatible with all security alarm panels from various manufacturers that are supported by the *G16* communicator. Communicator can transmit event notifications to the Central Monitoring Station and work with *Protegus2* simultaneously.

Communicator *G16* can connect directly to DSC®, Paradox®, UTC Interlogix® (CADDX), Innerrange®, Texecom®, Honeywell®, Crow® and Pyronix® control panels. For panels from other manufacturers use the *G16T* communicator.

#### **Features**

#### 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.
- Connection supervision by polling to IP receiver every 30 seconds (or by user defined period).
- Backup channel, that will be used if connection with the primary channel is lost.
- Events can be reported to CMS with SMS messages. SMS will be sent even if data connection stops working in the mobile operator network.
- With parallel communication channels events can be sent to two receivers at same time.
- When *Protegus* 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.
- Users can also be informed about events with SMS messages and phone calls.

#### **Notifies users:**

Users can be notified about events not only with Protegus2 app, but also with SMS messages and a call.

#### **Controllable outputs and inputs:**

- 3 double I/O terminals that can be set either as input (IN) or controllable output (OUT) terminals.
- Outputs controlled by the *Protegus2* app and SMS.
- Add additional inputs and controllable outputs with iO-8 expanders. (only for 3G/4G communicators).

#### 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.





#### 1.1 List of compatible control panels

Manufacturer	Model
DSC®	PC585, PC1404, PC1565, PC1616, PC1832, PC1864, PC5015, PC5020
PARADOX®	SPECTRA SP4000, SP5500, SP6000, SP7000, SP65, SP5500+, SP6000+, SP7000+
	MAGELLAN MG5000, MG5050, MG5050E, MG5050+
	DIGIPLEX EVO192, EVOHD, NE96, EVO48, EVO96
	SPECTRA 1727, 1728, 1738
	ESPRIT E55, 728ULT, 738ULT
UTC Interlogix®	NetworX (Caddx) NX-4v2, NX-6v2, NX-8v2, NX-8e
Texecom®	Premier 412, 816, 832, 832+
	<u>Premier 24</u> , <u>48</u> , <u>88</u> , <u>168</u>
	<u>Premier Elite 12, 24, 48, 64, 88, 168</u>
Pyronix <sup>®</sup>	MATRIX 424, MATRIX 832, MATRIX 832+, MATRIX 6, MATRIX 816
Innerrange®	Inception, Integriti
Honeywell®	Ademco Vista-15, Ademco Vista-20, Ademco Vista-48
Crow <sup>®</sup>	Runner 4/8, Runner 8/16

<u>Underlined</u> - Control panels directly controlled by *G16.* Firmware PARADOX security panels, which are directly controlled, must be V.4 or higher.

#### 1.2 Communicator model types

This manual is for 2G/3G/4G communicators.

#### 1.3 Specifications

Parameter	Description
Dual purpose terminals [IN/OUT]	3, can be set as either NC; NO; NC/EOL; NO/EOL; NC/DEOL; NO/DEOL (2,2 k $\Omega$ ) type inputs or open collector (OC) type outputs with current up to 0,15 A, 30 VDC max.
	Expandable with iO-8 expanders. (only for 3G/4G communicators)
LTE FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
LTE TDD	B38/B39/B40/B41
UMTS	B1/B2/B4/B5/B6/B8/B19
GSM	850/900/1800/1900 MHz
Power supply voltage	10-18 V DC
Current consumption	60-100 mA (on standby)
	Up to 500 mA (while sending data)
Transmission protocols	TRK, DC-09_2007, DC-09_2012, TL150
Message encryption	AES 128
Changing settings	With <i>TrikdisConfig</i> computer program remotely or locally via USB Mini-B port
	Remotely with SMS messages
Operating environment	Temperature from -10 °C to 50 °C, relative humidity - up to 80% at +20 °C

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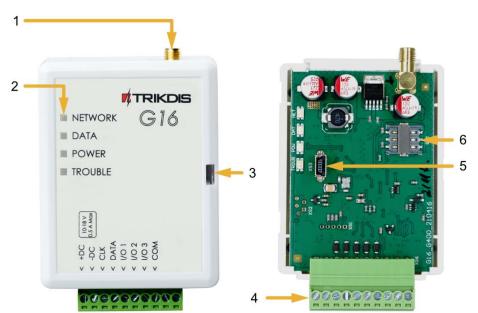
<sup>\*</sup>Connect control panels from other manufacturers to the *G16T* communicator.



Parameter	Description
Communicator dimensions	92 x 62 x 26 mm
Weight	80 g

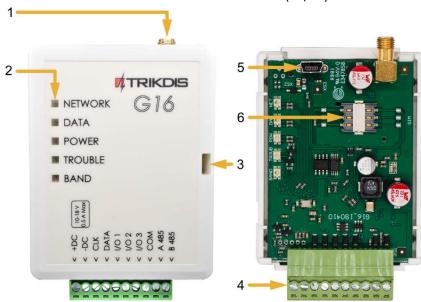
#### 1.4 Communicator elements

Cellular communicator G16 (2G)



- Cellular antenna SMA connector
- 2. Light indicators
- 3. Frontal case opening slot
- 4. Terminal for external connections
- 5. USB Mini-B port for communicator programming
- 6. SIM card slot





#### 1.5 Purpose of terminals

Terminal	Description
+DC	+10 V/+18 V power supply
-DC	+10 V/+18 V power supply
CLK	Serial bus terminals for direct connection to control panel

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Terminal	Description
DATA	
I/O 1	1 <sup>st</sup> input/output terminal (default setting – OFF)
1/0 2	2 <sup>nd</sup> input/output terminal (default setting – IN, NO circuit)
1/0 3	3 <sup>rd</sup> input/output terminal (default setting – OUT)
COM	Common (negative) terminal
A 485	RS485 bus A contact (only for 3G/4G communicators)
B 485	RS485 bus B contact (only for 3G/4G communicators)

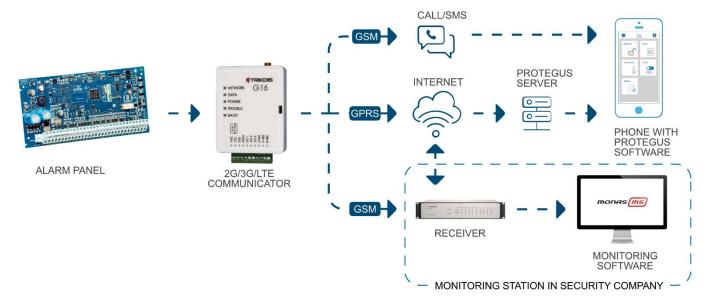
# 1.6 LED indication of operation

Indicator	Light status	Description
NETWORK	Off	No connection to cellular network
	Yellow blinking	Connecting to cellular network
	Green solid with yellow blinking	Communicator is connected to cellular network.  Sufficient cellular signal strength for 2G is level 5 (five yellow flashes) and for 3G/4G level 3 (three yellow flashes)
DATA	Off	No unsent events
	Green solid	Unsent events are stored in buffer
	Green blinking	(Configuration mode) Data is being transferred to/from communicator
POWER	Off	Power supply is off or disconnected
	Green solid	Power supply is on with sufficient voltage
	Yellow solid	Power supply voltage is insufficient (≤11.5V)
	Green solid and yellow blinking	(Configuration mode) Communicator is ready for configuration
	Yellow solid	(Configuration mode) No connection with computer
TROUBLE	OFF	No operation problems
	1 red blink	SIM card not found
	2 red blinks	SIM card PIN code problem (incorrect PIN code)
	3 red blinks	Programming problem (No APN)
	4 red blinks	Registration to GSM network problem
	5 red blinks	Registration to GPRS/UMTS network problem
	6 red blinks	No connection with the receiver
	7 red blinks	Lost connection with control panel
	Red blinking	(Configuration mode) Memory fault
	Red solid	(Configuration mode) Firmware is corrupted
BAND	1 green blink	None
(only for 3G/4G communicators)	2 green blinks	GSM
communicators)	3 green blinks	GPRS

www.trikdis.com 7 July, 2024

Indicator	Light status	Description
	4 green blinks	EDGE
	5 green blinks	HSDPA, HSUPA, HSPA+, WCDMA
	6 green blinks	LTE TDD, LTE FDD

#### 1.7 Structural schematic with G16 usage



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

- 1. USB cable (Mini-B type) 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 <a href="www.trikdis.com">www.trikdis.com</a> (type "TrikdisConfig" in the search field) and install it.
- 2. Open the casing of the G16 with a flat-head screwdriver as shown below:



3. Using a USB Mini-B cable connect the *G16* 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 Alarm Receiving Center and to allow the security system to be controlled with the **Protegus2** app.

#### 2.1 Settings for connection with Protegus2 app

#### In "System settings" window:



- 1. Select **Panel type** that will be connected to the communicator.
- 2. 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.
- 3. 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 "Programming the control panel". In this section you will find information on how to change the PC download/UDL password.

#### In "User reporting" window, "PROTEGUS Cloud" tab:



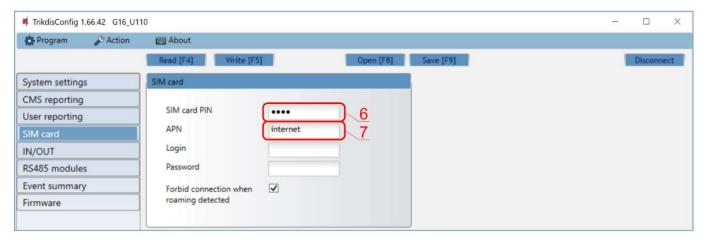
- 4. Tick the checkbox **Enable connection** to the **Protegus** Cloud.
- 5. Change the **PROTEGUS Cloud access Code** for logging in to *Protegus2* if you want users to be asked to enter it when adding the system to *Protegus2* app (default password 123456).

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#### In "SIM card" window:



- 6. Enter SIM card PIN code.
- 7. Change **APN** name. **APN** can be found on the website of the SIM card operator ("internet" is universal and works in many operator networks).

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

Note: For more information about other *G16* settings in *TrikdisConfig*, see chapter **6 "TrikdisConfig window description"**.

#### 2.2 Settings for connection with Central Monitoring Station

#### In "System settings" window:

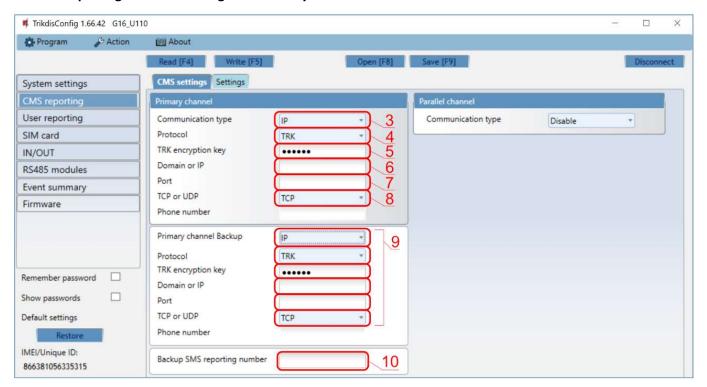


- 1. Enter **Object ID** (account) number provided by the Central Monitoring Station (4 characters, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).
- 2. Select **Security panel model** that will be connected to the communicator.

www.trikdis.com 10 July, 2024



#### In "CMS reporting" window settings for "Primary channel":



- 3. Communication type select the IP connection method (We do not recommend SMS as the primary channel).
- Protocol select the protocol type for event messages: TRK (to TRIKDIS receivers), DC-09\_2007 or DC-09\_2012 (to universal receivers), TL150 (to SUR-GUARD receivers).
- 5. **TRK encryption key** enter the encryption key that is set in the receiver.
- 6. **Domain or IP** enter the receiver's Domain or IP address.
- 7. **Port** enter receiver's network port number.
- 8. TCP or UDP choose event transmission protocol (TCP or UDP) in which events should be sent.

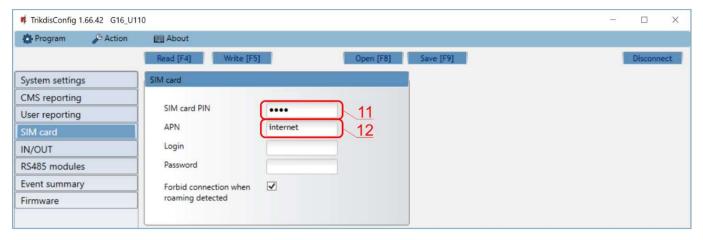
Note:

If you want to set communication with CMS via **SMS** messages, you only need to set **Encryption key** and **Phone number**. SMS messages can be received only by TRIKDIS receivers: IP/SMS receiver RL14, multichannel receiver RM14 and SMS receiver GM14.

If you selected the **DC-09** protocol, additionally enter object, line and receiver numbers in the **Settings** tab of the **CMS reporting** window.

- 9. (Recommended) Configure Primary channel Backup settings.
- 10. (Recommended) Enter Backup SMS reporting number.

#### In "SIM card" window:



www.trikdis.com 11 July, 2024



- 11. Enter SIM card PIN code.
- 12. 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).

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

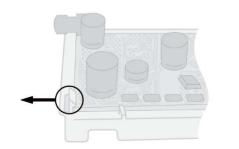
Note:

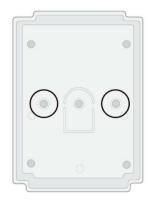
For more information about other *G16* settings in *TrikdisConfig*, see chapter 6 "TrikdisConfig window description".

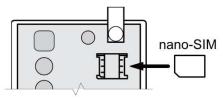
#### 3 Installation and wiring

#### 3.1 Installation process

- 1. Remove the top cover and pull out the contact terminal.
- 2. Insert SIM card into the holder.
- 3. Remove the PCB board from the bottom part of the case.
- 4. Fix the bottom part to a suitable place with screws.
- 5. Place the PCB board back into case, insert contact terminal.
- 6. Screw cellular antenna on.
- 7. Close the top cover.







Note:

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.



#### Schematics for wiring the communicator to a security control panel

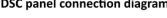
Following one of the schematics provided below, connect communicator to the control panel.

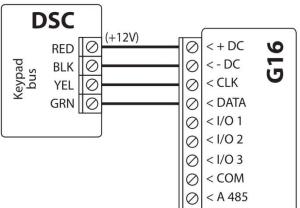
< B 485

0

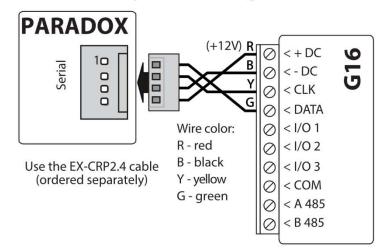
#### 1. Schemes for connecting to the security control panels:

#### DSC panel connection diagram

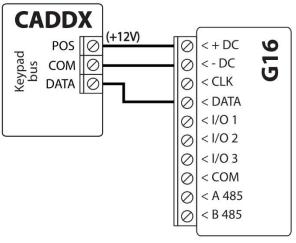




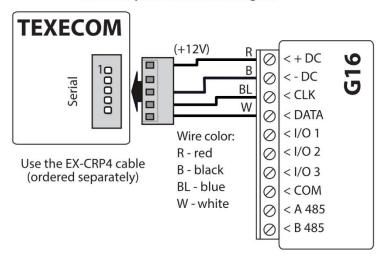
**PARADOX** panel connection diagram



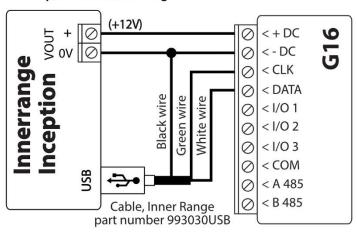
**CADDX** panel connection diagram



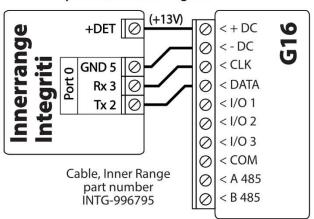
**TEXECOM** panel connection diagram



**INNERRANGE INCEPTION** panel connection diagram



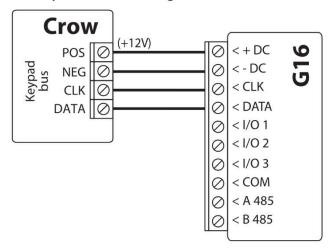
**INNERRANGE INTEGRITI** panel connection diagram



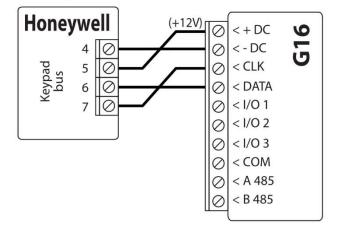
13 July, 2024 www.trikdis.com



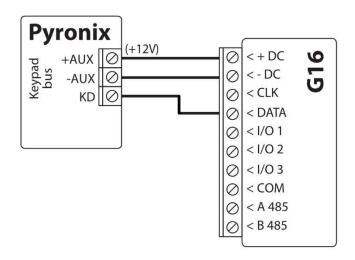
# Crow Runner 4/8, Runner 8/16 panel connection diagram



# Honeywell Vista-15, Vista-20, Vista-48 panel connection diagram



#### Pyronix panel connection diagram

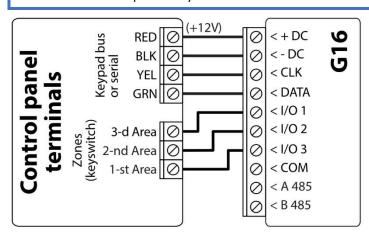


#### 3.3 Schematic for connecting to panel keyswitch zone

Follow this schematic if the control panel will be armed/disarmed with a *G16* PGM output turning on/off the panel's keyswitch zone.

Note:

**G16** communicator has 3 universal input / output terminals that can be set to the OUT (PGM) operating mode. The outputs (OUT) can control three areas of the security system. If you want to control the system in this way, in *TrikdisConfig*, in the "System settings" window, uncheck Remote Arm/Disarm. The *Protegus2* apps must be configured with the settings described in chapter 5.2 "Additional settings to arm/disarm the system using the control panel's keyswitch zone".



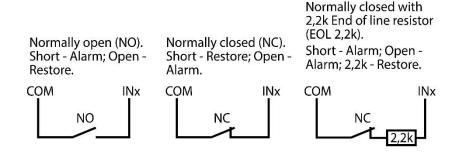
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#### **Schematics for input connection**

The communicator has 3 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. Default I/O 2 input setting – NO. 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:

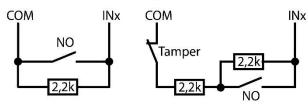


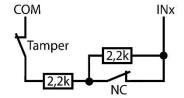
Normally open with 2,2k End of line resistor (EOL 2,2k).

Short - Alarm; Open -Alarm; 2,2k - Restore. Normally open with 2,2k End of line resistor and tamper recognition (DEOL). Short - Tamper; Open -

Tamper; 2,2k - Alarm; 3,3k-5,5k - Restore.

Normally closed with 2,2k End of line resistor and tamper recognition (DEOL)... Short - Tamper; Open -Tamper; 2,2k - Restore; 3,3k-5,5k - Alarm.



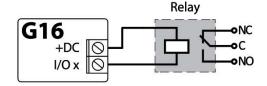


Note:

If more inputs or outputs need to be connected to the communicator, connect the TRIKDIS iO-8 expander. Connection method is described in the iO-8 manual and chapter 3.6 "Schematics for connecting iO-8 expansion modules". (only for 3G/4G communicators)

#### Schematics for wiring a relay 3.5

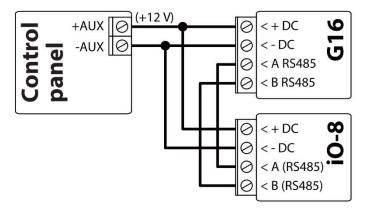
With relay contacts you can control (turn on/off) various electronic appliances. The I/O terminal of the communicator must be set to an output (OUT) mode.





#### 3.6 Schematics for connecting iO-8 expansion modules (only for 3G/4G communicators)

If more inputs or outputs need to be connected to the communicator connect the TRIKDIS *iO-8* expander. Configuration of expander modules connected to the *G16* is described in chapter 6.7. ""RS485 modules" window".

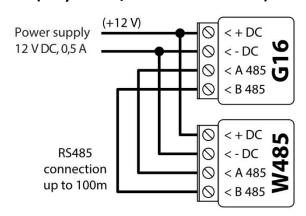


#### 3.7 Schematic for connecting the W485 WiFi module (only for 3G/4G communicators)

The **W485** module sends messages to the CMS (Central Monitoring Station) and to **Protegus2** using a WiFi internet router. When WiFi connectivity is available, the **G16** sends event messages via the **W485** module. When WiFi connectivity is disrupted, the **G16** sends messages via GPRS. When WiFi connectivity is re-established, the **G16** returns to sending messages via **W485**.

Configuration of the *W485* WiFi module to work with the *G16* is described in chapter 6.7. ""RS485 modules" window".

Insert SIM card into the communicator G16 for W485 to work.

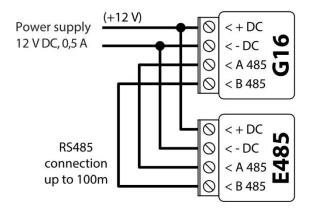


# 3.8 Schematic for connecting the E485 "Ethernet" module (only for 3G/4G communicators)

The *E485* sends messages to the CMS (Central Monitoring Station) and to *Protegus2* using a wired internet connection. Using the *E485* with *G16*, CSP and *Protegus2* messages are sent over wired Internet and mobile Internet is not used. If a wired internet connectivity is disrupted, the *G16* sends messages via the mobile Internet. When the wired Internet connectivity is re-established, *G16* starts sending messages via *E485*.

Configuration of the *E485* WiFi module to work with the *G16* is described in chapter 6.7. ""RS485 modules" window".

Insert SIM card into the communicator G16 for E485 to work.



#### 3.9 Turn on the communicator

To start the communicator, turn on the security control panel's power supply. This LED indication on the *G16* communicator must show:

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

**Note:** Sufficient strength of 2G signal is level five (five "NETWORK" indicator flashes in yellow color). Sufficient strength of 3G, 4G signal is level three (three "NETWORK" indicator flashes in yellow color).

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If you count less yellow "NETWORK" 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 **G16** indication does not illuminate at all, check the power supply and connections.

#### 4 Programming the control panel

Below it is described how to program the security control panel so that the *G16* 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 **"System settings"**.

DSC

DSC panels do not need to be programmed.

#### **PARADOX**

Paradox control panels need to be programmed only for direct control with *Protegus*. You do not need to program Paradox panels for reading events.

For remote control of Paradox panels, you need to set up a PC download password. This password must match the password which was set in the *TrikdisConfig* window "System settings", when the checkbox next to Remote Arm/Disarm was selected.

To set this password, with the keyboard connected to the security control panel:

- 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.

#### **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 "System 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 **G16** communicator's **PC login** password).
- 4. Press [Yes] and leave the programming mode by pressing [Menu].

#### 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.

Position	Segment	Setting
23	3	12345678
37 (not necessary)	3	12345678
	4	1234567*
90	3	12345678

www.trikdis.com 17 July, 2024



Position	Segment	Setting
93	3	12345678
96	3	12345678
99	3	12345678
102	3	12345678
105	3	12345678
108	3	12345678

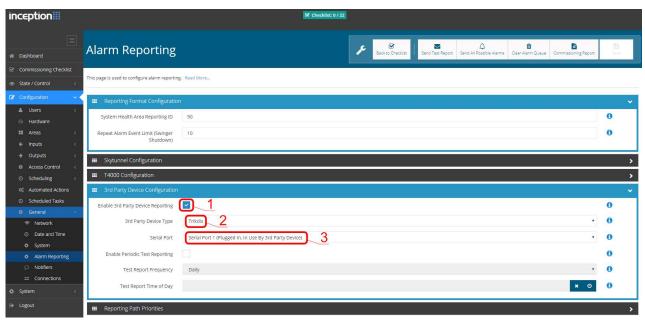
After having programmed all the fields listed, press [Exit] twice to exit the programming mode.

#### **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: <a href="https://skytunnel.com.au/inception/SERIALNUMBER">https://skytunnel.com.au/inception/SERIALNUMBER</a>, 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:



- 1. **Enable 3rd Party Device Reporting** select this checkbox.
- 2. 3rd Party Device Type set "Trikdis".
- 3. Serial port set "Serial Port 1 (Plugged In, In Use By 3rd Party Device)".
- 4. Save settings and exit the application.

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

#### 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][#] .



Crow

There is no need to program Crow Runner 4/8 and Runner 8/16 panels.

#### 5 Remote control

#### 5.1 Adding the security system to Protegus2 app

With *Protegus2* users will be able to control their alarm system remotely. They will see the status of the system and receive notifications about system events.

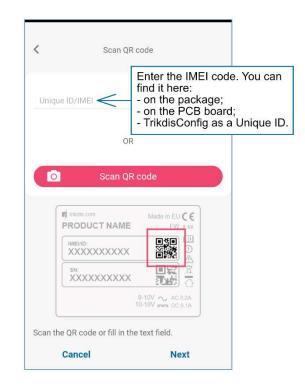
1. Download and launch the *Protegus2* application or use the browser version: www.protegus.eu/login.



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

**Important:** When adding the *G16* to *Protegus2* check if:

- 1. The inserted SIM card is activated and the PIN code is either entered or disabled;
- 2. Protegus cloud is enabled. See chapter 6.4 "User reporting" window;
- 3. Power supply is connected ("POWER" LED illuminates green);
- 4. Registered to the network ("NETWORK" LED illuminates green and blinks yellow).
- Click "Add new system" and enter the G16 "IMEI/Unique ID" number. This number can be found on the device and the packaging sticker. Click "Next".
- 4. Enter the system "Name". Click "Next".



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

Important: The control panel zone to which the G16 output OUT is connected to has to be set to keyswitch mode.

www.trikdis.com 19 July, 2024

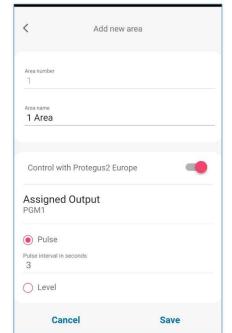


Follow the instructions below if the security control panel will be controlled with a *G16* PGM output, turning on/off the control panel keyswitch zone.

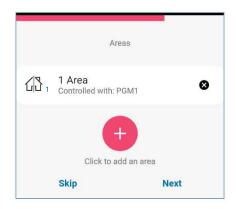
1. Click "Continue".



- 2. Enter "Area name". Enable PGM output control using the *Protegus2* application.
- 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".



- 5. 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.
- 6. After completing the settings, click the "Skip" button.



www.trikdis.com 20 July, 2024



#### 5.3 Arming/disarming the alarm system with Protegus2

- 1. In the "System Home Screen" window, click on the "Disarm" status icon.
- 2. **Protegus2** will receive a message about a change in the status of the security system and the status icon will change its state.



#### 5.4 Configuration and control with SMS messages

You can remotely configure and control the communicator with SMS messages.

Message structure is: Password  $_{\mbox{\scriptsize space}}$  Command  $_{\mbox{\scriptsize space}}$  Data

For password use the **Administrator code** for *INFO, RESET, OUTPUTx, CONNECT* commands, and **Installer code** for *INFO, RESET, OUTPUTx* commands.

#### **SMS** command list

Command	Data	Description
INFO		Request information about the device. Response will be: communicator type, IMEI number, serial number and firmware version. E.g.: 123456 INFO
RESET		Restart the device. E.g.: 123456 RESET
ОИТРИТх	ON	Turn on an output. x is the output number (1, 2 or 3). E.g.: 123456 OUTPUT1 ON
	OFF	Turn off an output. x is the output number (1, 2 or 3). E.g.: 123456 OUTPUT1 OFF
	PULSE=tttt	Turn on the output in impulse mode, for the specified time interval (sec).  "tttt" is the time duration of impulse in seconds, described in four digits.  E.g.: 123456 OUTPUT2 PULSE=0002
CONNECT	Protegus=ON	Enable access to Protegus service. E.g.: 123456 CONNECT PROTEGUS=ON
	Protegus=OFF	Disable access to Protegus service E.g.: 123456 CONNECT PROTEGUS=OFF
	IP=0.0.0.0:8000	Set primary channel IP address and Port number. E.g.: 123456 CONNECT IP=192.120.120.255:8000
	ENC=123456	Set TRK encryption key. E.g.: 123456 CONNECT ENC=123456
	APN=Internet	Set APN name. E.g.: 123456 CONNECT APN=INTERNET
	USER=user	Set APN user. E.g.: 123456 CONNECT USER=User
	PASS=password	Set APN password. E.g.: 123456 CONNECT PASS=Password
	CP=	Select security control panel from a list. E.g. (assign control panel Paradox SP6000 that is number 4 on the list to the G16):  123456 CONNECT CP=4
	DIR=	Direct control 4-digit password or OFF to disable it.

www.trikdis.com 21 July, 2024



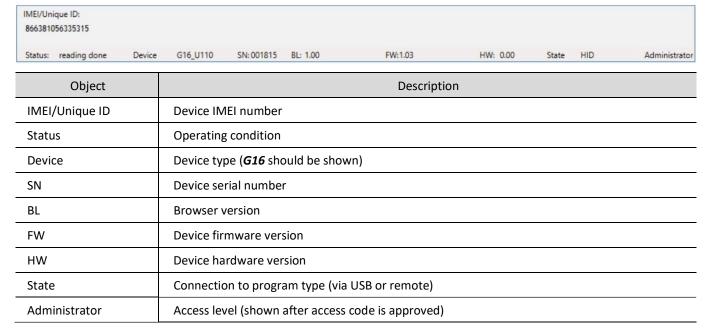
Command	Data	Description
		E.g. (enter the direct control 4-digit password 1122): 123456 CONNECT DIR=1122

You can restrict the phone numbers from which the communicator will accept the commands. See chapter 6.4 "User reporting" window, "Control by SMS" tab.

#### 6 TrikdisConfig window description

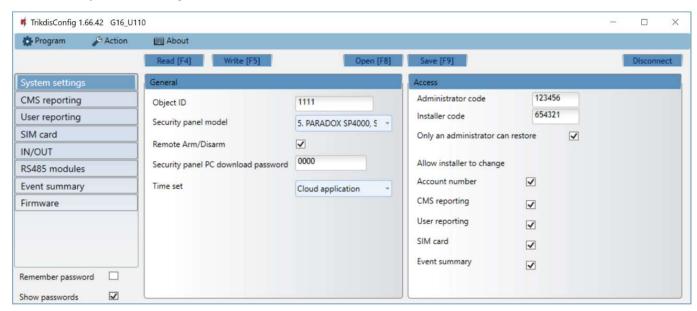
#### 6.1 TrikdisConfig status bar description

After connecting the *G16* and clicking Read [F4], *TrikdisConfig* will provide information about the connected device in the status bar:



After pressing **Read** [F4], the program will read and show the settings which are set in the **G16**. Set the necessary settings according to the **TrikdisConfig** window descriptions given below.

#### 6.2 "System settings" window



www.trikdis.com 22 July, 2024



#### "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 (4 characters hexadecimal number, 0-9, A-F. **Do not use FFFE, FFFF Object ID**).
- Select the **Security panel type** that will be connected to the communicator.
- Remote Arm/Disarm when the checkbox is selected, the *G16* 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 "Programming the control panel".
- 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 "Programming the control panel".
- Time set select which server to use for time synchronization.

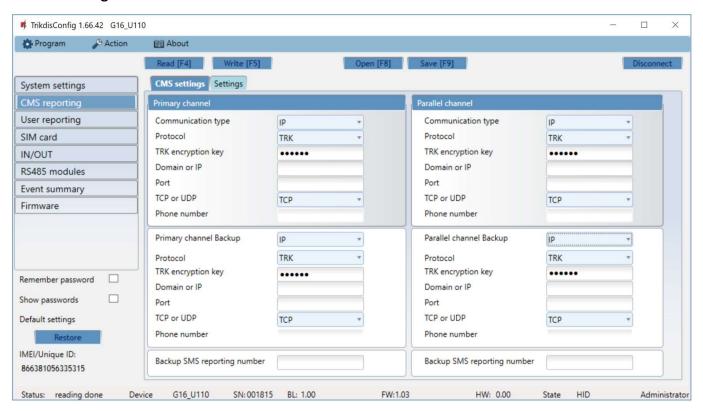
#### "Access" settings group

When setting up the communicator G16 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.
- Allow installer to change the administrator can specify which settings can be changed by the installer.

#### 6.3 "CMS reporting" window

#### "CMS settings" tab



The communicator sends events to the monitoring station via cellular internet (IP) or with SMS messages.

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:

<u>www.trikdis.com</u> 23 July, 2024



- For connection over IP software receiver IPcom Windows/Linux, hardware IP/SMS receiver RL14 or multichannel receiver RM14.
- To receive SMS messages hardware IP/SMS receiver RL14, multichannel receiver RM14 or SMS receiver GM14.

SMS communication is particularly useful as a backup channel, because it works even when there is no mobile internet connection. We do not recommend SMS as a primary channel.

#### "Primary channel" settings group

- Communication type select which method for connecting to the monitoring station receiver will be used: IP or SMS.
- Protocol select in which coding the events should be sent: TRK (to TRIKDIS receivers), DC-09\_2007 or DC-09\_2012 (to universal receivers), TL150 (to SUR-GUARD receivers).
- **TRK encryption key** 6-digit message encryption key. The key written to the communicator must match the receiver's key.
- **Domain or IP** enter the domain or IP address of the receiver.
- Port enter the network port number of the receiver.
- TCP or UDP select in which protocol (TCP or UDP) the events should be sent.
- **Phone number** (only for SMS messages) enter the telephone number of a TRIKDIS SMS receiver. The phone number must begin with the country code (e.g., 370xxxxxxxx).

#### "Primary channel Backup" settings group

Enable the backup channel mode to send events via backup channel if connection via primary channel is lost. Backup channel settings are same as described above.

#### "Parallel channel" settings group

Events are transmitted in parallel with the first 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.

#### **Backup SMS reporting number**

Backup SMS messages are sent when they cannot be transmitted via the primary, parallel and backup channels. It is especially useful because it works even when there is no IP connection in the mobile operator network.

This channel is operational only when IP mode is set for the first channel and its backup channel.

SMS notifications will be sent to the Central Monitoring Station SMS receiver: 1) immediately after the first time when communicator starts operating; and 2) if the TCP / IP or UDP / IP connection is interrupted in the first channel and its backup channel.

• **Backup SMS reporting number** - enter the phone number for TRIKDIS CMS (Central Monitoring Station) SMS receiver. Phone number must begin with the country code (e.g., 370xxxxxxxxx).

#### "Settings" tab



www.trikdis.com 24 July, 2024



#### "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 heartbeats keep the active communication session between the device and the receiver. An active session is required for remote connection, control and configuration of the device. We recommend setting the PING period for no more than 5 minutes.
- **Backup reporting after** indicates the number of unsuccessful attempts to send the message via Primary channel. If device fails to transmit specified number of times, the device will connect to transmit the messages via Backup channel.
- **Return from backup after** time after which the *G16* will attempt to reconnect and transmit messages via the Primary channel.
- 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.

#### "DC-09 settings" settings group

The settings are displayed when the **DC-09\_2007** or **DC-09\_2012** protocol is set in the communication channel **Protocol** field for sending events to universal receivers.

- Object ID in DC-09 enter the object number. The object number entered in this field will be used if DC-09 encoding is selected. A hexadecimal number from 3 to 16 characters can be entered. This Number is provided by the CMS (Central Monitoring Station).
- DC-09-line No. enter line number of the receiver.
- DC-09 receiver No. enter the receiver number.

#### 6.4 "User reporting" window

#### "PROTEGUS cloud" tab



**Protegus** service allows users to remotely monitor and control the communicator. For more information about **Protegus** service, visit <a href="https://www.protegus.eu">www.protegus.eu</a>.

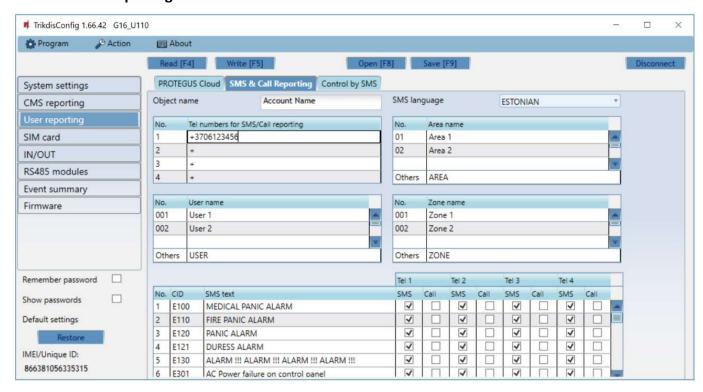
#### "Protegus Cloud" settings group

- **Enable connection** enable the **Protegus** service, the **G16** will be able to exchange data with **Protegus2** app and to be remotely configured via **TrikdisConfig.**
- Protegus Cloud access Code 6-digit code for connecting to the Protegus2 app (default 123456).

www.trikdis.com 25 July, 2024



#### "SMS & Call Reporting" tab

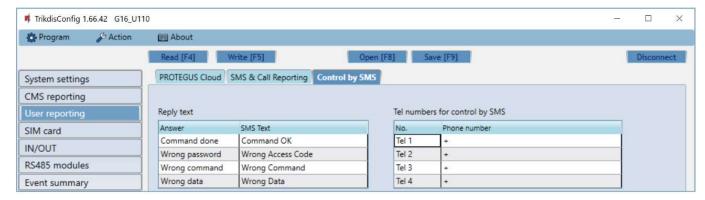


Notifications about system events can be transmitted to users' mobile phones via SMS messages or phone calls.

- **Object name** name the system to which the communicator is connected. Every SMS notification will include the name of the object.
- SMS language choose the language for SMS messages (SMS messages can be sent with language-specific characters).
- **Tel numbers for SMS/Call reporting** enter up to 4 user phone numbers that will receive event SMS messages or calls. Phone numbers must begin with the country code, for example +370xxxxxxxx, 00370xxxxxxxxx or 370xxxxxxxxx.
- Area name, User name, Zone name tables each area, user and zone may have a name that will be used in SMS event messages. Enter the area, user or zone number in the appropriate table and enter the name next to the number.
- CID event table you can change which phone numbers receive SMS messages or phone calls notifying about the events on the list

You can change the texts for SMS messages of default events, change the contact ID (CID) codes and enter new events with descriptions.

#### "Control by SMS" tab



You can send SMS commands to the communicator that will control the basic functions of the device. Find the control commands in chapter 5.4 "Configuration and control with SMS messages".

- Reply text SMS text that the user receives after sending an SMS command. SMS text can be edited.
- Tel numbers for control by SMS you can enter phone numbers from which the communicator will accept commands.

<u>www.trikdis.com</u> 26 July, 2024



Note:

If no phone number is entered, the device will accept commands from any phone number. In any case, security is guaranteed by the requirement to enter administrator or installer password in the SMS command.

#### 6.5 "SIM card" window

Important:

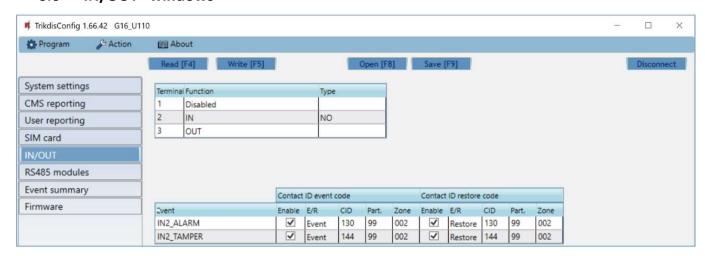
- 1. Ensure that the SIM card is activated and working before using it.
- 2. If mobile internet connection will be used for sending events via IP channel or to **Protegus2**, ensure that mobile data service is enabled.



#### "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.
- **Forbid connection when roaming detected** you can use this function when the security system is installed near the country border. This function prevents the communicator from operating in the other country's mobile network.

#### 6.6 "IN/OUT" windows



The communicator has 3 universal (input / output) terminals. The table can set the terminal operating mode (Off, IN, OUT). The input must specify the type of circuit to be connected NC, NO, NO / EOL, NC / EOL, NC / 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 code, which will be sent to CSP and *Protegus2*.

Enable – checked event fields where messages will be sent to CMS and Protegus2.

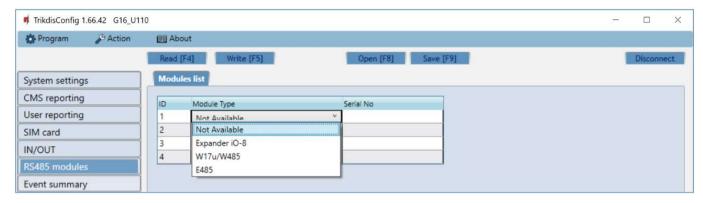


- E/R choose what type of event will be sent when input is triggered Event or Restore.
- CID enter the event code or leave the default value. Upon entering the event, the event code will be sent to *Protegus2* and CMS
- Part. enter the partition (area) number that will be sent when an internal event 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.

#### 6.7 "RS485 modules" window (only for 3G/4G communicators)

#### "Modules list" tab

*iO-8* expanders can be connected to the communicator to add additional inputs, outputs. Connected expanders must be added to the **Modules list** table.



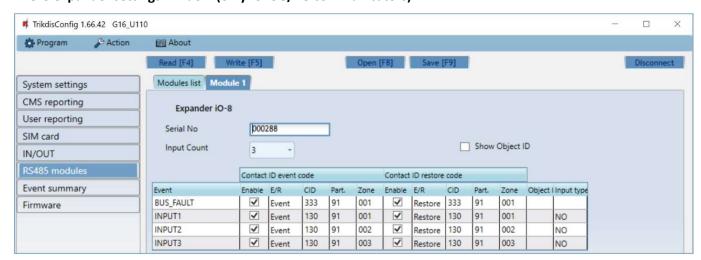
- Module type select the module that is connected to the communicator via RS485 from the list.
- Serial No enter the module serial number (6 digits), which is indicated on stickers on the module's case and packaging.

After selecting the connected module and entering its serial number, go to RS485 modules → Module.

#### "Module" tabs

After adding the expander to the communicator as described above, in the **RS485 modules** window a new tab will appear with this module's settings. The tab will be given a number. Bellow we describe the settings for *iO-8* expanders, for the WiFi module *W485*, for the "Ethernet" module *E485*.

#### iO-8 expander settings window (only for 3G/4G communicators)



Expander iO-8 has 8 universal (input/output) terminal contacts. Up to four iO-8 expanders can be connected.

• **Input count** – select what number of terminal contacts should be set to input (IN) mode. The rest of the terminal contacts will become outputs (OUT).

Settings for controllable outputs are set directly in *Protegus2* app. There you can assign an output for arming/disarming the alarm system or for remote control of devices.

www.trikdis.com 28 July, 2024



In the table inputs can be assigned Contact ID event and restore codes. After input is triggered, the communicator will send an event with set event code to monitoring station receiver, *Protegus2* app and SMS (to user telephone number).

#### Contact ID event code:

- **Enable** allow message transmission, when the input is triggered.
- E/R choose what type of event will be sent when input is triggered Event or Restore.
- **CID** assign a Contact ID event code to the input.
- Part. assign the partition (area) to the input. It is set automatically: if the module no. is 1, then the area is 91; if the module no. is 4, then the area is 94.
- **Zone** set the zone number for the input.

#### Contact ID restore code:

- **Enable** allow message transmission when the input is restored.
- E/R choose what type of event will be sent when input is restored Restore or Event.
- CID assign the Contact ID restore code to the input.
- Part. assign the partition (area) to the input. It is set automatically: if the module no. is 1, then the area is 91; if the module no. is 4, then the area is 94.
- **Zone** set the zone number for the input.
- Object ID the input (IN) can be assigned an Object ID, which will differ from the Object ID of the communicator G16.
- Input type select the type of the input (NO or NC).

For customers to receive SMS messages or calls about input triggers, enter the Contact ID event code that is assigned to the input to the table in "SMS & Call Reporting" tab.

#### WiFi module W485 settings window (only for 3G/4G communicators)



- DHCP mode WiFi module's mode for registering to network (DHCP or Static).
- 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 will connect to.
- Wifi SSID password WiFi network password.

In the table, you can assign Contact ID event and restore codes to the RS485 data bus fault event. When connection between the **W485** and **G16** is disrupted or re-established, the **G16** will send a message with the assigned CID code to the CMS and **Protegus2** app.

<u>www.trikdis.com</u> 29 July, 2024

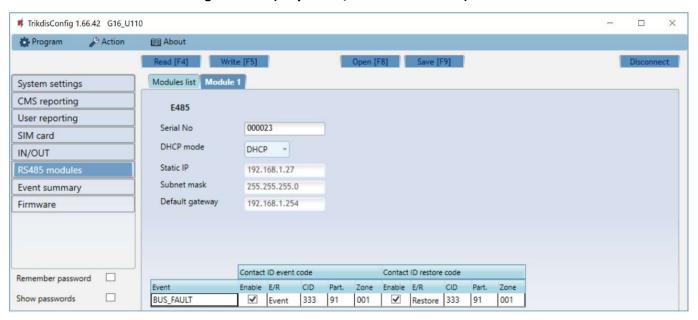


Note:

You must configure the *G16* to send messages to CMS and *Protegus2*, see chapters 2.2 "Settings for connection with Central Monitoring Station" and 2.1 "Settings for connection with Protegus2 app".

Insert SIM card into the communicator G16 for W485 to work.

#### "Ethernet" module E485 settings window (only for 3G/4G communicators)



- DHCP mode ethernet module's mode for registering to network (DHCP or Static).
- 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.

In the table, you can assign Contact ID event and restore codes to the RS485 data bus fault event. When connection between the *E485* and *G16* is disrupted or re-established, the *G16* will send a message with the assigned CID code to the CMS and *Protegus2* app.

Note:

You must configure the *G16* to send messages to CMS and *Protegus2*, see chapters 2.2 "Settings for connection with Central Monitoring Station" and 2.1 "Settings for connection with Protegus2 app".

Insert SIM card into the communicator G16 for E485 to work.

#### 6.8 "Event summary" window

This window allows you to turn on, off, and modify internal messages sent by your device. Disabling an internal message in this window will prevent it from being sent regardless of other settings.



In this window, you can turn on, turn off or change the internal event messages sent by the device. After turning off the internal event in this window, it will not be sent irrespective of other settings.



- COMMUNICATION message about connection error between the control panel and G16.
- **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 G16 with TrikdisConfig.
- **START** message about **G16** connecting to the network.
- **TEST** periodic test message.

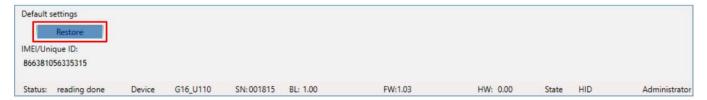
Note: To enable periodic TEST messages and set their period, go to CMS reporting -> Settings -> Test period.

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

You can change the Contact ID code for each event, and also the zone and partition number.

#### 6.9 Restoring factory settings

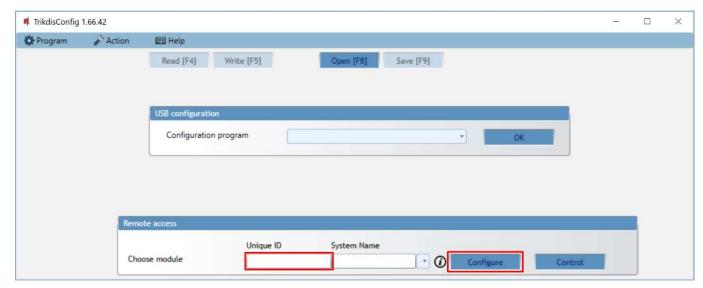
To restore the communicator's factory settings, you need to click the **Restore** button in the **TrikdisConfig** window.



#### 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. **Protegus cloud** is enabled. How to enable cloud is described in section 6.4 "User reporting" window;
- 3. Power supply is connected ("POWER" LED illuminates green);
- 4. Registered to the network ("NETWORK" LED illuminates green and blinks yellow).
- 1. Start the configuration program *TrikdisConfig*.
- 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.



- 3. (Optional) in the System name field, enter the desired name for the G16 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.
- 2. Make sure that the event arrives to the CMS (Central Monitoring Station) and/or is received in the *Protegus2* application.
- 3. To test communicator input, trigger it and make sure to receive the correct event.
- 4. To test the communicator outputs, activate them remotely and check their operation.
- 5. If the security control panel will be controlled remotely, arm/disarm the security system remotely by using the *Protegus2* app.

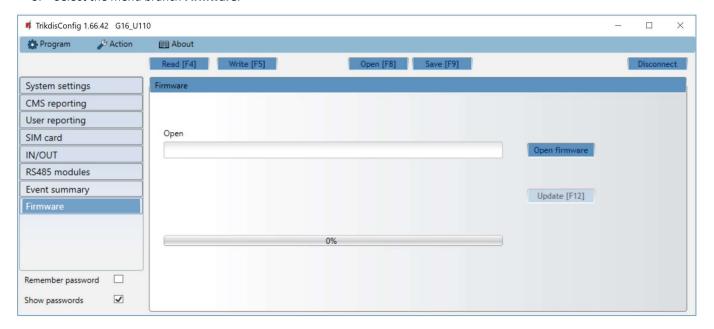
#### 9 Firmware update

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.



- 4. Press **Open firmware** and select the required firmware file. If you do not have the file, the newest firmware file can be downloaded by <u>registered users</u> from <u>www.trikdis.com</u>, under the download section of the **G16** communicator.
- 5. Press Update [F12].
- 6. Wait for the update to complete.

<u>www.trikdis.com</u> 32 July, 2024



#### 10 Annex

The communicator can work with a SUR-GARD receiver. The communicator converts Contact ID codes received from the alarm control panel into SIA codes.

#### Contact ID to SIA code conversion table

System Event	CID Report Code	SIA Report Code
Medical alarm	E100	"MA"
Personal emergency	E101	"QA"
Fire in zone: <z></z>	E110	"FA"
Water flow detected in zone: <z></z>	E113	"SA"
Pull station alarm in zone: <z></z>	E115	"FA"
Panic in zone: <z></z>	E120	"PA"
Panic alarm by user: <v></v>	E121	"HA"
Panic alarm in zone: <z></z>	E122	"PA"
Panic alarm in zone: <z></z>	E123	"PA"
Panic alarm in zone: <z></z>	E124	"HA"
Panic alarm in zone: <z></z>	E125	"HA"
Alarm active in zone: <z></z>	E130	"BA"
Alarm active in zone: <z></z>	E131	"BA"
Alarm active in zone: <z></z>	E132	"BA"
Alarm active in zone: <z></z>	E133	"BA"
Alarm active in zone: <z></z>	E134	"BA"
Alarm active in zone: <z></z>	E135	"BA"
Tamper active in zone: <z></z>	E137	"TA"
Intrusion verified in zone: <z></z>	E139	"BV"
Alarm active in zone: <z></z>	E140	"UA"
System failure (143)	E143	"ET"
Tamper active in zone: <z></z>	E144	"TA"
Tamper active in zone: <z></z>	E145	"TA"
Alarm active in zone: <z></z>	E146	"BA"
Alarm active in zone: <z></z>	E150	"UA"
Gas detected in zone: <z></z>	E151	"GA"
Water leakage detected in zone: <z></z>	E154	"WA"
Foil break detected in zone: <z></z>	E155	"BA"
High temperature at sensor: <n></n>	E158	"KA"
Low temperature at sensor: <n></n>	E159	"ZA"
CO detected in zone: <z></z>	E162	"GA"
Fire failure in zone: <z></z>	E200	"FS"
Monitored alarm	E220	"BA"
System failure (300)	E300	"YP"
AC power supply loss	E301	"AT"
Low battery	E302	"YT"



System Event	CID Report Code	SIA Report Code
System failure (304)	E304	"YF"
System reset in zone: <z></z>	E305	"RR"
Panel programming changed	E306	"YG"
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: <v> (313)</v>	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: <z></z>	E373	"FT"
Trouble in zone: <z></z>	E374	"EE"
Trouble in zone: <z></z>	E378	"BG"
Trouble in zone: <z></z>	E380	"UT"
Wireless zone fault: <z></z>	E381	"US"
Wireless module failure (382)	E382	"UY"
Tamper active in zone: <z></z>	E383	"TA"
Low battery in wireless zone: <z></z>	E384	"XT"
Trouble in zone: <z> (389)</z>	E389	"ET"
Trouble in zone: <z> (391)</z>	E391	"NA"
Trouble in zone: <z> (393)</z>	E393	"NC"
User <v> disarmed the system</v>	E400	"OP"
User <v> disarmed the system</v>	E401	"OP"
Automatic disarm	E403	"OA"
Deferred disarm <v> user</v>	E405	"OR"



System Event	CID Report Code	SIA Report Code
Alarm cancelled by user: <v></v>	E406	"BC"
User <v> disarmed remotely</v>	E407	"OP"
Quick disarm	E408	"OP"
Remote disarm	E409	"OS"
Callback request made by CMS	E411	"RB"
Successful data download	E412	"RS"
Entry access denied for user <v></v>	E421	"JA"
Entry by user <v></v>	E422	"DG"
Forced Access <z> zone</z>	E423	"DF"
Exit access denied for user <v></v>	E424	"DD"
Exit by user <v></v>	E425	"DR"
User <v> disarmed too early</v>	E451	"OK"
User <v> armed too late</v>	E452	"OJ"
User <v> Failed to Disarm</v>	E453	"CT"
User <v> Failed to Arm</v>	E454	"CI"
Auto arm failed	E455	"CI"
Partial arm by user: <v></v>	E456	"CG"
Exit violation by user: <v></v>	E457	"EE"
System disarmed after alarm by user: <v></v>	E458	"OR"
Recent arm <v> user</v>	E459	"CR"
Wrong code entered	E461	"JA"
Auto-arm time extended by user: <v></v>	E464	"CE"
Device disabled (501)	E501	"RL"
Device disabled (520)	E520	"RO"
Wireless sensor disabled in zone: <z> (552)</z>	E552	"YS"
Zone <z> bypassed</z>	E570	"UB"
Zone <z> bypassed</z>	E571	"FB"
Zone <z> bypassed</z>	E572	"MB"
Zone <z> bypassed</z>	E573	"BB"
Group bypass by user: <v></v>	E574	"CG"
Zone <z> bypassed</z>	E576	"UB"
Zone <z> bypass cancelled</z>	E577	"UB"
Vent zone bypass	E579	"UB"
Walk test activated by user: <v></v>	E607	"TS"
Manual test report	E601	"RX"
Periodic test report	E602	"RP"
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"

www.trikdis.com 35 July, 2024



System Event	CID Report Code	SIA Report Code
Time/Date was reset by user <v></v>	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 : <z></z>	R110	"FH"
No more water flow alarm in zone: <z></z>	R113	"SH"
Panic alarm restored in zone: <z></z>	R120	"PH"
Panic alarm cancelled by user: <v></v>	R121	"HH"
Panic alarm restored in zone: <z></z>	R122	"PH"
Panic alarm restored in zone: <z></z>	R123	"PH"
Panic alarm restored in zone: <z></z>	R124	"HH"
Panic alarm restored in zone: <z></z>	R125	"HH"
No more alarm in zone: <z></z>	R130	"BH"
No more alarm in zone: <z></z>	R131	"BH"
No more alarm in zone: <z></z>	R132	"BH"
No more alarm in zone: <z></z>	R133	"BH"
No more alarm in zone: <z></z>	R134	"BH"
No more alarm in zone: <z></z>	R135	"BH"
No more tamper in zone: <z></z>	R137	"TA"
No more alarm in zone: <z></z>	R140	"UH"
No more system failure (143)	R143	"UR"
No more tamper in zone: <z></z>	R144	"TR"
No more tamper in zone: <z></z>	R145	"TR"
No more alarm in zone: <z></z>	R146	"BH"
No more alarm in zone: <z></z>	R150	"UH"
No more gas alarm in zone: <z></z>	R151	"GH"
No more water leakage alarm in zone: <z></z>	R154	"WH"
Foil break restored in zone: <z></z>	R155	"BH"
Temperature has normalized at sensor: <n></n>	R158	"KH"
Temperature has normalized at sensor: <n></n>	R159	"ZH"
No more CO alarm in zone: <z></z>	R162	"GH"
No more fire failure in zone: <z></z>	R200	"FV"
Monitored restore alarm	R220	"BH"
No more system failure (300)	R300	"YA"
AC power supply OK	R301	"AR"
Battery OK	R302	"YR"

www.trikdis.com 36 July, 2024



System Event	CID Report Code	SIA Report Code
No more system failure (304)	R304	"YG"
System reset restored in zone: <z></z>	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 communication failure (352)	R352	"LR"
No more system failure (353)	R353	"YK"
No more system communication failure (354)	R354	"YK"
No more system failure (355)	R355	"UJ"
Fire trouble restored in zone: <z></z>	R373	"FJ"
No more trouble in zone: <z></z>	R374	"EA"
No more trouble in zone: <z></z>	R380	"UJ"
No more wireless zone fault: <z></z>	R381	"UR"
No more wireless module failure (382)	R382	"BR"
No more tamper in zone: <z></z>	R383	"TR"
Battery OK in wireless zone: <z></z>	R384	"XR"
No more trouble in zone: <z> (391)</z>	R391	"NS"
No more trouble in zone: <z> (393)</z>	R393	"NS"
User <v> armed the system</v>	R400	"CL"
User <v> armed the system</v>	R401	"CL"
Automatic arm	R403	"CA"
User <v> armed remotely</v>	R407	"CL"
Quick arm	R408	"CL"
Remote arm	R409	"CS"
User <v> armed to Stay mode</v>	R441	"CG"
User <v> armed too early</v>	R451	"CK"
User <v> disarmed too late</v>	R452	"CJ"
User <v> Failed to Disarm</v>	R454	"CI"



System Event	CID Report Code	SIA Report Code
Partial Arm by user: <v></v>	R456	"CG"
Recent disarm <v> user</v>	R459	"CR"
Device enabled (501)	R501	"RG"
Device enabled (520)	R520	"RC"
Wireless sensor enabled in zone: <z> (552)</z>	R552	"YK"
Zone <z> bypass cancelled</z>	R570	"UU"
Zone <z> bypass cancelled</z>	R571	"FU"
Zone <z> bypass cancelled</z>	R572	"MU"
Zone <z> bypass cancelled</z>	R573	"BU"
Group bypass by user: <v> cancelled</v>	R574	"CF"
Zone <z> bypass cancelled</z>	R576	"UU"
Zone <z> bypass cancelled</z>	R577	"UU"
Vent zone bypass cancelled	R579	"UU"
Walk test deactivated by user <v></v>	R607	"TE"
Time/Date was reset by user <v></v>	R625	"JT"
System active (654)	R654	"CD"