



# **"Ethernet" communicator E16T** Installation manual

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# Safety requirements

The Ethernet 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

Communicator *E16T* improves security control panels with telephone communicator for sending and managing events using a wired internet connection.

The communicator can transmit full event information to the receiver of the central monitoring station (CMS).

The communicator works with *Protegus* apps. With *Protegus*, users can control their alarms remotely and receive event notifications. The *Protegus* app works with all the security systems of other manufacturers to, which the *E16T* is connected. The communicator can send messages to the CMS and work with *Protegus* simultaneously.

The *E16T* is connected to the control panel telephone communicator by 2 wires to receive event messages transmitted by DTMF tones using Contact ID protocol.

## **Features**

#### Connects to panel's landline dialer:

- Communicator can be connected to control panel's landline dialer with 2 or 4 wires.
- When connected with 4 wires, the landline between the panel and communicator will be monitored.

#### 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.
- 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.
- When Protegus service is enabled, events are first delivered to CMS, and only then are sent to app users.

#### Works with Protegus 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.

#### Notifies users:

• Users can be notified about events with *Protegus* app.

#### Controllable outputs and inputs:

- 1 output, controlled via:
  - *Protegus* app.
- 2 inputs, selectable type: NC; NO; EOL.

#### 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 Specifications**

Parameter	Description
Power supply voltage	10-18 V DC





Parameter	Description
Current consumption	Up to 0,5 A
Ethernet connection	IEEE802.3, 10 Base-T, RJ45 socket
Data pack content	Contact ID format codes
Memory	Up to 100 messages
Inputs	2, NC/NO/EOL 2,2 kΩ type
Output	1 OC type, commutating voltage up to 30 V and current up to 0,15 A
Operating environment	Temperature from -10 °C to 50 °C, relative humidity - up to 80% at +20 °C
Dimensions	88 x 62 x 25 mm
Weight	80 g

# **1.2** Communicator elements



- 1. Light indicators.
- 2. Frontal case opening slot.
- 3. Terminal for external connections.
- 4. USB Mini-B port for communicator programming.
- 5. Ethernet connection RJ45 socket.

# **1.3** Purpose of terminals

Terminal	Description
+DC	Power supply terminal (10-18 V DC positive terminal)
-DC	Power supply terminal (10-18 V DC negative terminal)
TIP	Terminal to connect with security control panel TIP terminal
RING	Terminal to connect with security control panel RING terminal
T-1 / IN1	Terminal for monitoring the telephone line or an input terminal, selectable type: NC; NO; EOL
R-1 / IN2	Terminal for monitoring the telephone line or an input terminal, selectable type: NC; NO; EOL
OUT	Output terminal (OC type), current up to 0,15 A
СОМ	Common terminal (negative)
A 485	RS485 bus A contact
B 485	RS485 bus B contact



## 1.4 LED indication of operation

Indicator	Light status	Description
NETWORK	Green solid	Communicator is connected to the Internet
	Off	Not connected to the LAN
DATA	Yellow solid	There are unsent events in the buffer memory
	Green blinkings	Messages are sent from the security control panel
POWER	Green blinkings	Power supply is on with sufficient voltage
	Yellow blinkings	Power supply is not sufficient (≤11,5 V)
TROUBLE Red solid		LAN connection problem
	Off	Works without problems
LINE	Green solid	The control panel "raised" the handset

## 1.5 Structural schematic with E16T usage



**Note :** Before configuration, make sure you have all the necessary components:

- 1. USB Mini-B cable is required for configuration.
- 2. "CAT-5 Ethernet" cable (maximum 100 m in length).
- 3. At least 4 wired cable to connect communicator to the security alarm system.
- 4. Flat screwdriver.
- 5. User Manual for control panel to which Trikdis communicator will be connected.

Missing components order separately from your local distributor.

# 2 Quick configuration with TrikdisConfig software

- 1. Download configuration software *TrikdisConfig* from <u>www.trikdis.com</u>(type "TrikdisConfig" in the search field) and install it.
- 2. Open the casing of the *E16T* with a flat-head screwdriver as shown below:

## **Ethernet communicator E16T**





- 3. Using a USB Mini-B cable connect the *E16T* 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 and to allow the security control to be controlled with the *Protegus* app.

## 2.1 Settings for connection with Protegus app

## In the *"System Settings"* window:

🕫 TrikdisConfig 1.66.11 E16T	TrikdisConfig 1.66.11 E16T – 🗆 🗙					
🔅 Program 🥜 Action	D About					
	Read [F4] Write [F5] Open [F8]	Save [F9]	Disconnect			
System settings	General	Access				
Reporting	Account number E102	Administrator code	•••••			
Event Summary	Use security panel account ID	Installer code				
Firmware	Test period V 1440 min	Allow installer to change				
	Security panel model	Account number				
		Reporting	✓			

1. Select Security panel model that will be connected to the communicator.

#### In "Reporting" window "Protegus Service" tab:

📫 TrikdisConfig 1.66.11 E16T	TrikdisConfig 1.66.11 E16T – 🗆 🗙					
🔅 Program 🖉 Action	🕮 About					
System settings Reporting Event Summary Firmware	Read [F4]     Write [F5]     Open [F8]     Save [F9]       CMS Reporting     PROTEGUS service       PROTEGUS service       Enable connection     2       Service code     3	Disconnect				

- 2. Check Enable connection in *Protegus* service checkbox.
- 3. Change the **Service code** for logging in to *Protegus*, if you want to ask users to add it by adding the *Protegus* system in the application (factory default 123456).

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

**Note:** For more information about other *E16T* settings in *TrikdisConfig*, see chapter 7 "TrikdisConfig windows description".



## 2.2 Settings for connection with Central Monitoring Station

## In "System settings" window:

🕫 TrikdisConfig 1.66.11 E16T			-	×
🏠 Program 🔗 Action	🕮 About			
System settings	Read [F4] Write [F5] Open [F8] S	Save [F9]	Disconnect	
Reporting Event Summary	Account number 1 E102	Administrator code	•••••	
Firmware	Use security panel account ID Test period 1440min	Installer code Allow installer to change	•••••	
	Security panel model INTERFACE DTMF	Account number		
	2	Reporting		

- 1. Enter 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.

## In "Reporting" window settings for "Primary" channel:

📫 TrikdisConfig 1.66.11 E16T	- 0	×
🔅 Program 🖉 Action	El About	
System settings Reporting	Read [F4]     Write [F5]     Open [F8]     Save [F9]     Disconnect       CMS Reporting     PROTEGUS service	
Event Summary Firmware	Primary       Settings         Enable       3       Image: Setting	
Remember password  Default settings Restore Unique ID: D88039E75367 Status: done D	Backup         Enable         Remote Host         Remote Port         TCP or UDP         PING Time         Backup         Encryption key	min role

- 3. Enable enable primary communication channel.
- 4. **Remote Host** enter the receiver's IP address.
- 5. **Remote Port** enter receiver's network port number.
- 6. TCP or UDP choose event transmission protocol (TCP or UDP) in which events should be sent.
- 7. **PING Time** PING signal transmission period.
- 8. Encryption key enter the encryption key that is set in the receiver.
- 9. (Recommended) Configure the **Backup** Channel Settings.
- 10. **TCP protocol** select which encoding protocol will be use: TRK (for TRIKDIS receivers), DC-09\_2007 or DC-09\_2012 (for universal receivers).
- 11. Encription enabled if TCP protocol SIA DC09\_2012 is selected, encryption can be enabled.
- 12. DC-09 encryption key enter encryption key that is set in the receiver.
- 13. DC-09 receiver No. enter receiver number.



14. DC-09 line No. - enter receiver line number.

**Note:** If you have selected DC-09 message transmission encoding, in addition to the "Reporting" window, on the "Settings" tab, enter the object, line and receiver numbers.

## In "Reporting" window "Protegus Service" tab:

🕫 TrikdisConfig 1.66.11 E16T	🗖 TrikdisConfig 1.66.11 E16T — 🗆 🗙						
🔅 Program 🔗 Action	About 1						
	Read [F4]         Write [F5]         Open [F8]         Save [F9]	Disconnect					
System settings Reporting Event Summary Firmware	CMS Reporting PROTEGUS service  PROTEGUS service  Enable connection 15 Service code 16						

- 15. Select checkbox **Enable connection** to the PROTEGUS Cloud.
- 16. You can change the **Service code** for logging into **Protegus** if you want users to be asked to enter it when adding the system to **Protegus** app (default password 123456).

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

**Note:** For more information about other *E16T* settings in *TrikdisConfig*, see chapter 7 "TrikdisConfig windows description".

# 3 Installation and wiring

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

Following the provided schematics connect the communicator to the control panel.







# 3.2 Schematics for wiring inputs

The communicator has two input terminals (IN1, IN2) for connecting NO, NC, EOL type circuits. Default input setting - NO. The input type can be changed in the *TrikdisConfig* window **Event summary**.

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



# 3.3 Connect LAN cable



# 3.4 Schematic for wiring a relay and LED





# 4 Programming the control panel

In order for the security panel to send events via the telephone communicator, it must be enabled and properly configured. Set the control panel telephone communicator according to the programming guide of security panel:

- 1. Turn on the panel's PSTN landline dialer.
- 2. If the communicator is connected to the telephone line, enter the phone number 1234. If the communicator is connected to the control panel RING / TIP terminal, enter any number of at least 2 digits.
- 3. Choose DTMF mode.
- 4. Select Contact ID communication protocol.
- 5. Enter the panel's 4 digit account number.

## 4.1 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].

#### Exit programming mode

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

## 4.1.1 Special settings for Honeywell Vista 48 panel

If you want to use *E16T* 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
*43	1234 (panel account number)	*62	1	*71	1
*44	1234	*63	1	*72	1
*45	1111	*64	1	*73	1
*47	1	*65	1	*74	1
*48	7	*66	1	*75	1
*50	1	*67	1	*76	1
*59	0	*68	1		

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

# 5 Remote control

## 5.1 Adding the security system to Protegus app

With *Protegus* 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 *Protegus* application or use the browser version: <u>www.protegus.eu/login</u>





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

#### Note:

When adding the *E16T* to *Protegus* check if :

- 1. Protegus cloud is enabled. See chapter 6.3 "Reporting" window;
- 2. Power supply is connected ("POWER" LED illuminates green);
- 3. *E16T* connected to the Internet (LAN cable connected). The "NETWORK" indicator lights up green when there is a connection.
- 3. Click **Add new system** and enter the *E16T*'s *"MAC*" number. This number can be found on the device and the packaging sticker. After entering press **Next**.

Add new system	
Unique ID *	Enter MAC, it can be found: - on packing box; - back of communicator's housing; - in TrikdisConfig as Unique ID.

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

Important: The control panel zone to which the *E16T* 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 the *E16T* output OUT, turning on/off the control panel keyswitch zone.

1. In the new window, click "Areas" in the side menu. In the window that opens, specify the area of the alarm system 1 (communicator has one OUT output) and press "Next.

<b>protegus</b> Intelligent security & control	E16T ONLINE	~		Q Peter	Ë	ŝ	Ę
Areas			_				
۩} Settings			The test of te	are in the system?		Next	
<b>∷</b> Events			1				

2. In the new window, identify what is the number for each of the specified areas in the security system and press Save.



## **Ethernet communicator E16T**

	E16T online	•							Q Peter	Ë	ঞ্জি	$\bigcirc$	
Areas													
۩5 Settings					Ar	ea 1 numl	ber				Save		
Events			1										

- 3. In the side menu press **Settings** and in the newly opened window press **Settings**. Select the box **Arm/Disarm with PGM** and specify which area the output will control. One output OUT can control only one area.
- 4. Select **Level** or **Pulse**, depending on the type of control panel keyswitch zone. You can also change the duration of the pulse interval if it is required for the connected control panel.
- 5. For additional security, you can select **Use Application password for ARM/DISARM**. Then after pressing the button to arm/disarm the alarm system, a window for entering the app password will open.



## 5.3 Arming/disarming the alarm system with Protegus

- 1. To arm/disarm the alarm system, open the *Protegus* window Areas.
- 2. In the **Areas** window press the Area button. In the opened window select the action (to arm or to disarm the alarm system).
- 3. If asked, enter the user code or *Protegus* password.



Protegus Intiligent security & control	E16T online			Q Pet	er 🛗	<u>نې</u>	$\bigcirc$	[]
Areas								
ි		Areas			+ @		)	
Settings		?	[				_	
Events		Unknown		Area 1 Arm				
		Area 1		Disarm				
		Refresh time: 3/14/2019, 10:2		Cancel				

# 6 Remote configuration

Important: Remote configuration will work only when E16T:

- 1. Protegus service is enabled. The service activation is described in chapter 7.3 "Reporting" window;
- 2. Power supply is connected (POWER LED flashes green);
- 3. **E16T** connected to the Internet (LAN cable connected). The "NETWORK" indicator lights up green when there is a connection.
- 1. Download TrikdisConfig from www.trikdis.lt.
- 2. Make sure the *E16T* communicator is connected to the Internet and is enabled to *Protegus* service.
- Start the configuration program *TrikdisConfig* and the section Remote Access in the Unique ID field, enter the existing *E16T* MAC address (the MAC address is indicated on the stickers affixed to the underside of the communicator and the package).

Remote access				
	Unique ID	System Name		
Choose module			Configure	Control

- 4. (Optional) In the **System name** field, enter the desired name for the **E16T** with this Unique ID. Press **Configure.**
- 5. The communicator configuration window will open. Click the **Read [F4]** button to read the program for the *E16T* set parameters. If the *Administrator Code* Input window opens, enter the six-digit administrator code value. In order for the program to remember the code, check the box next to **Remember Password**.
- 6. Set the necessary settings and when finished, click Write [F5].



# 7 TrikdisConfig window description

## 7.1 TrikdisConfig status bar description

After connecting the *E16T* and clicking **Read [F4]**, *TrikdisConfig* will provide information about the connected device in the status bar:

Unique ID: D88039E75367									
Status: done	Device:	E16T	SN: 000004	BL: E16T_boot_1v1	FW:E16T_180921134201	HW:	State:	HID	Admin role

Object	Description				
Unique ID	Device IMEI number				
Status	Operating condition				
Device	Device type ( <i>E16T</i> should be shown)				
SN	Device serial number				
BL	Browser version				
FW	Device firmware version				
HW	Device hardware version				
Status	Connection to program type (via USB or remote)				
Admin	Access level (shown after access code is approved)				

After pressing **Read [F4]**, the program will read and show the settings which are set in the **E16T**. Set the necessary settings according to the **TrikdisConfig** window descriptions given below.

# 7.2 "System settings" window

TrikdisConfig 1.66.11 E16T				-				
Program 🎤 Action	💷 About							
	Read [F4] Write [F5]	Open [F8]	Save [F9]	Disconnect				
System settings	General		Access					
Reporting	Account number E102		Administrator code	•••••				
Event Summary	Use security panel account ID		Installer code					
Firmware	Test period 🖌 1440	min	Allow installer to change					
			Account number					
	Security panel model	CE DTMF ~	Reporting					
	Ethernet settings		Ethernet settings					
	Internal MAC	D88039E75367	Event Summary					
	Use DHCP	✓	Output					
	Internal IP	192.168.1.118						
	Mask	255.255.255.0	OUT type	Remote Control	<u> </u>			
Remember password	Gateway	0.0.0.0	Inverted					
Restore	DNS 1	8.8.8.8	OUT mode	Level	-			
	DNS 2	8.8.4.4						
Jnique ID: 088039E75367			Pulse Time	10 s				





#### "General" settings group

- Account number 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.).
- Use security panel account ID if the checkbox is selected, the communicator will send events with the account ID entered in the panel instead of the value set in the Account number field.
- Test period periodic test messages will be sent according to a time interval set in this section.
- Security panel model enable/disable DTMF landline interface on the communicator.

## "Ethernet settings" settings group

- Internal MAC unique communicator identifier code.
- Select **Use DHCP** checkbox for communicator to register automatically to the network.
  - If automatic registration is unsuccessful, enter Internal IP address, subnet Mask, Gateway address and DNS service manually.

#### "Access" settings group

There are two access levels (administrator and installer) when configuring the *E16T* communicator:

- Administrator code allows full access to the configuration (default code 123456).
- Installer code allows limited access for installer to the configuration (default code 654321).
- Allow installer to change the administrator can specify which settings the installer can change.
  - Account number;
  - Reporting;
  - Ethernet settings;
  - o Event summary.

**Note:** Administrator and installer codes must be in six-digit or Latin characters.

#### "Output" settings group

- **OUT type** choose output operation type from list (Disabled, LAN OK, Communication Trouble, Remote Control).
- **Inverted** select checkbox if output function should be inverted.
- OUT mode:
  - Pulse a status will take time as indicated in Pulse Time (pulse period in seconds) field.
  - Level a status will change and remain the same until the next command.
- Pulse time enter time the duration of the pulse, s.. OUT output will be triggered for the set time when the output mode is Pulse.



## 7.3 "Reporting" windows

## "CMS Reporting" tab

📫 TrikdisConfig 1.66.11 E16T				_	
🗱 Program 🛛 🎤 Action	🕮 About				
System settings Reporting	Read [F4] Write [F CMS Reporting PROTE	5] GUS service	Open [F8] Save [F9]	Disconnect	
Event Summary	Primary		Settings		
Firmware	Enable Remote Host Remote Port	<ul><li>✓</li><li>0.0.0.0</li><li>0</li></ul>	TCP protocol MCI slave address	TRK03 -	
	TCP or UDP	ТСР	SIA IP settings		
	PING Time Encryption key	<ul><li>✓ 30</li><li>●●●●●</li></ul>	Encription enabled DC-09 encryption key	000000000000000000000000000000000000000	
	Backup Enable				
Remember password  Default settings	Remote Host Remote Port	0.0.0.0	DC-09 receiver No. DC-09 line No.		
Restore	TCP or UDP PING Time	тср 30	Use time stamp		
Unique ID: D88039E75367	Encryption key	•••••			
Status: done D	evice: E16T SN:000	004 BL: E16T_bo	ot_1v1 FW:E16T_180921134201 HW:	State: HID	Admin role

The communicator sends messages to the monitoring station via a wired internet (IP) connection.

Messages can be sent via the primary or backup channel. The backup communication channel will be used when the primary communication channel is interrupted.

Messages to the monitoring station are transmitted with encryption and password protection. To receive and transmit messages to the monitoring program, a TRIKDIS receiver is required:

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

#### "Primary" settings group

- Enable if the checkbox is selected, the main channel for sending event messages to the CMS (central monitoring station) is activated.
- **Remote Host** enter the domain or IP address of the receiver.
- **Remote Port** enter the network port number of the receiver.
- TCP or UDP select in which protocol (TCP or UDP) the events should be sent.
- PING Time enable and set time between signals in minutes (required for communication control).
- Encryption key 6-digit message encryption key. The key written to the communicator must match the receiver's key.

#### "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.

## "Settings" settings group

• **TCP protocol** – select in which protocol the events should be sent.

## "SIA IP parameter" settings group

Settings can be changed, when the DC-09\_2007 or DC-09\_2012 encoding for universal receivers is selected in the TCP protocol field.



- Encryption enabled if the DC09\_2012 TCP protocol is selected, then encryption can be enabled.
- **DC09-2012 encryption key** indicates the encryption key.
- **DC09-2012 receiver No**. receiver's number is indicated.
- **DC-09 line No.** specify the receiver line number.
- Use time stamp the time will be included in the message if the field is checked.

#### "Protegus service" tab

<b>#</b> TrikdisConfig 1.66.11 E16T		-	×
🔅 Program 🎤 Action	D About		
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect	
System settings	CMS Reporting PROTEGUS service		
Reporting Event Summary	PROTEGUS service		
Firmware	Enable connection		
	Service code		

#### "Protegus service" settings group

- Enable connection enable *Protegus* service, *E16T* will be able to exchange data with *Protegus* app and to be remotely configured via *TrikdisConfig*.
- Service code 6-digit code for connecting to the *Protegus* app (default 123456). If the Service code is changed, you will need to enter it, when adding the communicator to *Protegus*.

📫 TrikdisConfig 1.66.11 E16T						-		×
🏠 Program 🎤 Action	🕮 About							
	Read [F4] Write [F5]		Open [F8]	Save [F9]		Disconnect		
System settings Reporting Event Summary Firmware	Inputs description Contac	Parti tt ID	tion FF Zone No.	Туре	Enable Alarm	Restore		
	IN 2 132		002	NO	× V × V	V V		
	Internal events description							
		-	E/R	Contact ID 350	Partition	Zone 000	_	
	Transmission of the message failed Periodic test report		vent	602	FF	000	_	
	System reset		vent	305	FF	000		
Remember password	Low Battery	_	vent	302 302	FF FF	000	-	
Default settings Restore	Battery Restore	2	Event					
Unique ID: D88039E75367			Restore					
Status: done D	evice: E16T SN: 000004 E	BL: E16T_b	poot_1v1 FW:E	16T_180921134201	HW: S	state: HID	Admin r	role

## 7.4 "Event Summary" windows

This window allows you to enable, disable, and change internal messages and input messages from the device. Turning off the internal message in this window will not send it regardless of other settings.

Additional sensors can be connected to the communicator inputs. When the sensor is triggered, the communicator sends an event notification. The login is assigned a Contact ID code, which will be sent to the CMS and **Protegus**.

The event Contact ID codes that will be sent to the CMS and to the *Protegus*, when the event occurs will be indicated by ticking the checkbox.



## "Input description" settings group

- **Partition** enter the partition number.
- **Contact ID** enter the event code or leave the default value. Upon entering the event, the event code will be sent to Protegus and CMS.
- Zone No. enter the zone number and it will be sent in messages.
- **Type** select input types (NO, NC, EOL).
- Enable / Alarm select Alarm to receive report when event occurs.
- Enable / Restore select Restore to receive report when input line will restore.

#### "Internal event description" settings group

- En checked event fields where messages will be sent to CMS and Protegus.
- E/R choose what type of event will be sent when input is triggered Event or Restore.
- **Contact ID** enter the event code or leave the default value. Upon entering the event, the event code will be sent to *Protegus* and CMS.
- Partition 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.

## 7.5 Reset factory settings

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

Default settings Restore									
Unique ID: D88039E75367									
Status: done	Device:	E16T	SN: 000004	BL: E16T_boot_1v1	FW:E16T_180921134201	HW:	State:	HID	Admin role

# 8 Test communicator performance

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

- 1. Check that the power is on.
- 2. Check the network connection (the NETWORK indicator lights up in green).
- 3. Generate an event:
  - by arming/disarming the system with the control panel keypad;
  - triggering a zone alarm when the security system is armed.
- 4. Make sure that the event arrives to the Central Monitoring Station and/or is received in the *Protegus* application.
- 5. To test communicator inputs, trigger them and make sure you receive the correct event.
- 6. To test the communicator outputs, activate them remotely and check their operation.
- 7. If the security control panel will be controlled remotely, arm/disarm the security system remotely by using the *Protegus* app.

## 9 Manual firmware update

**Note:** When the communicator *E16T* 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.

*E16T* 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 *E16T* via USB Mini-B cable to the computer or connect to the *E16T* 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 **E16T** communicator.

📫 TrikdisConfig 1.66.11 E16T		-	×
🔅 Program 🥜 Action	1 About		
System settings Reporting Event Summary Firmware	Read [F4]     Write [F5]     Open [F8]     Save [F9]       Firmware       Open firmware file       Preserve settings	Disconnect Open firmware Update [F12]	

- 5. Press Update [F12].
- 6. Wait for the update to complete.