

"Ethernet" communicator E16 Installation manual

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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

"Ethernet" communicator *E16* 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 *E16* communicator. Communicator can transmit event notifications to the Central Monitoring Station and work with *Protegus2* simultaneously.

For panels from other manufacturers use the *E16T* 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.
- 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.).
- Remote temperature monitoring (with *iO* or *iO-WL* expanders).
- Different user rights for administrator and installer.

Notifies users:

• Users can be notified about events with Protegus2 app.

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.
- Add additional inputs and controllable outputs with wired and wireless *iO* expanders.

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.



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

1.1 List of compatible control panels

<u>Underlined</u> - Control panels directly controlled by *E16*. Firmware PARADOX security panels, which are directly controlled, must be V.4 or higher.

*Connect control panels from other manufacturers to the *E16T* communicator.

1.2 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 Ω) type inputs or open collector (OC) type outputs with current up to 0,15 A, 30 VDC max.	
	Expandable with <i>iO</i> series expanders.	
Power supply voltage	10-18 V DC	
Current consumption	100 mA (on standby)	
	Up to 250 mA (while sending data)	
Ethernet connection	IEEE802.3, 10 Base-T, RJ45 socket	
Transmission protocols	TRK, DC-09_2007, DC-09_2012, TL150	
Message encryption	AES 128	
Memory	Up to 60 messages	
Changing settings	With TrikdisConfig computer program remotely or locally via USB Mini-B port	
Operating environment	Temperature from -10 °C to 50 °C, relative humidity - up to 80% at +20 °C	
Communicator dimensions	88 x 62 x 26 mm	
Weight	80 g	



1.3 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.

1.4 Purpose of terminals

Description
+10 V/+18 V power supply
+10 V/+18 V power supply
Serial bus terminals for direct connection to control panel
1 st input/output terminal
2 nd input/output terminal
3 rd input/output terminal
Common (negative) terminal
RS485 bus A contact
RS485 bus B contact

1.5 LED indication of operation

Indicator	Light status	Description
NETWORK Off No connection to a comput		No connection to a computer network
	Green solid	Communicator is connected to a computer network
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 se		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



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Indicator	Light status	Description
	Yellow solid	(Configuration mode) No connection with computer
TROUBLE	OFF	No operation problems
	1 red blink	Connection error at the "physical" level (PHY Link status error), check LAN cable
	2 red blinks	DHCP error
	3 red blinks	DNS error
	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

1.6 Structural schematic with E16 usage



- 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. 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 <u>www.trikdis.com</u> (type "TrikdisConfig" in the search field) and install it.
- 2. Open the casing of the *E16* with a flat-head screwdriver as shown below:

"Ethernet" communicator E16





- 3. Using a USB Mini-B cable connect the *E16* 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 CMS (central monitoring station) 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:

TrikdisConfig 1.66.34 E16_100	🗖 TrikdisConfig 1.66.34 E16_1000 - 🗆 🗙					
🔅 Program 🔑 Action	🕅 About					
	Read [F4] Write [F5] Open [F8]	Save [F9]		Discon	nect	
System settings	General	Access				
CMS reporting	Object ID 1122	Administrator code 123456	6			
User reporting	Security panel model	Installer code 654321	1			
Ethernet settings		Only an administrator can restore				
IN/OUT	2/0					
RS485 modules	Security panel PC download password	Allow installer to change				

- 1. Select **Security panel model** 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 Security panel PC download/UDL password.

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

# TrikdisConfig 1.66.34 E16_100	2	-		×
🔅 Program 🖉 Action	About			
	Read [F4] Write [F5] Open [F8] Save [F9]	1	Disconn	ect
System settings	PROTEGUS Cloud			
CMS reporting				
User reporting	PROTEGUS Cloud			
Ethernet settings	Enable connection			
IN/OUT	PROTEGUS Cloud access Code			
RS485 modules				

4. Tick the checkbox **Enable connection** to the **Protegus** Cloud.



 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).

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

Note: For more information about other *E16* settings in *TrikdisConfig*, see chapter 6 "TrikdisConfig window description".

2.2 Settings for connection with Central Monitoring Station

In "System settings" window:

TrikdisConfig 1.66.34 E16_100	TrikdisConfig 1.66.34 E16_1000 — 🗆 🗙						
Program Action	M About						
	Read [F4] Write [F5]	Open [F8]	Save [F9]		1	Disconn	ect
System settings	General		Access				
CMS reporting	Object ID 1	1122	Administrator code	123456			
User reporting	Security panel model	4. PARADOX SP4000, S -	Installer code	654321			
Ethernet settings	Remote Arm/Disarm		Only an administrator can rest	ore 🔽			
IN/OUT		4477					
RS485 modules	Security panel PC download password	44//	Allow installer to change				

- 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.

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

TrikdisConfig 1.66.34 E16_1000	0	- 🗆 X
🔅 Program 🖉 Action	@ About	
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect
System settings	CMS settings Settings	
CMS reporting	Primary channel Parallel channel	
User reporting	Communication type IIP - 3 Communication type Disable	•
Ethernet settings	Protocol	
IN/OUT	TRK encryption key Domain or IP 155.14.178.152 6	
RS485 modules		
Event summary	Port 33448	
Firmware	TCP or UDP	
Remember password Show passwords Default settings Restore	Primary channel Backup Protocol TRK encryption key Domain or IP Port TCP or UDP TCP	

- 3. Communication type select the IP connection method.
- 4. **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-GARD 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 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) Configure Parallel Channel and its Parallel Channel Backup settings.

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

Note: For more information about other *E16* settings in *TrikdisConfig*, see chapter 6 "TrikdisConfig window description".

3 Installation and wiring

3.1 Schematics for wiring the communicator to a security control panel

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

DSC panel connection diagram



PARADOX panel connection diagram



TEXECOM panel connection diagram

CADDX panel connection diagram









3.2 Schematic for connecting to panel keyswitch zone

Follow this schematic if the control panel will be armed/disarmed with a **E16** PGM output turning on/off the panel's keyswitch zone.

Note: E16 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".



3.3 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 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:





3.4 Connect LAN cable



3.5 Schematics for wiring a relay



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 series expansion modules

If more inputs or outputs need to be connected to the communicator, or if you want to connect a temperature sensor, connect the TRIKDIS *iO* series wired or wireless output expander. Configuration of expander modules connected to the *E16* is described in chapter 6.6 ""RS485 modules" window".



3.7 Turn on the communicator

To start the communicator, turn on the security control panel's power supply. This LED indication on the *E16* communicator must show:

- "POWER" LED illuminates green when the power is on;
- "NETWORK" LED illuminates green, when the communicator is connected to the network.



Note:If you see a different LED indication, it indicates a certain malfunction. Diagnose it by following the LED
indication table in chapter 1.5 "LED indication of operation".If the *E16* 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 *E16* 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 *E16* communicator's PC login password).
- 4. Press [Yes] and leave the programming mode by pressing [Menu].

UTC INTERLOGIX (CADDX)

Security control panel version must be **V2** or higher 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
93	3	12345678





Position	Segment	Setting
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: <u>https://skytunnel.com.au/inception/SERIALNUMBER</u>, 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.

Innerrange Integriti security control panel version must be **19.1.0.36608** or higher, the professional software version **19.1.0.15396** or higher.

Specify the Trikdis communication protocol in the control panel configuration program. Contact ID data format. The port (TTL Port-0) of the security panel, to which the *E16* communicator is connected, has the settings 19200, 8, N, 1. Save the settings and exit the program.

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:

- Enter the programming mode. Enter the installer code 4][1][1][2] and after that [8][0][0]. Alternatively, turn on the panel's power supply. In 50 seconds after the power supply is turned on, press the buttons [*] and [#] at the same time (this method can be used when programming mode was exited by pressing in keypad [*][9][8]).
- 2. Turn on the sending of Contact ID events via LRR. Press [*][2][9][1][#] in keypad.



3. When using the "Remote Arm/Disarm" function, allow to use the 2nd AUI address. In keypad press [*][1][8][9][1][1][#]. Exit the programming mode. In keypad press [*][9][9]

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: <u>www.protegus.eu/login</u>.



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

Important: When adding the E16 to Protegus2 check if:

- 1. *Protegus cloud* is enabled. See chapter 6.4 ""User reporting" windows";
- 2. Power supply is connected ("POWER" LED illuminates green);
- 3. Registered to the network ("NETWORK" LED illuminates green).
- Click "Add new system" and enter the *E16*'s "MAC" 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 *E16* output OUT is connected to has to be set to keyswitch mode.

Follow the instructions below if the security control panel will be controlled with a *E16* 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".

Cancel

Save



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1 Area

Skip

Controlled with: PGM1

公31

Areas

Click to add an area

0

Next

- 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.

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.



6 TrikdisConfig window description

6.1 TrikdisConfig status bar description

After connecting the *E16* and clicking **Read [F4]**, *TrikdisConfig* will provide information about the connected device in the status bar:

MAC/Unique ID: 5410ECAA0842	
Status: reading done Device E	16_1000 SN:000024 BL: 1.00 FW:1.10 HW: 0.01 State HID Administrator
Object	Description
MAC/Unique ID	Device MAC number
Status	Operating condition
Device	Device type (<i>E16</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)



Object	Description
Administrator	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 **E16**. Set the necessary settings according to the **TrikdisConfig** window descriptions given below.

6.2 "System settings" window

# TrikdisConfig 1.66.34 E16_1000			- 🗆 X
🔅 Program 🎤 Action 💷 About			
Read [F4] Wr	ite [F5] Open [F8]	Save [F9]	Disconnect
System settings General		Access	
CMS reporting Object ID	1122	Administrator code 123456	
User reporting Security panel model	4. PARADOX SP4000, S	Installer code 654321	
Ethernet settings Remote Arm/Disarm		Only an administrator can restore	
IN/OUT			
RS485 modules Security panel PC down	nioad password	Allow installer to change	
Event summary Time set	Cloud application ~	Account number	
Firmware		CMS reporting	
		User reporting	
		Ethernet settings	
		Event summary	
Remember password			
Show passwords			

"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 model that will be connected to the communicator.
- **Remote Arm/Disarm** when the checkbox is selected, the *E16* 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 *E16* 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

Program 🌮 Action	Read [F4] Write [F5]	1	Open [F8]	Save [F9]		Disconnec
stem settings	CMS settings Settings					
AS reporting	Primary channel			Parallel channel		
er reporting	Communication type	Disable	•	Communication type	IP	•
hernet settings	Protocol		*	Protocol	TRK	•
/OUT	TRK encryption key	•••••		TRK encryption key	•••••	
485 modules	Domain or IP			Domain or IP		
ent summary	Port			Port		
mware	TCP or UDP	ТСР	*	TCP or UDP	TCP	*
	Primary channel Backup	Disable	*	Parallel channel Backup	IP	-
	Protocol			Protocol	TRK	*
	TRK encryption key			TRK encryption key		
ember password	Domain or IP			Domain or IP		
v passwords	Port			Port		
ault settings	TCP or UDP	TCP	*	TCP or UDP	TCP	*
Restore						
/Unique ID: DECAA0842						

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

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

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

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

"Primary channel" settings group

- Communication type select which method for connecting to the monitoring station receiver will be used (IP).
- **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-GARD 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.

"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.



"Settings" tab

1							- 🗆 X
M About							
Read [F4] Write [F5]	1		0	pen [Fi	8] Sa	ave [F9]	Disconnect
CMS settings Settings							
Settings						DC-09 Settings	
Test period	7	24	h	0	min	Object ID in DC-09	123456
IP ping period	•	0	min	30	5	DC-09 line No	1
Receiver and line number		00	RR	0	L	DC-09 receiver No.	1
Backup reporting after		2			fails		
Return from Backup after		1	min	30	5		
	About Read [F4] Write [F5] CMS settings Settings Settings Test period IP ping period Receiver and line number Backup reporting after	Mout Read [F4] Write [F5] CMS settings Settings Settings Test period IP ping period Receiver and line number Backup reporting after	About Read [F4] Write [F5] CMS settings Settings Settings Image: Comparison of the set	About Read [F4] Write [F5] 0 CMS settings Settings Test period P ping period Receiver and line number Backup reporting after Deturn fore Parken after	About Read [F4] Write [F5] Open [F1] CMS settings Settings Settings Image: Comparison of the set of the	About Read [F4] Write [F5] Open [F8] Sa CMS settings Settings Settings Settings Image: Comparison of the set of the se	About Read [F4] Write [F5] Open [F8] Save [F9] CMS settings Settings Settings DC-09 Settings Settings DC-09 Settings Dispersion Dispersion IP ping period Image: Provide the set of the

"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 *E16* will attempt to reconnect and transmit messages via the Primary channel.

"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. <u>The object number entered in this field will be used if DC-09 encoding is</u> <u>selected</u>. 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

📫 TrikdisConfig 1.66.34 E16_100	0	- 🗆 X
🔅 Program 🎤 Action	About	
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect
System settings	PROTEGUS Cloud	
CMS reporting		
User reporting	PROTEGUS Cloud	
Ethernet settings	Enable connection	
IN/OUT	PROTEGUS Cloud access Code	
RS485 modules		

Protegus service allows users to remotely monitor and control the communicator. For more information about *Protegus* service, visit <u>www.protegus.eu</u>.

"Protegus Cloud" settings group

- Enable connection enable the *Protegus* service, the *E16* 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).

6.5 "Ethernet settings" window

TrikdisConfig 1.66.34 E16_100	00		- 0 3
🚱 Program 🔑 Action	M About		
	Read [F4] Write [F5]	Open [F8] Save [F9]	Disconnect
System settings	Ethernet settings		
CMS reporting	Use DHCP		
User reporting	Static IP	0.0.0	
Ethernet settings	Subnet mask	255.255.255.0	
IN/OUT	Default gateway	0.0.0.0	
RS485 modules	DNS 1		
Event summary		8.8.8.8	
Firmware	DNS 2	8.8.4.4	

"Ethernet settings" settings group

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



6.6 "IN/OUT" windows

TrikdisConfig 1.66.34 E16_100	00												1		×
🔅 Program 🔑 Action	🛄 Ab	out													
	Read	[F4] Write [F5]			0	Open [Fi	8]	Save [F9]				1	Discon	nect
System settings	Termina	al Function		Туре	e e										
CMS reporting	1	Disabled													
User reporting	2	IN		NO											
Ethernet settings	3	Disabled		~											
IN/OUT		IN													
RS485 modules		OUT													
Event summary			Contact	ID event	code			Contact	ID restore	code					
Firmware	Event		Enable	E/R	CID	Part.	Zone	Enable	E/R	CID	Part.	Zone			
	IN2_A	LARM	-	Event	130	99	002	~	Restore	130	99	002			
	IN2_TA	AMPER	~	Event	144	99	002		Restore	144	99	002			

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, NO / DEOL, NC / DEOL.

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

- Enable checked event fields where messages will be sent to CMS and Protegus2.
- **E/R** choose what type of event will be sent when input is triggered **Event** or **Restore**.
- **CID** enter the event code or leave the default value. Upon entering the event, the event code will be sent to *Protegus2* and CMS.
- 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

"Modules list" tab

iO series expanders can be connected to the communicator to add additional inputs, outputs and serial buses for temperature sensors. Connected expanders must be added to the **Modules list** table.

TrikdisConfig 1.66.34 E16_100	10	- 🗆 X
😰 Program 🖉 Action	Ma About	
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect
System settings	Modules list Module 1	
CMS reporting	ID Module Type Serial No	
User reporting	1 Fynander i0-8 Y 000003	
Ethernet settings	2 Not Available	
IN/OUT	3 Expander IO	
RS485 modules	4 Expander IO-WL Expander IO-LO	
Event summary	Expander LO-MOD	
Firmware	Expander iO-8	

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. 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* and *iO* series expanders.



iO-8 expander settings window

f TrikdisConfig 1.66.34 E16_10	00													9 -1 3	1
🔂 Program 🛛 🔑 Action	M About														
	Read [F4] W	/rite [F5]				Open	F8]	Save [[F9])	D
System settings	Modules list Modu	ıle 1													
CMS reporting	Expander iO-8														
User reporting															
Ethernet settings	Serial No	0000	1/17/17/												
IN/OUT	Input Count	3	+							Show	Object I	D			
RS485 modules		Contact	ID event o	ode			Contact	ID restore	code			1			
Event summary	Event	Enable	E/R	CID	Part.	Zone	Enable	E/R	CID	Part.	Zone	Object	Input type		
Firmware	BUS_FAULT		Event	333	91	001		Restore	333	91	001				
	INPUT1		Event	130	91	001	•	Restore	130	91	001		NO		
	INPUT2	\checkmark	Event	130	91	002	-	Restore	130	91	002		NO		
	INPUT3	 Image: A start of the start of	Event	130	91	003	-	Restore	130	91	003		NO		

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.

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.

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.
- Input type select the type of the input (NO or NC).



iO expander settings window

TrikdisConfig 1.66.34 E16_1000)														_		×
🔅 Program 🖉 Action	M About																
	Read [F4] Writ	e [F5]				Open [[8]	Save [F	9]						1	iscon	inect
System settings	Modules list Module	1															
CMS reporting	Expander IO																
User reporting	Serial No	0000	03														
Ethernet settings																	
IN/OUT	Input IN1 type	NO	*														
RS485 modules	Max °C(T1)	30															
Event summary	Min *C(T2)	15															
Firmware	Relay control	lf	T>T1		- A	ND	* Nor	e	• the	in (OFF	.*	0	h	0 mir	0	s
		Contact	ID event	code			Contact	ID restore	code								
	Event	Enable	E/R	CID	Part.	Zone	Enable	E/R	CID	Part.	Zone						
	INPUT	-	Event	130	91	001	-	Restore	130	91	001						
Remember password	HIGH_TEMPERATURE		Event	158	91	001	~	Restore	158	91	001						
Show passwords	LOW_TEMPERATURE	-	Event	159	91	001	1	Restore	159	91	001						
Default settings	BUS_FAULT		Event	333	91	001	•	Restore	333	91	001						

Expander *iO* has: terminals for 1 input, 1 output (relay contacts) and 1-Wire serial bus for connecting temperature sensors. Relay output can be controlled according to logical (AND, OR, XOR) conditions.

- Input IN1 type set the input type (NO or NC).
- Max °C(T1) when the temperature is higher than this setting, an event message will be generated. For an event message to be generated, it must be enabled in the table.
- Min °C(T2) when the temperature is lower than this setting, an event message will be generated. For an event message to be generated, it must be enabled in the table.
- Relay control set logical (AND, OR, XOR) conditions, upon which the relay output will be controlled.

In the table inputs can be assigned Contact ID event and restore codes. After an input is triggered, the communicator will send an event with the set event code to the monitoring station receiver and to *Protegus2* app. Set as described in the previous page about **iO-8 expander settings window**.

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.

TrikdisConfig 1.66.34 E16_10												 		
🔅 Program 🧳 Action	M About													
	Read [F4] Write [F5	1			Open	[F8]	Save	[F9]				1	Disconr	nect
System settings]	Contac	ID event	code			Contact	ID restore	code					
CMS reporting	Event	Enable	E/R	CID	Part.	Zone	Enable	E/R	CID	Part.	Zone			
	COMMUNICATION		Event	350	99	999		Restore	350	99	999			
User reporting	POWER	1	Event	302	99	999	1	Restore	302	99	999			
Ethernet settings	REMOTE_FINISHED	1	Event	412	99	999		Event						
IN/OUT	REMOTE_STARTED	-	Event	411	99	999		Event						
	START	1	Event	700	99	999		Event						
RS485 modules	TEST		Event	602	99	999		Event						

- COMMUNICATION message about connection error between the control panel and E16.
- **POWER** message about low power supply voltage.
- **REMOTE_STARTED** message about remote connection to configure *E16* with *TrikdisConfig*.
- REMOTE_FINISHED message about disconnection from remote configuration with TrikdisConfig.
- **START** message about *E16* 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.

MAC/	It settings Restore Unique ID: ECAA0842									
Statu	s: reading done	Device	E16_1000	SN: 000024	BL: 1.00	FW:1.10	HW: 0.01	State	HID	Administrator

7 Remote configuration

Important: Remote configuration will work only if:

- 1. Protegus cloud is enabled. How to enable cloud is described in section 6.4 ""User reporting" window";
- 2. Power supply is connected ("POWER" LED illuminates green);
- 3. Registered to the network ("NETWORK" LED illuminates green).
- 1. Start the configuration program *TrikdisConfig*.
- 2. In the **Remote access** section enter the communicator's **MAC** number. This number can be found on the device and the packaging sticker.

Remote access					
	Unique ID	System Name	_		
Choose module			<u></u>	Configure	Control

- 3. (Optional) in the System name field, enter the desired name for the E16 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**.

TrikdisConfig 1.66.34 E16_100	0					- 🗆 X
🔅 Program 🔑 Action	M About					
	Read [F4]	Write [F5]	Open [F8]	Save [F9]		Disconnect
System settings	Firmware					
CMS reporting						
User reporting						
Ethernet settings	Open					
IN/OUT					Open firmware	
RS485 modules						
Event summary					Update [F12]	
Firmware						
			0%			
Remember password						
Show passwords						

- 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 *E16* communicator.
- 5. Press Update [F12].
- 6. Wait for the update to complete.



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	"КА"
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 failure (304)	E304	"YF"



System Event	CID Report Code	SIA Report Code
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"
Alarm cancelled by user: <v></v>	E406	"BC"



System Event	CID Report Code	SIA Report Code
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	"Al"
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	"ОК"
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"
Time/Date was reset by user <v></v>	E625	"JT"



System Event	CID Report Code	SIA Report Code
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	"нн"
Panic alarm restored in zone: <z></z>	R125	"нн"
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	"КН"
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"
No more system failure (304)	R304	"YG"



System Event	CID Report Code	SIA Report Code
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	"ҮК"
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	"ҮК"
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	"СК"
User <v> disarmed too late</v>	R452	"CJ"
User <v> Failed to Disarm</v>	R454	"CI"
Partial Arm by user: <v></v>	R456	"CG"



"Ethernet" communicator E16

System Event	CID Report Code	SIA Report Code
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	"ҮК"
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"