



Security control panel

“FLEXi” SP3_44

Installation and programming manual

May, 2021



Table of contents

1	DESCRIPTION	6
1.1	TECHNICAL SPECIFICATIONS	7
1.2	LIST OF COMPATIBLE MODULES.....	9
1.3	PURPOSE OF EXTERNAL TERMINALS	10
1.4	LED INDICATION OF OPERATION	11
2	POWERING THE SECURITY CONTROL PANEL.....	11
2.1	MAIN POWER SUPPLY.....	11
2.2	BACKUP POWER SUPPLY.....	11
2.3	CONTROL PANEL KITS.....	12
2.3.1	<i>Control panel „FLEXi“ SP3_44</i>	<i>12</i>
2.3.2	<i>Control panel „FLEXi“ SP3_44 KIT</i>	<i>12</i>
2.3.3	<i>Control panel „FLEXi“ SP3_44_KITi</i>	<i>12</i>
3	INSTALLATION OF THE SYSTEM	13
3.1	RECOMMENDED ORDER OF INSTALLATION	13
3.1.1	<i>Installing the control panel into the mounting housing.....</i>	<i>13</i>
3.1.2	<i>Order of connecting devices.....</i>	<i>14</i>
3.1.3	<i>Recommendations for setting the control panel's parameters</i>	<i>14</i>
3.2	CONNECTING SENSORS	15
3.3	CONNECTING SMOKE DETECTORS.....	16
3.4	SCHEMATIC FOR CONNECTING A SIREN	17
3.5	SCHEMATICS FOR CONNECTING KEYPADS AND RFID READERS (WIEGAND 26/34).....	17
3.6	SCHEMATICS FOR CONNECTING TM17, CZ-DALLAS READERS.....	19
3.7	SCHEMATIC FOR CONNECTING A TEMPERATURE SENSOR	20
3.8	SCHEMATICS FOR CONNECTING A RELAY AND AN LED INDICATOR	20
3.9	SCHEMATIC FOR CONNECTING ETHERNET COMMUNICATOR E485	20
3.10	SCHEMATIC FOR CONNECTING RF-SH.....	20
3.11	SCHEMATICS FOR CONNECTING IO SERIES EXPANDER MODULES.....	21
3.12	SCHEMATICS FOR CONNECTING RF TRANSMITTER T16	21
3.13	SCHEMATICS FOR CONNECTING SF485	21
3.14	TURNING ON THE CONTROL PANEL	21
4	REMOTE CONTROL.....	21
4.1	LINKING THE „FLEXi“ SP3_44 TO A USER'S PROTEGUS ACCOUNT	21
4.2	ARMING/DISARMING THE SYSTEM USING PROTEGUS	22
4.3	CONFIGURATION AND CONTROL VIA SMS MESSAGES.....	23
4.4	CONTROL VIA PHONE CALL.....	24
5	SETTING PARAMETERS USING TRIKDISCONFIG SOFTWARE	25
5.1	DESCRIPTION OF TRIKDISCONFIG STATUS BAR.....	25
5.2	“SYSTEM OPTIONS” WINDOW.....	26
5.3	“REPORTING TO CMS” WINDOW	30
5.4	“USERS & REPORTING” WINDOW	32
5.4.1	<i>Linking RFID key fobs (cards)</i>	<i>33</i>
5.4.2	<i>Linking electronic (iButton) keys.....</i>	<i>33</i>
5.5	“MODULES” WINDOW	34
5.6	“WIRELESS” WINDOW.....	36
5.6.1	<i>Linking the wireless equipment transceiver RF-SH to the „FLEXi“ SP3_44 control panel.....</i>	<i>36</i>
5.6.2	<i>Linking wireless (FW2 series) sensors</i>	<i>37</i>



5.6.3	Linking a wireless (FW2 series) remote controller	37
5.6.4	Linking a wireless (FW2 series) siren.....	38
5.6.5	Linking wireless (SH series) sensors	38
5.6.6	Linking a wireless (SH series) keypad.....	39
5.7	“ZONES” WINDOW	40
5.8	“PGM” WINDOW	41
5.9	“SENSORS” WINDOW	45
5.10	“SYSTEM EVENTS” WINDOW	45
5.11	“EVENTS LOG” WINDOW.....	46
5.12	RESTORE DEFAULT SETTINGS	47
5.13	UPDATING FIRMWARE	47



Warranty and limitation of liability

The control panel is given a 24-month warranty effective from the date of sale-purchase. For the duration of the warranty period, free repairs are guaranteed for faults caused by the manufacturer.

The warranty is valid if the control panel was installed by qualified personnel following the instructions in this document and the applicable regulations for installing electrical equipment and operated following the instructions in this document and the applicable regulations for safe operation of electrical equipment.

The control panel must be submitted for repairs in the manufacturer's packaging along with a defect report stating the nature of the malfunction.

Once the warranty has expired, the control panel's technical maintenance and repairs are performed at the buyer's expense.

The warranty can be terminated prematurely if:

- Unauthorized personnel repaired or tried to repair the control panel;
- The panel was used for anything other than its intended purpose;
- The panel was stored and (or) installed in unsuitable premises that had incompatible climate conditions or an aggressive chemical environment;
- The panel was mechanically broken and (or) intentionally damaged;
- The panel was damaged by *force majeure* circumstances (lightning discharge etc.).

The manufacturer is not responsible for:

- the control panel's malfunctions if the panel is installed or used not according to its manual.
- the control panel's malfunctions if the cause is a malfunction or loss of GSM/GPRS/Internet connectivity or malfunctions in the operator's network.
- restrictions or termination of GSM/GPRS/Internet connectivity services to the panel's buyer or user, and shall not compensate the panel's buyer or user for any property or non-property damages suffered from this.
- restrictions or termination of electricity supply service to the panel's buyer or user, and shall not compensate the panel's buyer or user for any property or non-property damages suffered from this.
- robbery, fire of the premises or any other losses suffered by the panel's buyer or user, and shall not compensate the panel's buyer or user for any property or non-property damages suffered from these events.



Safety precautions

Read this manual carefully before using the control panel.

The „FLEXi“ SP3_44 control panel is an electrical device, which means it must be installed and serviced only by qualified personnel following the instructions in this document and applicable regulations for installing electrical equipment.

Power to the panel must be switched off during installation!

The control panel must be installed in a limited access location inside the premises and maintaining a safe distance from sensitive electronic equipment. The panel is not resistant to vibrations, other mechanical effects, humidity and aggressive chemical environments. The control panel complies with the demands applicable to Class II environmental specification of the EN 50131 standard.



The casings, transformers, batteries and programming equipment used must meet the safety requirements of the EN 60950 standard.

The device is powered from a 230 V voltage 50 Hz frequency power grid through a Class II step-down transformer that reduces the voltage to 16 – 18 V or from a 16 – 24 V DC power supply. A 12 V battery with at least 7 Ah capacity is used as a backup power supply. The current consumption depends on the power of the connected external devices.

A two-pole automatic safety switch must be installed in the power supply circuit for protection. The gap between switch off contacts must be at least 3mm. The safety switch must be installed in a location known to the specialists servicing the control panel.

To disconnect the control panel from the power network:

- from the AC network – switch off the automatic safety switch;
- from the battery – disconnect the terminals.



1 Description

The „FLEXi“ SP3_44 control panel is a processor part of intrusion and fire alarm system. It comes with a built-in LAN module and 4G cellular modem. The „FLEXi“ SP3_44 allows grouping of 32 wired and wireless zones into an 8 partition system. Users can switch protection modes of different areas of the premises remotely and with ease (with mobile app **Protequs**, SMS or phone call) or with devices that support personal identification (wired and wireless keypads, electronic keys, RFID cards, etc.). Any triggered system event is reported to the central monitoring station (CMS) and to **Protequs** cloud via LAN and (or) via cellular network if a SIM card is inserted.

When it's recommended to choose the „FLEXi“ SP3_44 control panel?

- For securing small or medium sized premises which will be monitored by a security company. The „FLEXi“ SP3_44 supports both wired and wireless zones. The panel can provide remote control and system information to both end-users and the security company.
- As a replacement for existing intrusion alarm panel. „FLEXi“ SP3_44 allows to set a different resistor value to the type used with the old alarm panel. This saves a lot of time during installation, as then there is no need to change resistors in each sensor.
- When the alarm system needs to perform more functions than just protection of the premises. For example: opening the doors and gates, watering the lawn, lighting, heating, ventilation, cooling, controlling as well as many other automatic start and stop functions.

Features

Reporting to the security company's central monitoring station (CMS):

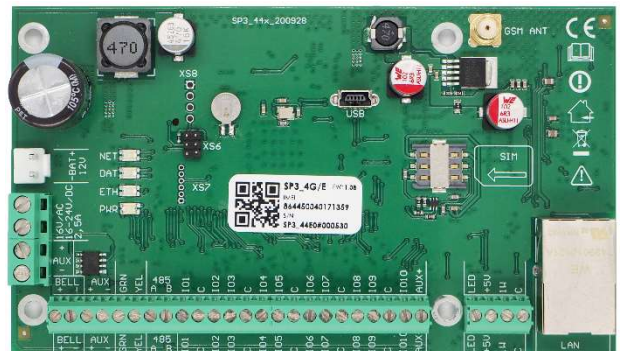
- Event reporting either via the built-in LAN module or cellular 4G modem.
- Additional modules to send reports via Ethernet or VHF/UHF radio waves or Sigfox with chosen priority.
- Any CMS can receive reports, as long as they have TRIKDIS software/IP receiver or any other manufacturer's IP receiver supporting SIA DC-09 IP protocol.
- Design based on two decades of experience in transmitting reports to main and backup central monitoring station receivers, which allows security companies to provide the highest level of protection to premises
- A setting for necessity to send to CMS, to mandatorily send reports to CMS first, and only then to customers.
- Possibility to send event reports to CMS of two different security companies.
- Multitude number of message transmission channels and multiple transmission priority settings.

Reporting to user:

- Via **Protequs** mobile app, which gives warnings about alarm system events using push and special sound notifications.
- Event reporting via SMS messages to 8 cellular numbers.
- Reporting of events using a call (up to 8 cellular numbers).
- Remote control of selected premises' protection mode (Arm/Disarm/Stay/Sleep).
- Remote control of connected devices (lighting system, automatic gates, ventilation, heating, watering systems, etc.).
- Remote temperature measuring.

Inputs and outputs:

- 10 I/O terminals, each one can be set as an input (IN) or output (OUT). Input (IN) types: ATZ, EOL, NC, NO. Different parameters of resistors can be used in EOL and ATZ type circuits. The number of inputs IN can be expanded to 32 by using keypads, iO-8 and iO-WL expander modules.
- The board has 2 dedicated outputs: the bell and the LED. The bell is to control the siren, and the LED is to control indicator lights. The number of outputs can be expanded to 16 by using iO-8 and iO-WL expander modules.
- Seven output operational settings. Each output can be assigned with an operational logic, a preset operation schedule or qualities, for example, thermostat mode.





- One-wire data bus (“1-Wire”) is designated to connect temperature sensors (up to 8), a temperature and humidity sensor (1) or a key fob (“iButton”) reader.
- The GRN-YEL data bus is designated to connect 8 keypads of the same type.
- The RS485 data bus connects **iO** series expander modules, **RF-SH** radio wave wireless sensor transceiver, **E485** Ethernet module, **T16** VHF or UHF radio wave transmitter, **Sigfox** module.

Control of alarm system

- 4-digit long control codes (40 in total), which may be used as a coercion code as well. In such scenario, entering the user code will disarm the alarm, yet a special report will be sent to the CMS indicating that the alarm was disarmed as a result of coercion.
- Control using keypads: Protegus SK232LED W; Paradox K636, K10H(V) K32+LED, K32LED, K32LCD+, K35, TM50, TM70; Crow keypad CR16, CR-LCD; CZ-Dallas electronic (“iButton”) key reader; TM17 electronic key reader, RFID reader (Wiegand 26/34).
- Remote control via **Protegus** mobile app, phone call or SMS.

Simple installation:

- Multiple sizes of „FLEXi“ SP3_44 mounting kits that include a decorative white metal housing with a built-in step-down transformer or impulse power supply.
- Default „FLEXi“ SP3_44 operational settings are based on many years of experience. That allows to install the system in 7 out of 10 small and medium-sized premises without the need to change the default settings.
- The „FLEXi“ SP3_44 control panel allows to replace the previous panel without changing the resistors in each wired sensor.
- Settings can be saved as a file to be used later.
- Device configuration via USB cable or remotely by using **TrikdisConfig** software.
- Remote connection via **TrikdisConfig** software allows not only altering „FLEXi“ SP3_44 parameters but monitoring the operation of the panel as well.
- Two access levels for parameter settings: installer and administrator.

1.1 Technical specifications

Parameter	Description
Power supply voltage[AC / DC]	16 V AC or 16-24 V DC, 2,5 A
Current consumption	Up to 50 mA (stand-by), Up to 200 mA (short-term, while sending)
Backup power source [BAT]	12 V lead – acid battery, 4 Ah/7 Ah
Battery charge current	Up to 500 mA
Power voltage and current for external devices [AUX]	12 V DC, up to 1 A
Siren output [BELL]	1 A
Output [LED]	0,1 A
PGM output	0,1 A
LAN module	Yes, built-in
LAN network configuration type	DHCP or manual
SIM card	1, NANO size
4G modem frequencies „FLEXi“ SP3_44E EMEA/Thailand	B1/B3/B7/B8/B20/B28
4G modem frequencies „FLEXi“ SP3_44S Latin America/Australia/New Zealand	B1/B3/B4/B5/B7/B8/B28



Parameter	Description
4G modem frequencies „FLEXi“ SP3_44A North America	B2/B4/B12
Report transmission directions	<ul style="list-style-type: none">- To main and backup receivers of 2 different security companies;- To Protegeus cloud, to iOS/Android Protegeus mobile apps;- To 8 mobile phones via SMS messages.- Calls 8 mobile phones.
Event reporting transmission channels	4G, Ethernet (LAN), LAN (with module E485), SMS, call, VHF/UHF radio waves (with transmitter T16), Sigfox (module SF485)
Protocols for connection to CMS	TCP / IP or UDP / IP, or SMS
Event encoding	Contact ID codes
Report encryption	TRK AES 128, SIA IP AES 128
Internal clock	Yes
Buffer memory capacity	60 events
Events log memory	Up to 1000 events. Oldest entries deleted automatically.
User codes	40
Duress code	Two code entry methods can be chosen during programming
Dual purpose terminals [I/O]	10; IN or OUT function selected during programming. When IN is selected, available types: NC, NO, EOL, EOL_T, ATZ, ATZ_T. When OUT is selected, the terminal becomes open collector (OC) type with up to 100 mA current
No. of partitions	8
No. of zones	10 (20 zones if using ATZ), (can be expanded to 32 zones using expanders)
No. of PGM outputs	2 (can be 12 if IO terminals are set as outputs. Can be expanded to 16 outputs with expanders)
Max. number of connected keypads	8
Supported keypads	Protegeus SK232 LED W Paradox K636 Paradox K10H(V) Paradox K32 LED Paradox K32+ LED Paradox K32LCD+ Paradox K35 Paradox TM50 Paradox TM70 Crow CR16 Crow CR-LCD
Max. number of RFID readers (Wiegand 26/34)	2
1-Wire data bus length [1 WIRE]	Up to 30 m
Compatible temperature sensors	Maxim®/Dallas® DS18S20, DS18B20; AM2301 series
Max. number of temperature sensors connected to 1-Wire data bus	8 (Dallas) or 1 (if an AM2301 series sensor is used)
Compatible electronic (<i>iButton</i>) keys [1 WIRE]	Maxim®/Dallas® DS1990A



Parameter	Description
Max. no. of electronic (<i>iButton</i>) keys	40
RS485 data bus length	Up to 100 m
Max. no. of devices connected to RS485 data bus	8
Supported modules	<i>iO-8</i> – expander module; <i>iO</i> – expander module; <i>iO-MOD</i> – iO-WL radio wave transceiver; <i>iO-WL</i> – wireless expander module; <i>RF-SH</i> – radio wave receiver for wireless sensors; <i>E485</i> – module for connecting to Ethernet network; <i>TM17</i> – iButton key reader; <i>CZ-Dallas</i> – iButton key reader; <i>T16</i> – VHF or UHF radio wave transmitter; <i>SF485</i> - Sigfox network connection module; RFID reader.
Operating environment	Temperature from -10 °C to +50 °C, relative humidity 80% at +20°C, no condensation.
Dimensions of the control panel	136x79x25 mm
Weight	0,1 kg

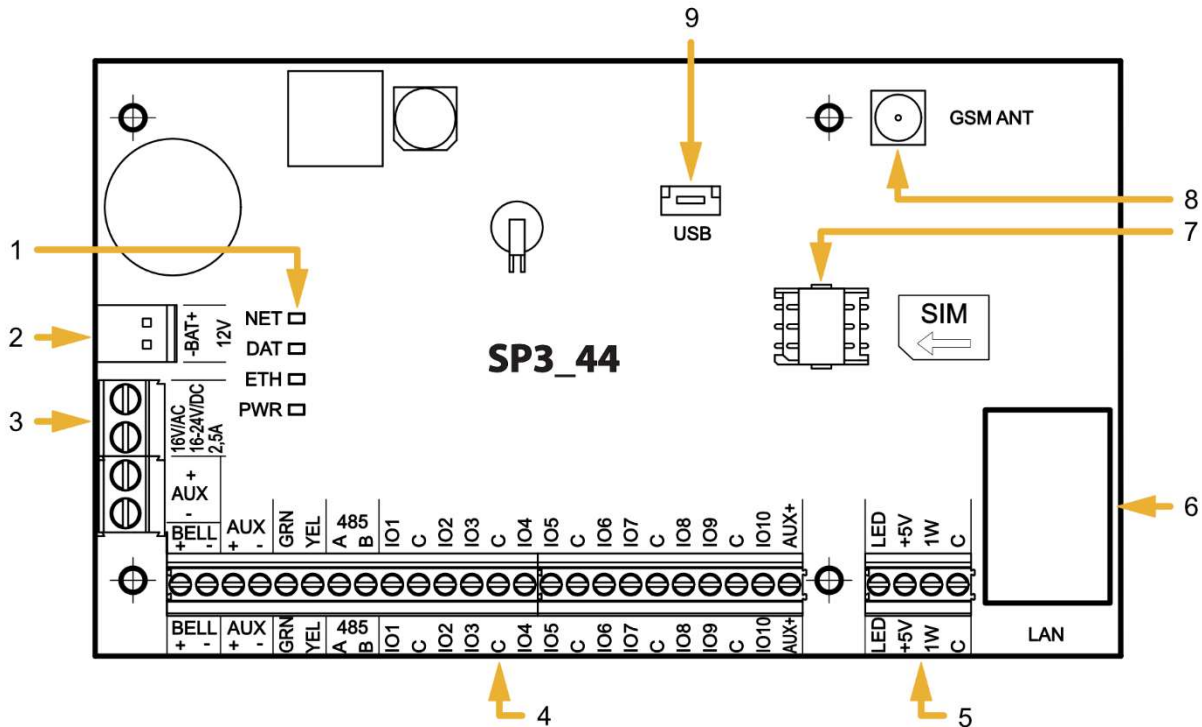
1.2 List of compatible modules

Module name	Current
Keypad Protegus SK232 LED W	Min 60 mA, max 150 mA
Keypad Paradox K636	Min 40 mA, max 70 mA
Keypad Paradox K10H(V)	Min 44 mA, max 72 mA
Keypad Paradox K32 LED	Min 49 mA, max 148 mA
Keypad Paradox K32+ LED	Min 49 mA, max 148 mA
Keypad Paradox K32LCD+	Min 70 mA, max 150 mA
Keypad Paradox K35	Min 30 mA, max 70 mA
Keypad Paradox TM50	Min 100 mA, max 230 mA
Keypad Paradox TM70	Min 200 mA, max 330 mA
Keypad Crow CR16	Min 40 mA, max 75 mA
Keypad Crow CR-LCD	Min 40 mA, max 75 mA
iO-8 expander module	Max 20 mA
iO expander module	Max 50 mA
iO-MOD – iO-WL radio wave transceiver	Min 50 mA, max 150 mA
iO-WL wireless expander module	Max 200 mA
RF-SH transceiver for wireless sensors	Max 100 mA
E485 Ethernet communicator	Min 50 mA, max 150 mA
TM17 iButton key reader	Max 50 mA
CZ-Dallas iButton key reader	Max 25 mA



Module name	Current
T16 (VHF or UHF) radio wave transmitter	Min 100 mA, max 1,2 A
SF485 Sigfox communicator	Max 100 mA
RFID reader (Wiegand 26/34)	Max 100 mA

1.3 Purpose of external terminals



- | | |
|---|---|
| 1. Connectivity and operation indicator lights. | 6. RJ45 LAN connector. |
| 2. Backup power supply terminal block. | 7. Nano-SIM card holder. |
| 3. Main power supply terminal block. | 8. SMA screw-on type connector for GSM antenna. |
| 4. External terminal block. | 9. USB Mini-B connector for configuring the control panel's settings. |
| 5. 1-WIRE data bus terminal block. | |

Terminal	Description
Power terminal	Power supply terminal (16 V AC or positive 16-24 V DC)
Power terminal	Power supply terminal (16 V AC or negative 16-24 V DC)
BAT+	Backup power supply positive terminal 12 V
BAT-	Backup power supply negative terminal 12 V
AUX+	Positive 12 V power terminal for external devices
AUX-	Common negative terminal
GRN	Keypad data bus
YEL	Keypad data bus
A 485	Terminal A of RS485 data bus
B 485	Terminal B of RS485 data bus
IO1 – IO9	Input/output terminals (default setting – input)
IO10	Input/output terminal (default setting – PGM output, Fire Sensor Reset)



Terminal	Description
C	Common negative terminal
LED	PGM output (default setting – System State)
+5 V	Positive 5 V power terminal for <i>1-Wire</i> devices
1 WIRE	<i>1-Wire</i> data bus terminal
C	Common negative terminal

1.4 LED indication of operation

LED indicator	Light status	Description
NET	Green blinking	SIM card is registering on GSM network.
	Green solid	SIM card registered on GSM network.
	Yellow blinking	Indicates GSM signal strength from 0 to 5. 3 is sufficient.
DAT	Off	No unsent event messages.
	Green solid	Message is being sent.
	Yellow solid	There are unsent event messages in buffer memory.
ETH	Green blinking	LAN cable disconnected or DHCP problem.
	Green solid	Connected to LAN network.
PWR	Green blinking	No operational problems.
	1 red flash	No SIM card detected
	2 red flashes	The PIN card of the SIM card is incorrect
	3 red flashes	Unable to connect to GSM network
	4 red flashes	Unable to connect to CMS receiver using channel 1
	5 red flashes	Unable to connect to CMS receiver using channel 2
	6 red flashes	Internal clock not set
	7 red flashes	Insufficient backup power supply voltage
	8 red flashes	No AC power
9 red flashes	Unable to connect to LAN network	

2 Powering the security control panel

2.1 Main power supply

The control panel and the entire alarm system can be powered either from an alternating or a direct current source. In both cases, a backup power supply – a 12 V battery – must be connected to the system to ensure the supply of power is uninterrupted. To meet the demands of the EN50131 standard, the backup battery must be able to work for 12 hours for security Grade II or 60 hours for security Grade III after losing power from the main power supply. Take into account the total current consumption of the additional connected modules, the current consumption of individual modules is listed in chapter 1.2 “List of compatible modules”.

2.2 Backup power supply

If there are problems with powering the system from the main power supply, an *AC Fault* event report will be generated and the panel will automatically switch to the backup 12 V battery. If the battery’s voltage falls to 11,5 V, a *Low Battery* event report will be generated. The battery will be disconnected if the voltage falls below 9,5 V. If AC network voltage is restored, an *AC*



Restore report will be generated and the battery charging process will begin automatically. When the battery's voltage rises to 12,6 V, a *Battery Restore* event report will be generated.

2.3 Control panel kits

2.3.1 Control panel „FLEXi“ SP3_44

Name	Quantity
„FLEXi“ SP3_44_44 control panel board	1 pc.
Wire for connecting battery	1 pc.
Resistor 2,2 kΩ	20 pcs.
Resistor 4,7 kΩ	10 pcs.
Plastic spacer (mounting parts)	4 pcs.
Antenna ME301M with 2,5 m long cable	1 pcs.

2.3.2 Control panel „FLEXi“ SP3_44 KIT

Name	Quantity
„FLEXi“ SP3_44_44 control panel board, built into metal housing	1 pc.
Metal housing K01 with 40 VA transformer	1 pc.
Resistor 2,2 kΩ	20 pcs.
Resistor 4,7 kΩ	10 pcs.
Antenna ME301M with 2,5 m long cable	1 pcs.
Wire for connecting battery	1 pc.
Tamper sensor	1 pc.
Terminal block with 0,5 A fuse	1 pc.

2.3.3 Control panel „FLEXi“ SP3_44_ KITi

Name	Quantity
„FLEXi“ SP3_44_44 control panel board, built into metal housing	1 pc.
Metal housing K02 with Mean Well impulse power supply	1 pc.
Resistor 2,2 kΩ	20 pcs.
Resistor 4,7 kΩ	10 pcs.
Antenna ME301M with 2,5 m long cable	1 pcs.
Wire for connecting battery	1 pc.
Tamper sensor	1 pc.
Terminal block with 3,15 A fuse	1 pc.

Note: USB wire (Mini-B type) for programming the control panel sold separately.



3 Installation of the system

3.1 Recommended order of installation

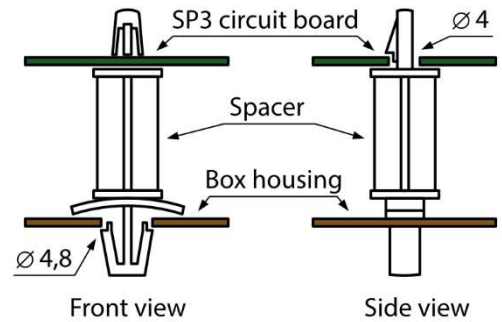
Planning the system:

- Sketch a plan of the premises and mark the areas where the metal housing with the control panel, keypad (-s), signallers, equipment automatically or remotely controlled by the control panel will be installed.
- After evaluating the premises, the demands raised for their protection and the characteristics of possible sensors, choose the number of sensors to use, their types, and the locations to install them.

3.1.1 Installing the control panel into the mounting housing

The control panel's board can be installed into a mounting housing that already has a step-down transformer with a 500 mA fuse installed and also has space intended for a backup battery.

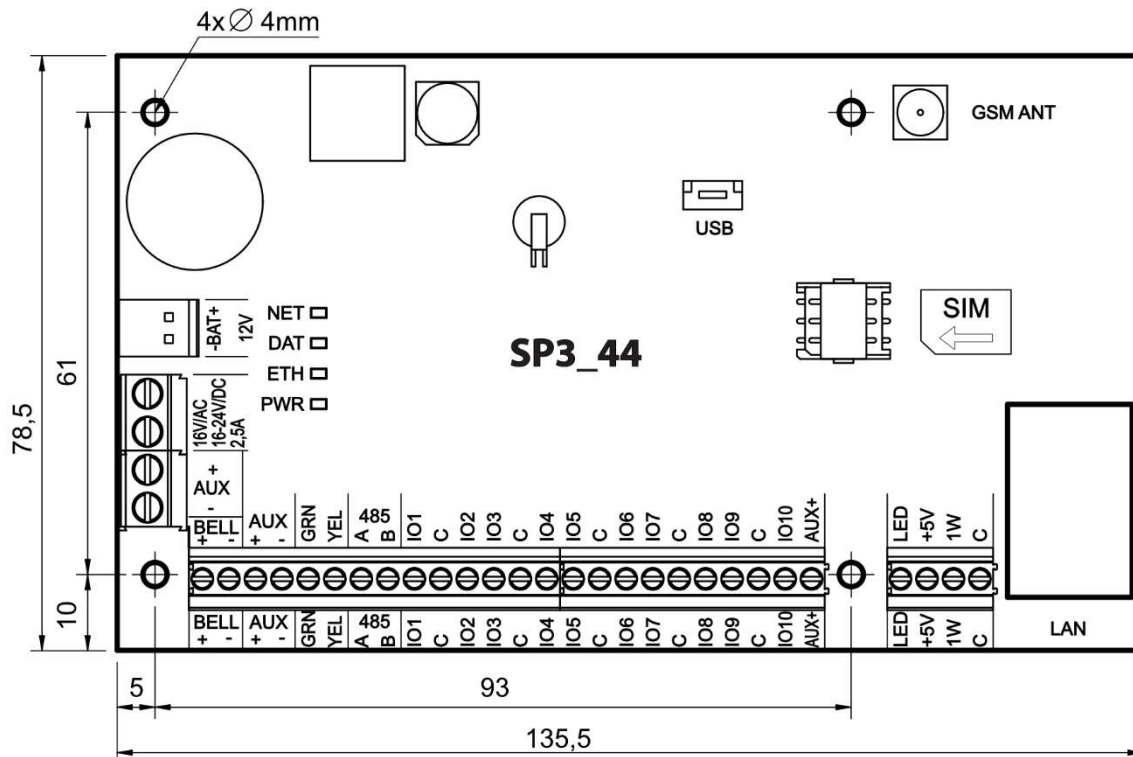
Install the control panel into the chosen plastic or metal housing using plastic spacers. If you chose a metal housing, do not forget to ground it during installation. The chosen housing must meet demands described in the EN 60950 and EN 50131 standards.



Plastic spacers.

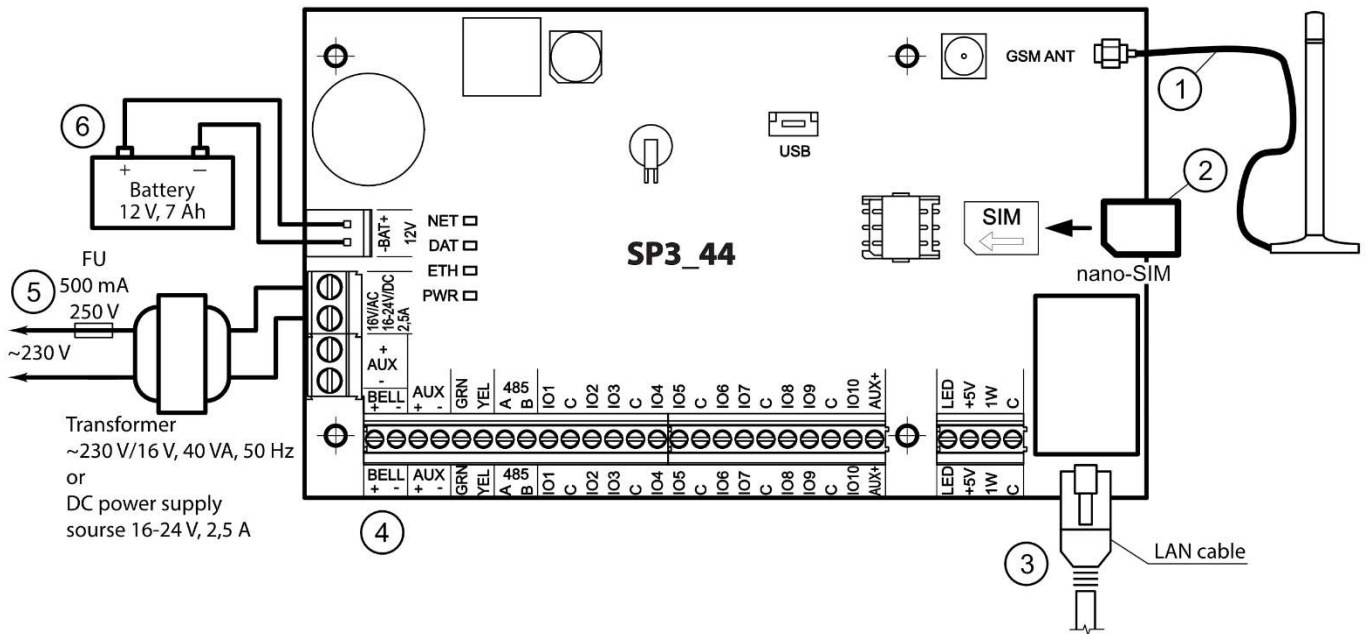
Dimensions of the „FLEXi“ SP3_44 board

The picture below shows the dimensions of the board and its mounting holes (in millimeters), and also the locations of the holes.





3.1.2 Order of connecting devices



1. Connect GSM antenna to the antenna connector.
2. Insert an activated SIM card into the SIM card holder.
3. Connect the LAN cable.
4. Using the given connection schematics and the connection schematics for every device to be connected, connect the door and window magnetic contacts, motion, fire and other sensors, signallers, keypads and controlled devices. Connect the housing door and wall mounting tamper sensors to the panel's terminals.
5. Connect the wires of the main power supply to the control panel's AC/DC terminals. Turn on the main power supply. The „FLEXi“ SP3_44 will recognize the keypads, expanders and interfaces that are correctly connected using 1-WIRE and YEL/GRN data buses.
6. Insert a backup battery into the mounting housing. Connect the battery's terminals to the BAT+ / BAT- terminals on the control panel.

Note: The battery must recharge in less than 72 hours for the alarm system to meet security Class II or 24 hours to meet security Class III.

3.1.3 Recommendations for setting the control panel's parameters

1. See chapter 5 "Setting parameters using TrikdisConfig" for information on how to connect to the panel to configure it.
2. System settings:
 - a. **Partitions.** If you would like to turn on protection for specific zone groups separately, the alarm system can be divided into partitions. See chapter 5.2 "System Options" window" on how to divide the system and set the required partition attributes.
 - b. **Zones.** See chapter 5.7 "Zones" window" to set every zone according to the sensors' characteristics and desired operation of the alarm after an event occurs in that zone. If the alarm system is divided into partitions, every zone can be assigned to a desired area.
 - c. **Users.** System users must be created to control the alarm system via keypad, iButton key or phone call (SMS message). See chapter 5.4 "Users & Reporting" window" on how to create users and assign them permissions.
3. Message sending:
 - a. **Time setting.** The control panel's time must be set in order to receive messages with exact timestamps. See chapter 5.2 "System Options" window".
 - b. **Enable report sending.** Default settings enable the event report sending function for all events. If any event occurs, its report will be sent to the set recipients using the set channels. See chapter 5.10 "System events" window" on how to disable reporting of chosen events.

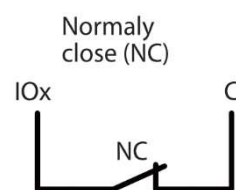
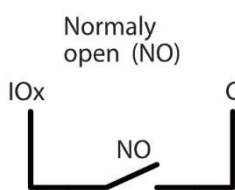


- c. **SIM card parameters.** If messages need to be sent using mobile networks, you must set parameters for the SIM card being used (see chapter 5.2 ““System Options” window”).
 - d. **Reports to central monitoring station.** Sending reports to the central monitoring station is disabled by default. See chapter 5.3 ““Reporting to CMS” window” on how to set parameters for sending messages to CMS.
 - e. **Reports to user.** Communication with *Protegas* cloud is enabled by default, and sending reports using SMS messages and phone calls is disabled. See chapter 5.10 ““System events” window” on how to set parameters for sending reports to the user’s mobile phone.
4. Remote control of the system:
 - a. **User access.** The alarm system can be controlled remotely (via phone call and (or) SMS messages) by users whose phone numbers are entered into the User list. See chapter 5.4 ““Users & Reporting” window” on how to enter phone numbers.
 - b. **Control via phone call.** Phone calls allow not only to arm or disarm all or part of the security system, but also to control (turn on or off) equipment connected to PGM outputs. See chapter 4.4 “Control via phone call” on what parameters to change to allow phone calls to modify the state of a selected PGM output that has an equipment control circuit connected to it.
 - c. **Control via SMS messages.** With SMS messages, it is possible to change some of the control panel’s operational parameters, arm or disarm all or part of the premises, control (turn on or off) equipment connected to the PGM outputs. See the list of SMS commands on chapter 4.3 “Configuration and control via SMS messages”.
 5. Additionally:
 - a. **Changing control codes.** We recommend changing the panel’s default alarm control and configuration codes to something only You know.
 - The **Master** user code can be changed in the branch **Users & Reporting** of the program menu.
 - The **remote SMS control** code can be changed in the **System Options** window of the program menu, in the **SMS Password** field of the **Access** section.
 - **Access codes for connecting with TrikidisConfig** can be changed in the **Access** section of the **System Options** branch of the program menu.

3.2 Connecting sensors

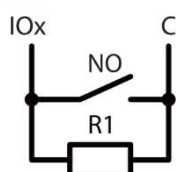
There are 10 terminals **IO1–IO10** (inputs) on the control panel board for connecting sensor circuits. The number of inputs can be expanded to 32 using input expanders (*iO*, *iO8*, *iO-WL*, *RF-SH*). Any terminal can be set as an input and assigned zone attributes: circuit type (NO, NC, EOL, EOL_T, ATZ, ATZ_T); sensitivity to temporary circuit events; zone function (Delay, Instant, Instant Stay, Interior, Interior Stay, Fire, Keyswitch, 24_hour, Silent, Silent 24h), see chapter 5.7 ““Zones” window”.

Schematics for connecting sensors.

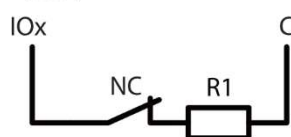


RT	R1	R2
2.2k	2.2k	4.7k
1k	1k	2.2k
5.6k	5.6k	3.3k
5.6k	3.3k	5.6k
3.3k	6.8k	3.3k
2.2k	4.7k	8.2k

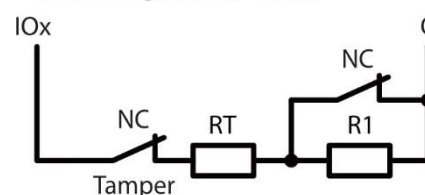
Normally open with End of line resistor (EOL)

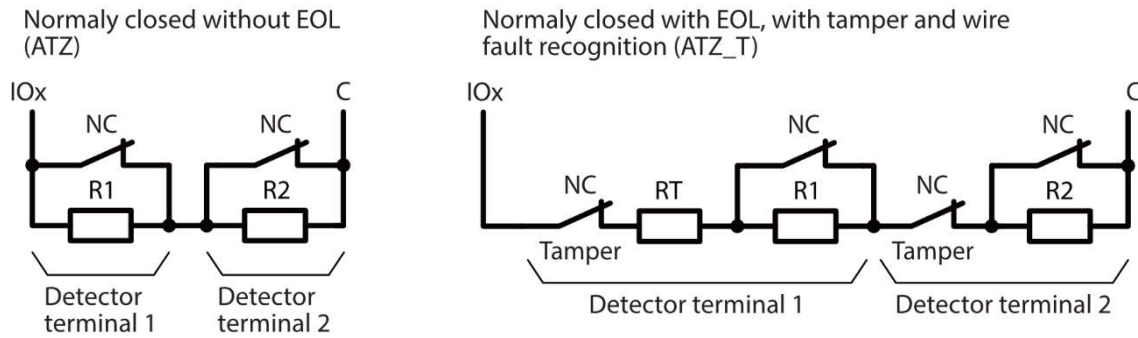


Normally closed with End of line resistor (EOL)



Normally closed with End of line resistor, with tamper and wire fault recognition (EOL_T)

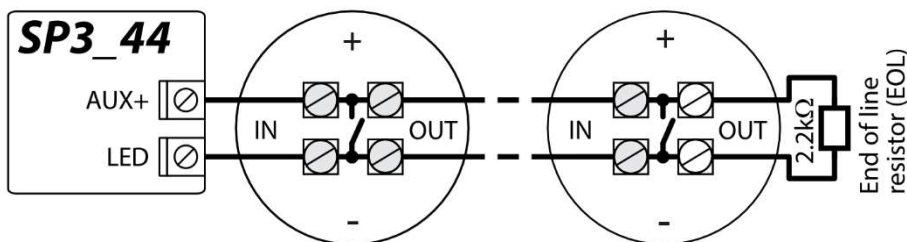




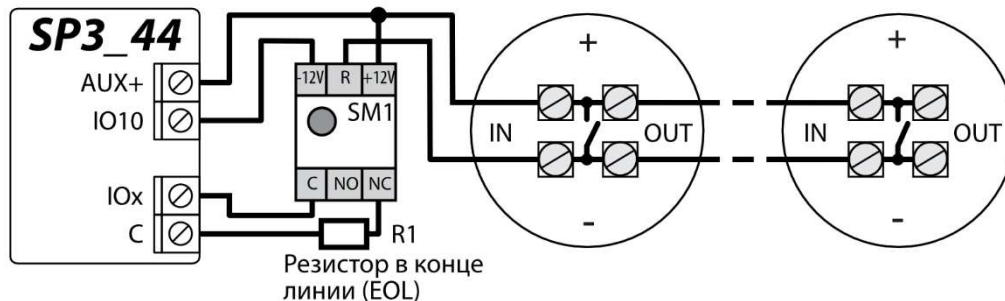
3.3 Connecting smoke detectors

Schematic for connecting two-wire smoke detectors.

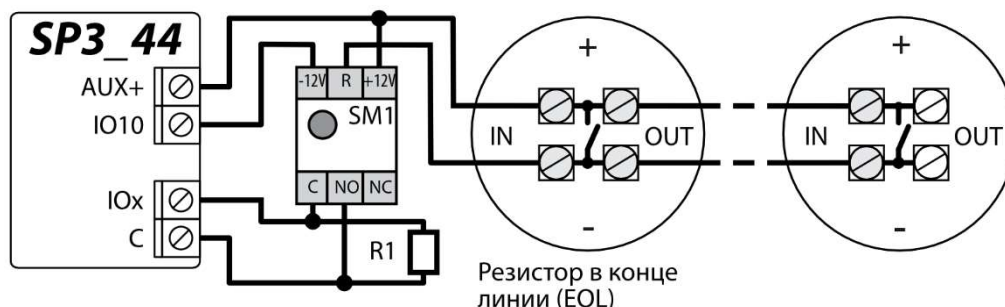
Schematic for connecting two-wire smoke detectors to PGM (LED) outputs. When using this scheme for connecting fire detectors, it is necessary to mark the "LED out as 2Wire fire" field with a tick (see chapter 5.2 "Window "System options""). The alarm current of the fire detector must be more than 10mA. Up to 8 fire detectors can be connected to the LED output.



Wiring diagrams for two-wire smoke detectors with relay module SM1. To connect a smoke detector circuit to a selected input (IOx), the input must be assigned the **Fire** zone function (see chapter 5.7 "Zones" window"). To connect a smoke detector circuit to a selected PGM output (IO10), the **Fire Sensor Reset** function must be assigned to the output (see chapter 5.8 "PGM" window").

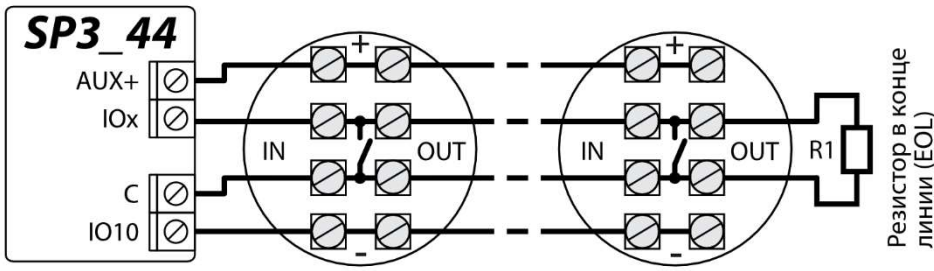


Or

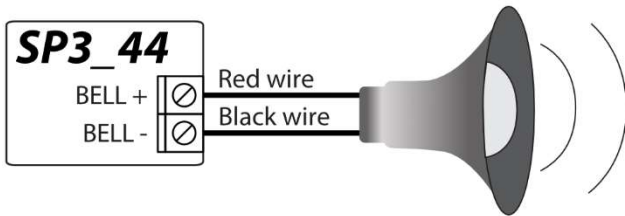


Schematic for connecting four-wire smoke detectors.

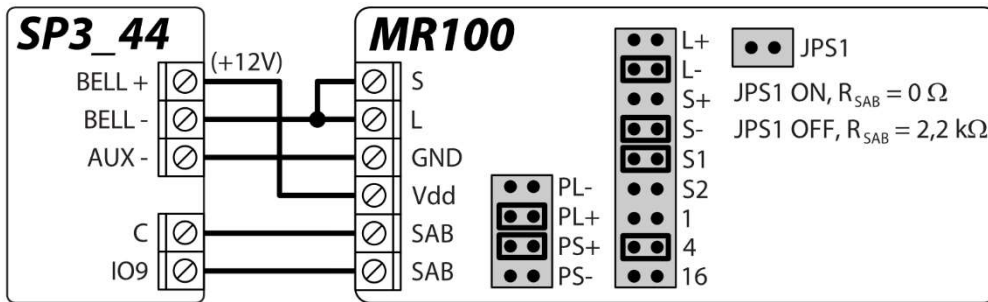
To connect a smoke detector circuit to a selected input (IOx), the input must be assigned the **Fire** zone function (see chapter 5.7 "Zones" window"). To connect a four-wire smoke detector circuit to a selected PGM output (IO10), the **Fire Sensor Reset** function must be assigned to the output (see chapter 5.8 "PGM" window").



3.4 Schematic for connecting a siren



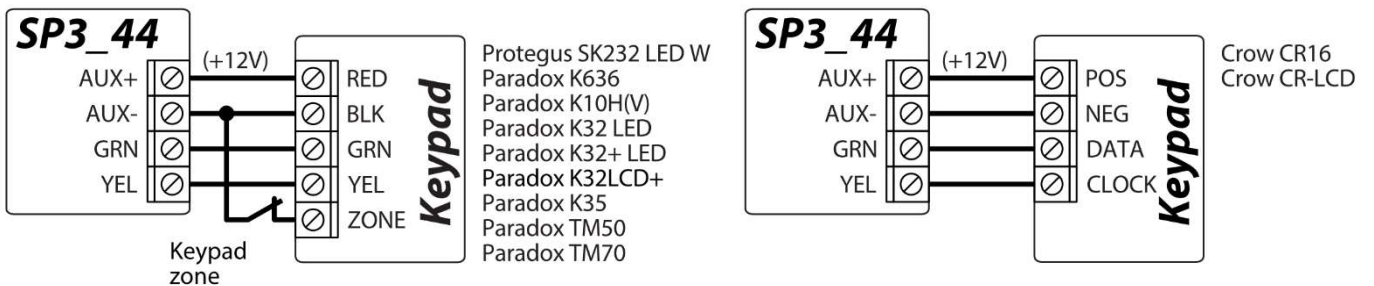
Outdoor siren

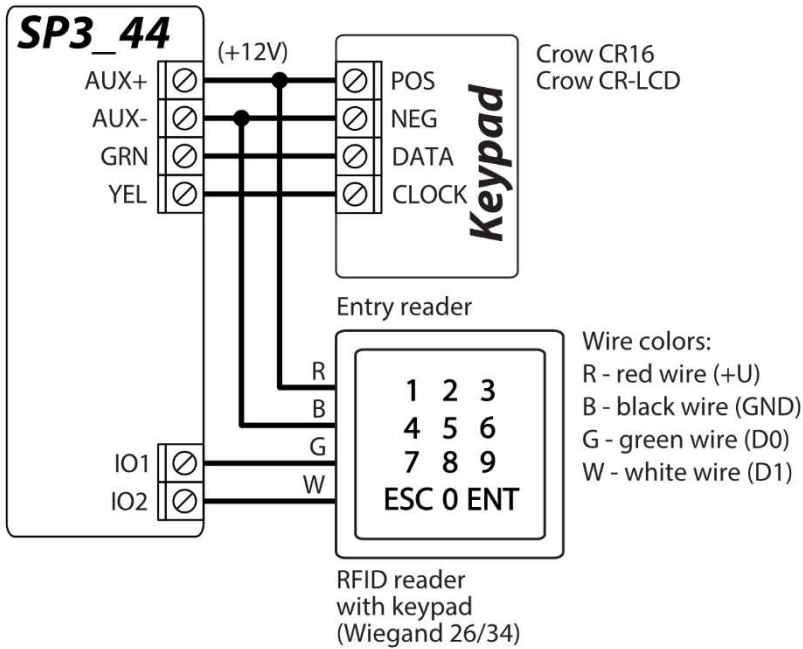
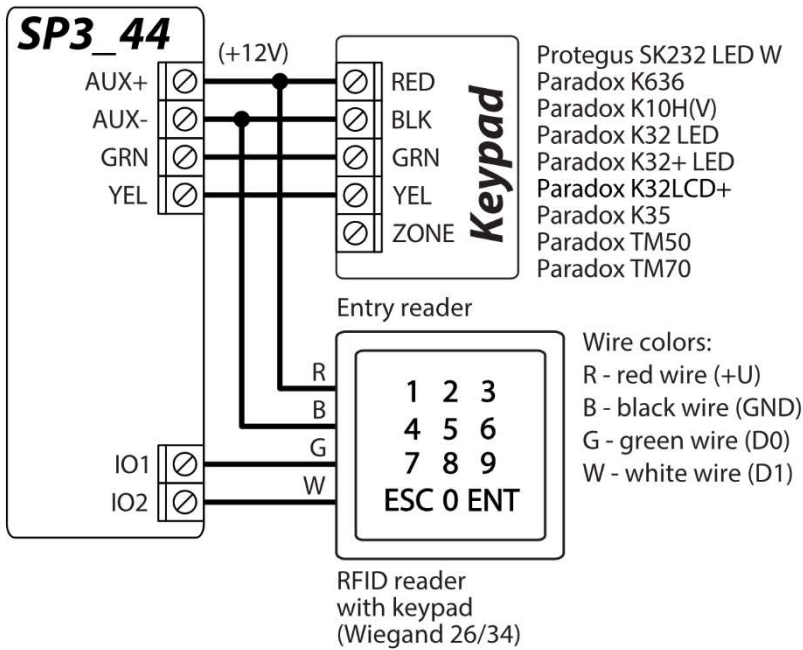


The diagram shows the connection and settings of the **MR100** outdoor siren. If the control panel will use a different method for monitoring the EOL (factory setting is 2.2 kOhm EOL) of the siren tamper (SAB terminals) circuit, it is necessary to close the JPS1 contacts and connect a resistor of the corresponding rating in series to the tamper circuit. The **24_hours** zone type is factory set for IO9 input.

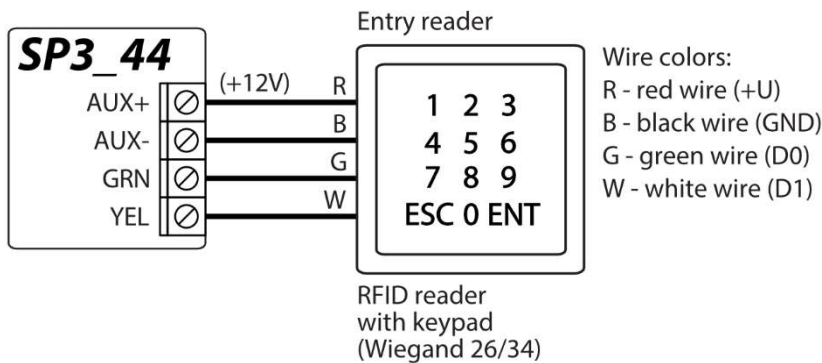
3.5 Schematics for connecting keypads and RFID readers (Wiegand 26/34)

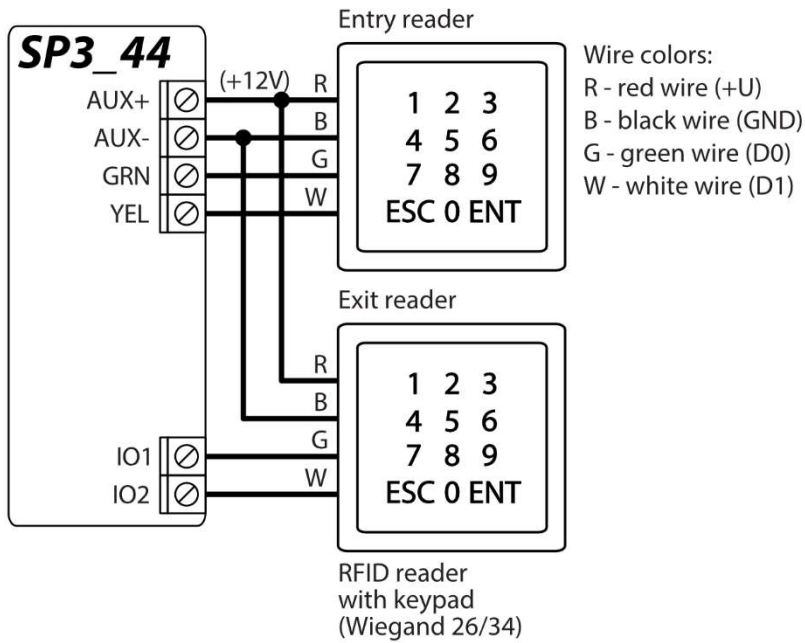
Up to 8 devices can be connected to the keypad data bus. The type of the connected keypad must be specified using TrikdisConfig software (see chapter 5.5 ““Modules” window”). The control panel will automatically recognize and link the connected devices.





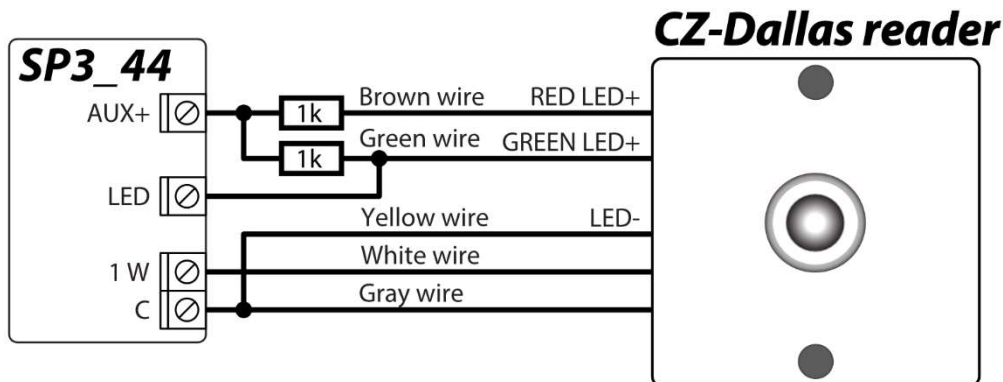
Up to 2 RFID readers can be connected to the control panel. If 2 RFID readers are connected to the control panel, the keypads cannot be connected.





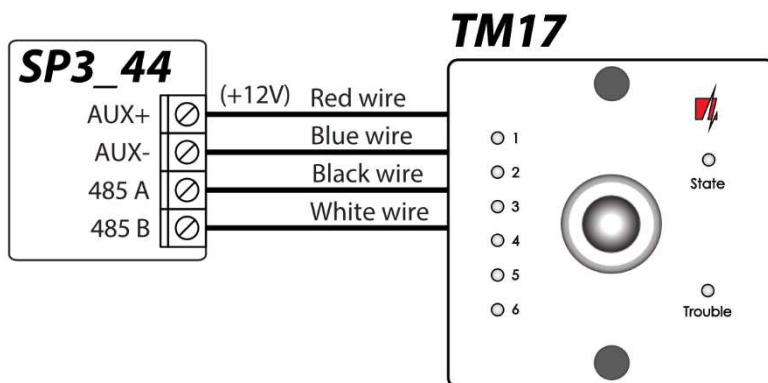
3.6 Schematics for connecting TM17, CZ-Dallas readers

The **CZ-Dallas** iButton key reader connects to the „FLEXi“ SP3_44 using the "1 Wire" data bus. The length of the wires connecting to the data bus can be up to 30 m:



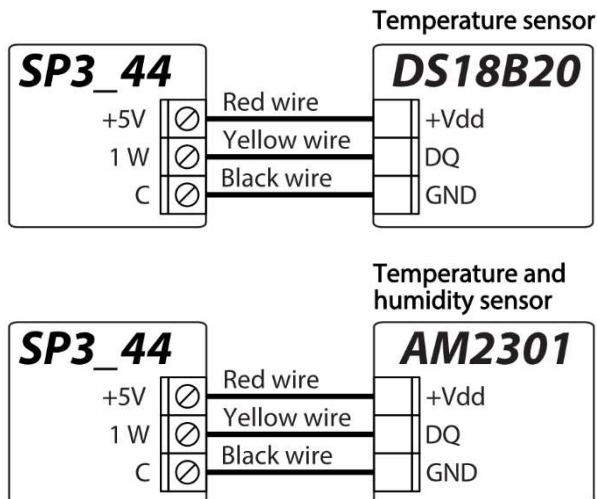
The output LED must be set to the "System state" type.
Security alarm system is arm - the iButton reader light is red.
Security alarm system is disarm - the iButton reader light is yellow.

The **TM17** reader connects to the „FLEXi“ SP3_44 using the RS485 data bus. The length of the wires connecting to the RS485 data bus can be up to 100 m.





3.7 Schematic for connecting a temperature sensor

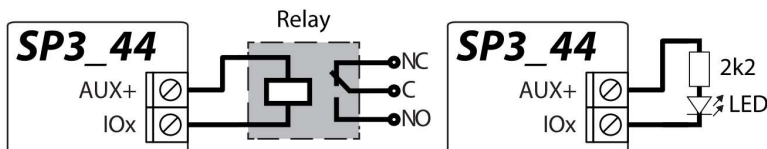


Temperature sensors should be connected according to the given schematic. Maxim®/Dallas® DS18S20, DS18B20 temperature sensors (up to 8) or AM2301 humidity and temperature sensor (up to 1) can be connected to the „FLEXi“ SP3_44 security control panel.

If a wire longer than 0,5 meters is used to connect a temperature sensor, we recommend using **twisted pair cable (UTP4x2x0,5 or STP4x2x0,5)**.

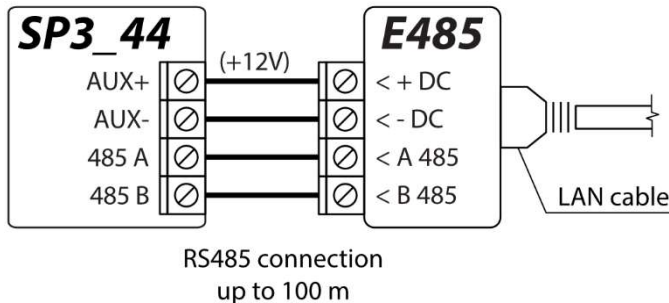
The +5V terminal on the board is for supplying devices connected to the 1-Wire data bus with 5 V DC voltage. The maximum output current is 0,2 A. The output is protected from overload. If the maximum allowed current is exceeded, the power will automatically be switched off. The control panel automatically recognizes and links connected devices.

3.8 Schematics for connecting a relay and an LED indicator



Using the relay terminals, it is possible to remotely control (turn on/off) various electrical devices. The panel's universal I/O terminal must be configured as an output (OUT) and must have the definition **Remote control** assigned.

3.9 Schematic for connecting Ethernet communicator E485

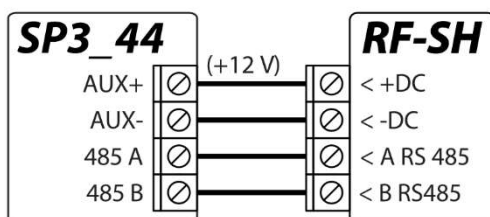


The **E485** module allows the control panel to send and receive control commands using a wired internet connection. If an **E485** module is connected to the control panel, reports to the CMS and to **Protegeus** will be sent using wired internet and mobile internet will not be used. If wired internet connectivity is lost, mobile internet will be used for sending reports to the CMS. If wired internet connectivity is restored, the control panel will automatically stop using mobile internet and will switch to communicating with CMS and **Protegeus** mobile app using the **E485**, i.e. wired internet.

See chapter 5.3 “Reporting to CMS” window” on how to choose connectivity priority (SIM, Ethernet (LAN), LAN(E485)). The „FLEXi“ SP3_44's configuration for the **E485** Ethernet module is described in chapter 5.5. “Modules” window”.

If the **E485** is connected, a SIM card is not necessary for the control panel.

3.10 Schematic for connecting RF-SH



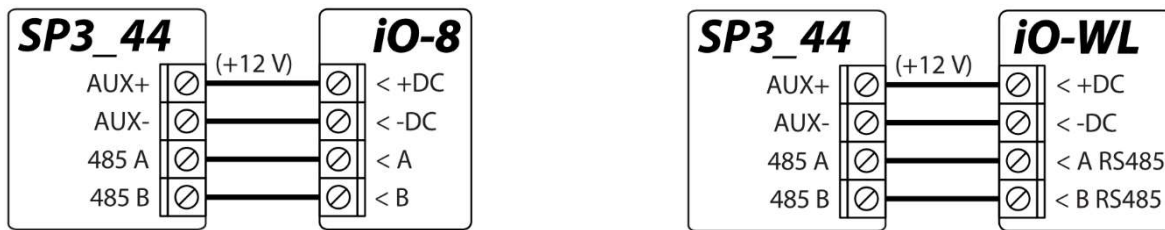
With the **RF-SH** it is possible to connect 64 wireless remote controls, 16 wireless sirens, 32 wireless sensors, 8 wireless keypads to the security system.

The „FLEXi“ SP3_44 's configuration for expander modules is described in chapter 5.5 “Modules” window”.

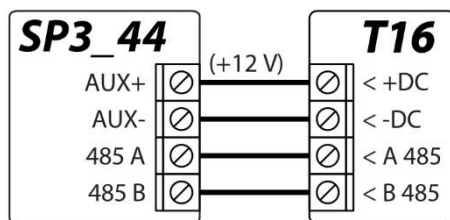


3.11 Schematics for connecting iO series expander modules

If the security control panel „FLEXi“ SP3_44 needs to have more inputs IN or outputs OUT, connect a wired or wireless TRIKDIS iO series input and output expander. The „FLEXi“ SP3_44's configuration for expander modules is described in chapter 5.5 ““Modules” window”.



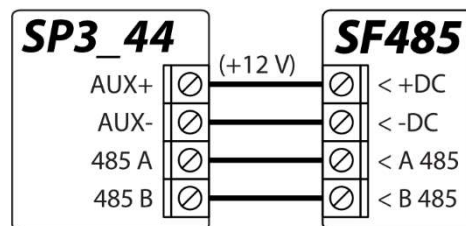
3.12 Schematics for connecting RF transmitter T16



RF transmitter **T16** used for transmitting security control panel event messages via TRIKDIS radio networks.

The transmitter can send its own event messages and event messages received from security control panels to the CMS (central monitoring station) with the possibility to forward to the end user.

3.13 Schematics for connecting SF485



SF485 works as secondary channel for security panel events transmission to CMS (Central Monitoring Station) or **Protegeus** mobile app over the SigFox network, when primary channel fails. Events are transmitted in Contact ID format.

3.14 Turning on the control panel

To turn on the control panel, first you need to turn on its power supply. The control panel's LED indicators must operate in the following way:

- The PWR diode must blink in green – this indicates that the power supply voltage is sufficient;
- The NET diode must be green solid and periodically blink in yellow no less than 3 times – the green color indicates that the SIM card is successfully registered on the mobile network, while the number of green flashes indicate the mobile signal strength.

Note: Sufficient mobile network strength is 3 (three yellow flashes of the NET indicator). If you see fewer yellow flashes of the NET diode, the strength of the mobile network is insufficient. We recommend choosing a different place for installing the control panel, changing the location of the antenna or using a more sensitive mobile antenna.

If the light indication is different, see chapter 1.4 “LED indication of operation” to find out the reason.

If all of the „FLEXi“ SP3_44 indicator lights are off, check the power supply and connections.

4 Remote control

4.1 Linking the „FLEXi“ SP3_44 to a user's Protegeus account

With **Protegeus**, users can control the alarm system remotely. They can also see the system state and receive system event reports.



1. If you do not yet have a personal **Protegeus** cloud account, open the page www.protegeus.eu/login using a web browser and create an account by clicking the *Sign up* link.
2. Click on the link you receive in your e-mail to activate your account.
3. Download and install **Protegeus** mobile app into your smartphone.

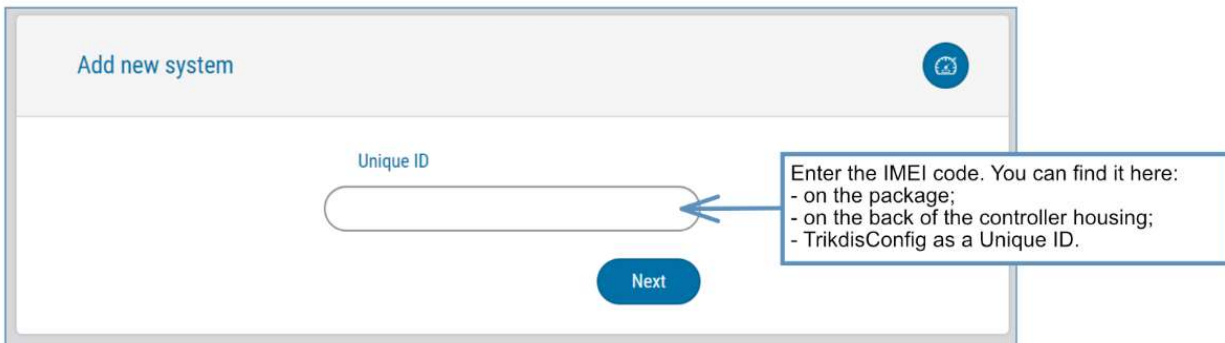


4. Launch the **Protegeus** mobile app on your smartphone and log in using your username and password.

IMPORTANT: When adding the „FLEXi“ SP3_44 to **Protegeus**:

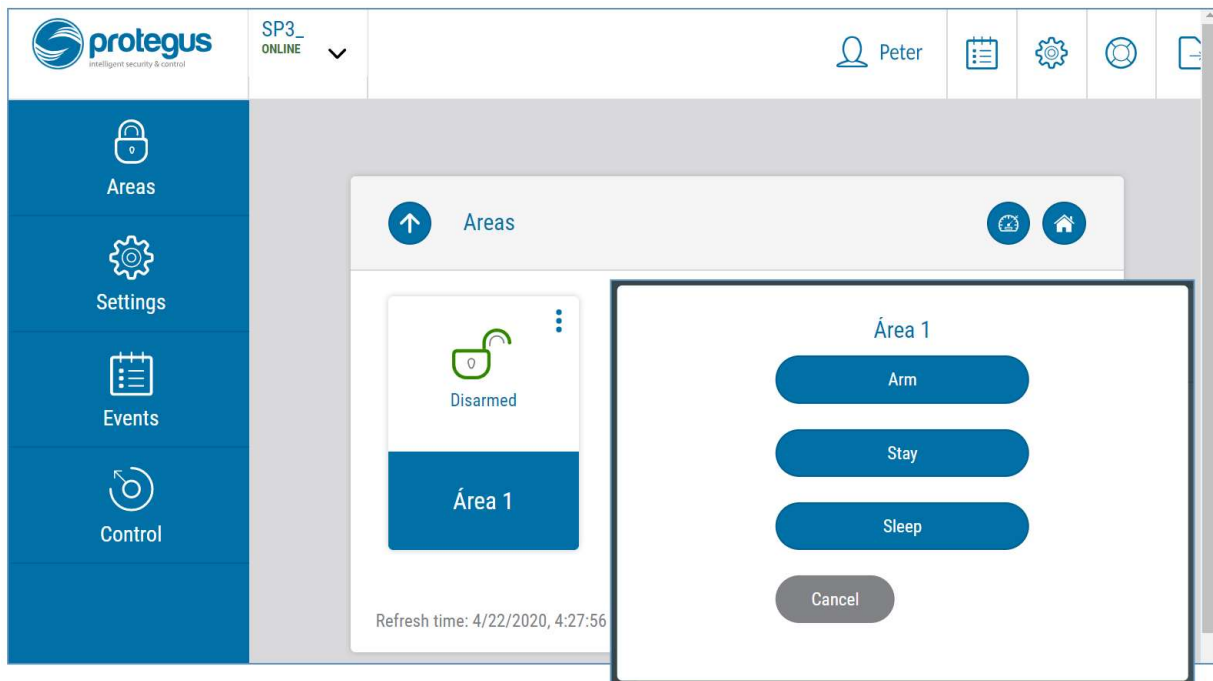
1. An activated SIM card must be inserted and the PIN code must be entered or disabled;
2. **Protegeus cloud** service must be enabled. See chapter 5.4 “Users & Reporting” (**Protegeus** tab);
3. The power must be switched on (“PWR” LED must be green solid);
4. Must be connected to network (“NET” LED must be green solid when connected to GSM network; and/or “ETH” LED must be green solid when connected to LAN network).

5. Click **Add new system** and enter the „FLEXi“ SP3_44’s “IMEI/Unique ID” number. You can find it on the packaging sticker. After entering the ID, click “Next”.



4.2 Arming/disarming the system using **Protegeus**

1. To control the system, go to the **Protegeus** window “Areas”.
2. Click on an area button in the “Areas” window. In the new window, choose an action (arm or disarm the area of the security system). If prompted, enter your personal alarm arm/disarm keypad code.



3. If the program does not respond to Your commands or the program window views are entirely different, go to **Settings** -> **System information** -> and click the button “**Re-read system config**”.

4.3 Configuration and control via SMS messages

The „FLEXi“ SP3_44 security control panel can be controlled and configured remotely using SMS messages.

Structure of SMS message: Command _{space} Password _{space} Data

The control panel’s default SMS password is **123456**. For safety reasons we recommend changing it to something only You know and not forgetting Your password!

SMS command list

Command	Data	Description
INFO		Request information about the control panel. Object name, partition state, IMEI number, GSM signal strength, firmware version and serial number will be included in the reply. E. g.: INFO 123456
RESET		Reset the device. E.g.: RESET 123456
OUTPUTx	ON	Turn on an output, “x” is the output number. E.g.: OUTPUT1 123456 ON
	OFF	Turn off an output, “x” is the output number. E.g.: OUTPUT1 123456 OFF
	PULSE=ttt	Turn on an output for a specified time - “x” is the output OUT number and “ttt” is a three-digit number that specifies pulse time in seconds. E.g.: OUTPUT1 123456 PULSE=002
PSW	New password	Change password. E.g.: PSW 123456 654123
TIME	YYYY/MM/DD,12:00:00	Set date and time. E.g.: TIME 123456 2018/01/03,12:23:00
TXTA	Object name	Specify object name. E.g.: TXTA 123456 Home
RDR	PhoneNR#SMStext	Forwards SMS messages to the specified number. The phone number must start with a “+” symbol and the international country code. E.g.: RDR 123456 +37061234567#forwarded text
ASKI		Send SMS message with statuses of inputs IN. E.g.: ASKI 123456
ASKO		Send SMS message with statuses of outputs OUT. E.g.: ASKO 123456
ASKA		Send SMS message with statuses of areas. E.g.: ASKA 123456



Command	Data	Description
ASKT		Send SMS message with values of all temperature sensors. E.g.: ASKT 123456
DISARM	SYS:x	Disarm the alarm, “x” is the partition number (1-8). E.g.: DISARM 123456 SYS:1
ARM	SYS:x	Arm the alarm, “x” is the partition number (1-8). E.g.: ARM 123456 SYS:1
STAY	SYS:x	Arm area “x” in Stay mode, “x” is the partition number (1-8). E.g.: STAY 123456 SYS:1
SLEEP	SYS:x	Arm area “x” in Sleep mode, “x” is the partition number (1-8). E.g.: SLEEP 123456 SYS:1
FRS		Resets the fire sensor’s output, if the output OUT is assigned the function “Fire sensor reset”. E.g.: FRS 123456
SETN	PhoneX=PhoneNR#Name#email	Add a phone number, username and assign it to user “x”. “x” is the phone number’s line on the list. The phone number must start with a “+” symbol and international country code. The phone number and username must be separated by a # symbol. E.g.: SETN 123456 PHONE5=+37061234567#JOHN#john@trikdis.com
	PhoneX=DEL	Delete phone number and username from the list. E.g.: SETN 123456 PHONE5=DEL
UUSD	*Usd code#	Sends a UUSD code to the operator. E.g.: UUSD 123456 *245#
CONNECT	Protegeus=ON	Connect to Protegeus cloud service. E.g.: CONNECT 123456 PROTEGUS=ON
	Protegeus=OFF	Disconnect from Protegeus cloud service. E.g.: CONNECT 123456 PROTEGUS=OFF
	Code=123456	Protegeus cloud service code. E.g.: CONNECT 123456 CODE=123456
	IP=0.0.0.0:8000	Specify the main server’s connection channel’s TCP IP and Port. E.g.: CONNECT 123456 IP=0.0.0.0:8000
	IP=0	For turning off the main channel. E.g.: CONNECT 123456 IP=0
	ENC=123456	TRK encryption key. E.g.: CONNECT 123456 ENC=123456
	APN=Internet	APN name. E.g.: CONNECT 123456 APN=INTERNET
	USER=user	APN user. E.g.: CONNECT 123456 USER=User
PSW=password	APN password. E.g.: CONNECT 123456 PSW=Password	

4.4 Control via phone call

Note: The system administrator can control the „FLEXi“ SP3_44 by SMS messages and phone calls. If you want to allow others to control the system using phone calls, enter their identification data using **TrikdisConfig** software or SMS commands.

„FLEXi“ SP3_44 phone call control commands

Controlling outputs OUT and alarm system partitions using phone calls:

1. If the user is assigned the right to control outputs OUT and the output OUT is assigned the type “Remote control” (using **TrikdisConfig**), or the security system „FLEXi“ SP3_44 is partitioned into 1 or more areas: call the phone number of the „FLEXi“ SP3_44’s SIM card. The „FLEXi“ SP3_44 will answer the call and you can dial commands using the phone’s numeric keypad (see table below).

**Mobile phone keypad command list**

Keypad buttons	Function	Description
[1][area no][#]	Arm selected alarm system area	E.g. (arm area 2): 12#
[2][area no][#]	Disarm selected alarm system area	E.g. (disarm area 2): 22#
[3][output no][#][stay no]	Control selected output OUT	Controls a specified output OUT. State: [0] – output turned off; [1] – output turned on; [2] – turned off for pulse time; [3] – turned on for pulse time; (pulse time is specified using TrikdisConfig software, in the “PGM” window) E.g. (set output 1OUT to “on” state): 31#1 E.g. (set output 2OUT to “on” state for Pulse time specified in the TrikdisConfig “PGM” table): 32#3

5 Setting parameters using TrikdisConfig software

1. Download the configuration software **TrikdisConfig** from www.trikdis.com/ (enter “TrikdisConfig” in the search field) and install it.
2. Connect the „FLEXi“ SP3_44 to a computer using a USB Mini-B cable.
Note: If you connect the „FLEXi“ SP3_44 to a computer using a USB cable while it is powered on and operating, the „FLEXi“ SP3_44 will stop performing its control panel functions and will switch to programming mode.
3. Launch the configuration software **TrikdisConfig**. The program will automatically recognize the connected device and will automatically open the „FLEXi“ SP3_44 configuration window.
4. Click **Read [F4]** to see current „FLEXi“ SP3_44 parameters. If a pop-up window appears, enter the *administrator* or *installer* code.

5.1 Description of TrikdisConfig status bar

When the „FLEXi“ SP3_44 is connected, **TrikdisConfig** will show information about the connected device in the status bar.

IMEI/Unique ID: 864450040171425						
Status: reading done	Device: SP3_44E0	SN: 000529	BL: 1.01	FW: 1.10	HW:	State USB Role: Administrator

Name	Description
IMEI/Unique ID	IMEI number of the device
Status	Operational status
Device	Device type (must show SP3_44xx)
SN	Device serial number
BL	Bootloader version
FW	Device firmware version
HW	Device hardware version
State	Type of connection with the program (USB or remote)
Role	Shows the access level (shown after entering an access code)



When the **Read [F4]** button is clicked, the program will read and display the settings currently stored inside the „FLEXi“ SP3_44. With *TrikdisConfig*, alter the desired settings according to the program window descriptions given below.

5.2 “System Options” window

“System general” tab

Settings group “General”

- If reports will be sent to CMS, enter the **Object ID** (4 symbol hexadecimal number, 0-9, A-F. **Do not use FFFE, FFFF Object ID.**) given by the CMS.
- **Object name** – will be included in reports sent via SMS messages (up to 20 symbols, letters and numbers can be used).
- **Test period** – if the box is ticked, periodic test reports will be sent every set period, unless **Start test at** is ticked and a time is set.
- **Start test at** – tick the box and specify a time when test reports should be sent.
- **Areas in test SMS** – the current protection modes of the specified areas will be included into the periodic test report.
- **Clear Events after reset** – if the box is ticked, all unsent event reports in buffer memory will be deleted if the control panel is reset.
- **Text language** – specific symbols of the selected language will be used in SMS messages.
- It is possible to **Suspend event reporting when ...** a number of **same events per ... s** happen.
- **Restore event reporting after** – set the time after which suspending of event reporting will be cancelled. The time can be anywhere from 0 to 999 minutes.
- **Call** – when an event occurs, the „FLEXi“ SP3_44 will call user(-s) as many times as is set. If the call is declined or answered, the „FLEXi“ SP3_44 will stop calling. Duration of a call is 20 seconds.
- **EOL Type** – specify the nominals of the resistors connected to the sensors (EOL – End Of Line. RT + R1 + R2. Resistor RT - tamper; resistor R1 - sensor No 1; resistor R2 - sensor No 2).
- **Communication path test** – specify the time interval after which the control panel will check the Backup communication channels by sending messages to the CMS. After sending the messages on the Backup communication channels, the control panel will return to the Primary communication channel.
- **LED out as 2Wire fire sensor** - check the box when you connect the two-wire fire detector to the LED output.

Settings group “SIM”

- Enter the **SIM card PIN**. If the PIN code is disabled for the specific SIM card, do not change the default code.



- **APN** – network service provider’s mobile internet access point name. You must enter the APN if event messages will have to be sent to **Protegeus** cloud or to the CMS using mobile internet.
- If required by the GPRS network service provider, enter the APN username and password in the fields **Login** and **Password**.

Settings group “Time settings”

You can set the time by clicking the **Set PC time** button. If **Disabled** is chosen in the **Time set** field, the computer’s time will be set for the control panel. If a modem or a server is chosen in the **Time set** field, the control panel will synchronize its time according to that modem or server.

- **Time zone (hours)** – specify your country’s time zone. For example, if the control panel will be installed in Lithuania, enter **+3**.
- **Time set** – specify a server to synchronize the „FLEXi“ SP3_44’s internal clock with. Synchronization occurs after the control panel is powered on.
- **Daylight saving time** – if you check the box, the control panel's internal clock will be automatically switched to summer or winter time.
- **AC failure delay** - in the event of a power failure in the main power supply, a power failure notification will be sent after the specified time delay. When the supply voltage is restored, a notification of the supply voltage recovery will be sent after the specified time delay.

“Partitions” tab

ID	Partition name	Entry	Exit	Bell	Squawk	Re-ARM	Force-ARM	Keyswitch	Tamper
1	Area 1	10	50	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Level	Silent
2	Area 2	10	50	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Level	Audible when
3	Area 3	15	55	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Level	Always audibl

- **Partitions enabled** – enter the number of independent parts that the alarm system will be divided into.
- **Partition name** – enter the partition name.
- **Entry** – time for entering through a *Delay* zone, walking to a keypad and disarming the alarm system. Time can be anywhere between 0 and 999 seconds.
- **Exit** – time for leaving the premises through a *Delay* zone after entering the alarm system arm code using a keypad. Time can be anywhere between 0 and 999 seconds. If the alarm system is armed remotely, e.g. via **Protegeus** mobile app, the system will not count **Exit time** and will arm immediately.
- **Bell** – duration of siren operation once the alarm is triggered. Time can be anywhere between 0 and 999 seconds.
- **Squawk** - the siren will make a short sound once when the alarm is armed and twice when it is disarmed.
- **Re-ARM** – tick this box if you want the system to automatically re-arm the alarm system after the system was disarmed remotely, but the *Delay* zone was not violated during the set entry time.
- **Force-ARM** – tick this box to allow to switch the system to protection (ARM) mode even if *Stay* zones are violated, as long as the *Entry* zone is not violated.
- **Keyswitch** – choose in what way – *Pulse* or *Level* – a Keyswitch zone must be triggered for the system to enable or disable premise protection.
- **Tamper** – choose the reaction type (Silent, Audible when armed, Always Audible) when the system detects a sensor tamper event. “Silent” – recipients will receive event reports, but the siren will not switch on; „Audible when protected” - recipients will receive event reports, but the siren will switch on only if the tamper event happens when the system is armed; „Always audible” - recipients will receive event reports and the siren will switch on even when the alarm system is disarmed.

**“Scheduler” tab**

ID	Enable	Partition	Time	Action	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	Holiday gro
1	<input checked="" type="checkbox"/>	1	19:00	Arm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disabled	Any
2	<input type="checkbox"/>	1	00:00	Disarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disabled	Any
3	<input type="checkbox"/>	1	00:00	Disarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disabled	Any
4	<input type="checkbox"/>	1	00:00	Disarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disabled	Any

In this table, you can arrange scenarios for automatically arming and disarming the security system by choosing different days of the week and including public holidays.

- **Enable** – enable the schedule for when the system will automatically arm and disarm.
- **Partition** – specify the partition affected by the specific schedule.
- **Time** – set the time when the specific action must be done.
- **Action** – set the protection mode (Disarm/Arm/Sleep/Stay) that the system will switch to automatically at the specified time.
- **Monday, ... Sunday** – tick the days of the week that the set protection mode and time will be valid on.
- **Holiday** – set how the schedule behaves during holidays (Disabled/Ignore on holidays/Additional when holidays/Only holidays). Disabled – there are no holidays. Ignore on holidays – do not carry out the schedule during holidays. Additional when holidays – perform an additional action during holidays. Only holidays – carry out the schedule during holidays.
- **Holiday group** – specify a holiday group (Any/1/2/3/4) that the schedule will consider to be holidays. If “Any” is chosen, the schedule will operate in holiday mode during any active holiday.

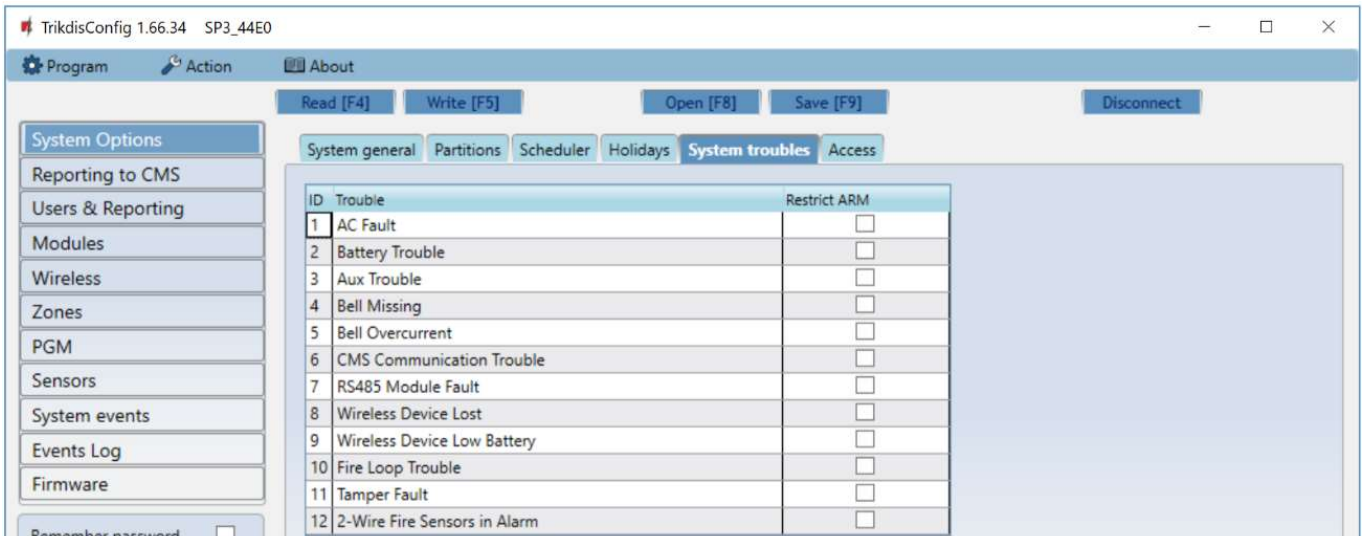
“Holidays” tab

ID	Enable	Start date	Stop date	Group 1	Group 2	Group 3	Group 4
1	<input checked="" type="checkbox"/>	01/01/2000	01/01/2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	01/01/2000	01/01/2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	01/01/2000	01/01/2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	01/01/2000	01/01/2000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- **Enable** – tick this box to enable the holiday.
- **Start date** – set the start date of the holiday.
- **Stop date** – set the end date of the holiday. If the holiday is only one day long, this date should match the **Start date**.
- **Group 1, Group 2, Group 3, Group 4** – combine holidays into groups.

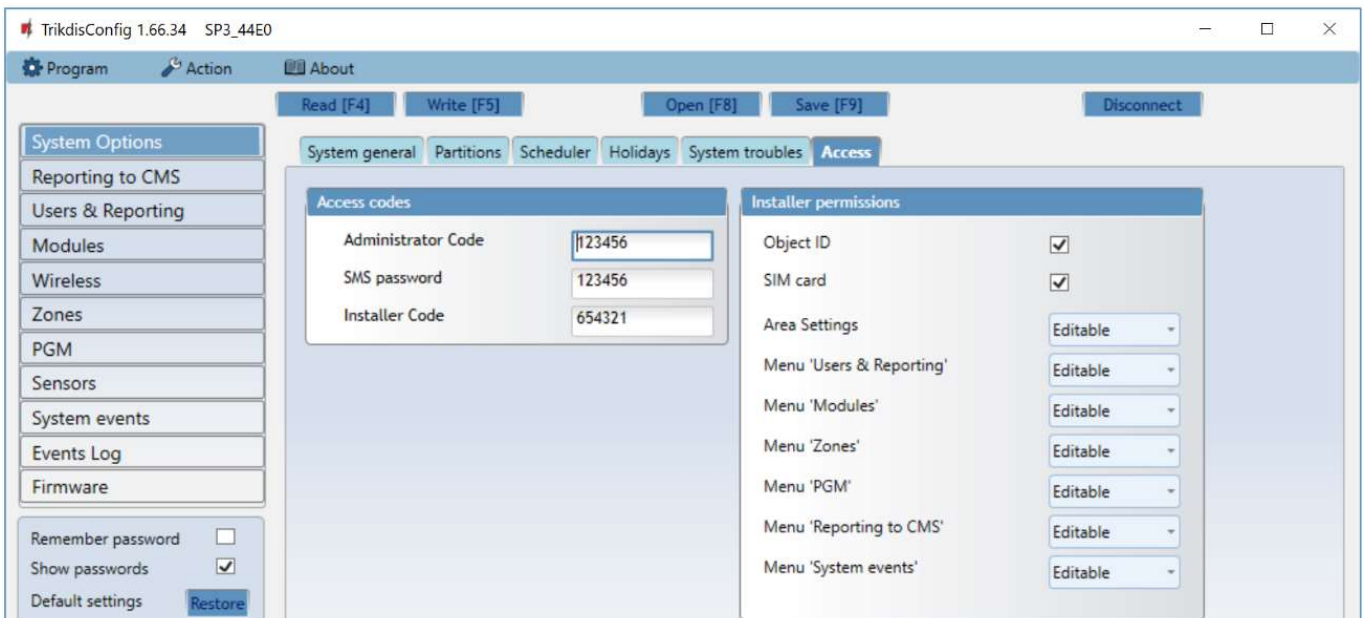


„System troubles“ tab



If at least one control panel internal malfunction field is checked, the control panel cannot be armed.

“Access” tab



Settings group “Access codes”

- **Administrator Code** – (default code - 123456) gives full access to configuration (the code must be 6 symbols long; it can consist of latin letters and/or numbers).
- **SMS password** – (default password - 123456) is used for controlling the system safely using SMS messages. For safety purposes, change it into a 6-symbol password only You know.
- **Installer Code** – (default code - 654321) gives installers access to configuring the system. For safety purposes, change it into a 6-symbol code only You know.

Note: If the default *administrator code* is set (123456), after pressing **Read [F4]** the program will immediately show the current operational parameters of the device without asking for the code.

Settings group “Installer permissions”

- Specifies the installer’s permissions.



5.3 “Reporting to CMS” window

“Reporting” tab

The screenshot shows the 'Reporting' tab in the TrikiDisConfig 1.66.34 SP3_44E0 application. The interface includes a menu bar (Program, Action, About) and a toolbar (Read [F4], Write [F5], Open [F8], Save [F9], Disconnect). A left sidebar contains navigation options: System Options, Reporting to CMS (selected), Users & Reporting, Modules, Wireless, Zones, PGM, Sensors, System events, Events Log, and Firmware. Below the sidebar are checkboxes for 'Remember password' (unchecked), 'Show passwords' (checked), and a 'Restore' button for 'Default settings'. The main area is divided into four channel configuration panels: Primary channel, Parallel channel, Backup channel, and Parallel backup channel 2. Each panel has fields for Communication type, Domain or IP, Port, Protocol, Phone number, and Encryption Key. The Primary channel is configured with TCP/IP, 0, 0, TRK, and a 6-digit encryption key. The Backup channel is set to Disabled. The Parallel channels are set to TCP/IP, 0, 0, TRK, and a 6-digit encryption key. The IMEI/Unique ID is 864450040171425.

Settings groups “Primary channel” and “Backup channel”

- **Communication type** – choose a protocol for communicating with the receiver (TCP/IP, UDP/IP, SMS).
- **Domain or IP** - enter the receiver’s domain or IP address.
- **Port** – enter the receiver’s network port number.
- **Protocol** – TRK for data transfer using TrikiDis receivers, SIA DC-09 for IP receivers capable of receiving event reports transmitted in SIA DC-09 protocols.
- **Phone number** – (only for SMS messages) enter the phone number of a TRIKDIS SMS receiver. The telephone number must start with the international country code (e.g. 370xxxxxxx).
- **Encryption key** – 6-digit encryption key that must match the encryption key of the CMS receiver.

If parameters are set for the parallel channel, reports will be sent using both channels simultaneously. Both channels cannot be configured for the same receiver.

Settings group „Backup channel 2“ and „Parallel backup channel 2“

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



“Settings” tab

Settings group “Settings”

- **Return to Primary after** – time period after which the „FLEXi“ SP3_44 will attempt to regain connection using the *primary* channel, in minutes.
- **IP Ping period** – period for sending PING signals for checking connectivity on the GPRS channel, in seconds. To enable these signals, tick the box.
- **SMS PING period** – period for sending PING signals for checking connectivity on the SMS channel, in minutes. To enable these signals, tick the box.
- **Backup reporting after** – enter how many failed attempts to send messages using the *primary* channel should take place before switching to the *backup* channel.
- **DNS1, DNS2** – DNS server addresses.
- **Object ID in SIA DC-09** – specify the object number.
- **SIA DC-09 receiver No.** – specify the receiver number.
- **SIA DC-09 line No.** – specify the line number.

Settings group “Reporting mode”

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

- **Main type** – select a connection type (SIM, Ethernet (LAN), LAN(E485)) with the CMS receiver and **Protegeus**.
- **Backup type** – select a connection type (SIM, Ethernet (LAN), LAN(E485)) with the CMS receiver and **Protegeus**.
- **Backup type 2** – select a connection type (SIM, Ethernet (LAN), LAN(E485)) with the CMS receiver and **Protegeus**.
- **Radio T16 (RS45)** – tick this box, when the **T16** transmitter will be used for transmitting information. The **T16** transmitter operates as a backup connectivity channel if at least one of the other connection methods (SIM, Ethernet (LAN), LAN(E485)) is used. If there are no other connection methods, it is the main one. The **T16** can only be used to send reports to the CMS.
- **Return to main (both channel)** – time period after which the „FLEXi“ SP3_44 will attempt to regain connection using the *primary* channel, if it was running a backup channel, min.



Settings group “LAN network parameters”

- **DHCP mode** – mode for registering on the LAN network (manual or automatic). Tick the box and the „FLEXi“ SP3_44 control panel will automatically read the network settings (subnet mask, gateway) and will automatically be assigned an IP address (automatic registration mode).
- **Static IP** – static IP address for manual registration mode.
- **Subnet mask** – subnet mask for manual registration mode.
- **Default gateway** – gateway for manual registration mode.
- **LAN Trouble indication** – check the box so that the LED on the control panel lights up when the LAN communication link fails.

Settings group “SIM parameters”

- **Disable indication of the absence of a SIM card** – when the box is ticked, the „FLEXi“ SP3_44 control panel will not display an indication that there is no SIM card inserted.
- **Use dial and SMS when working over internet module** – ticking this box will enable controlling the panel using phone calls and SMS messages. If the box is not ticked and there is a LAN network available, then SMS and phone calls are not used. If the box is not ticked and there is no LAN network, the „FLEXi“ SP3_44 can still be controlled using phone calls and SMS messages. The „FLEXi“ SP3_44 will send SMS messages to the user.
- **Disable the use of SIM card mobile data** – ticking the box will disable the usage of the SIM card’s mobile data. Data will only be sent using LAN. If a LAN network is temporarily unavailable, the „FLEXi“ SP3_44 will store data in memory. When the LAN network is restored, the „FLEXi“ SP3_44 will send data using LAN.

5.4 “Users & Reporting” window

“Users” tab

ID	Name	Tel number	Email	Code	Tag code	Areas	A	D	PGM	ACK	FWD
1A	Peter	+37060123456	peter@trikdis.lt	1234	000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2A	Algis	+	algis@trikdis.lt	2222	000000000000	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3A	Ana		ana@trikdis.lt	3333	000000000000	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4A					000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5A		+			000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6A					000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7A					000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8A					000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Ema			1145	000000000000	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Alena			5578	000000000000	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Settings group “Users & Reporting to User”

- **Name** – name of the user. These names will be used in event SMS messages.
- **Tel number** – the user’s telephone number that will be used to control the alarm system remotely and will receive SMS messages. The numbers must start with the international country code. The first 8 telephone numbers will receive reports using messages and phone calls.
- **Email** – enter the user’s email, so that the user would be invited to **Protequs** to control the system.
- **Code** – the alarm system arm and disarm code assigned to the user.
- **Tag code** – enter the identification number of an RFID card, RFID key fob, or iButton electronic key.
- **Areas** – the areas that the specific user can control.
- **A** – tick the box if you want to allow the user to ARM the alarm.
- **D** – tick the box if you want to allow the user to DISARM the alarm.
- **PGM** – if the box is ticked, the user can call the „FLEXi“ SP3_44 and turn on or off desired outputs OUT using DTMF tones.



- **ACK** – if the box is ticked, the „FLEXi“ SP3_44 will send the user SMS messages with **SMS answer text** about the completion of received commands.
- **FWD** – if the box is ticked, SMS messages received from non-users of the system (e.g. SIM card account balance, random promotional messages, etc.) will be forwarded to the user.

5.4.1 Linking RFID key fobs (cards)

You can add RFID key fobs (cards) by entering their ID numbers into the **Tag code** field in *TrikdisConfig*. Click the **Write [F5]** button to write the RFID key fob (card) list into the control panel.



The ID number specified on an RFID card.

5.4.2 Linking electronic (iButton) keys

Linking electronic keys using the **TM17** reader.

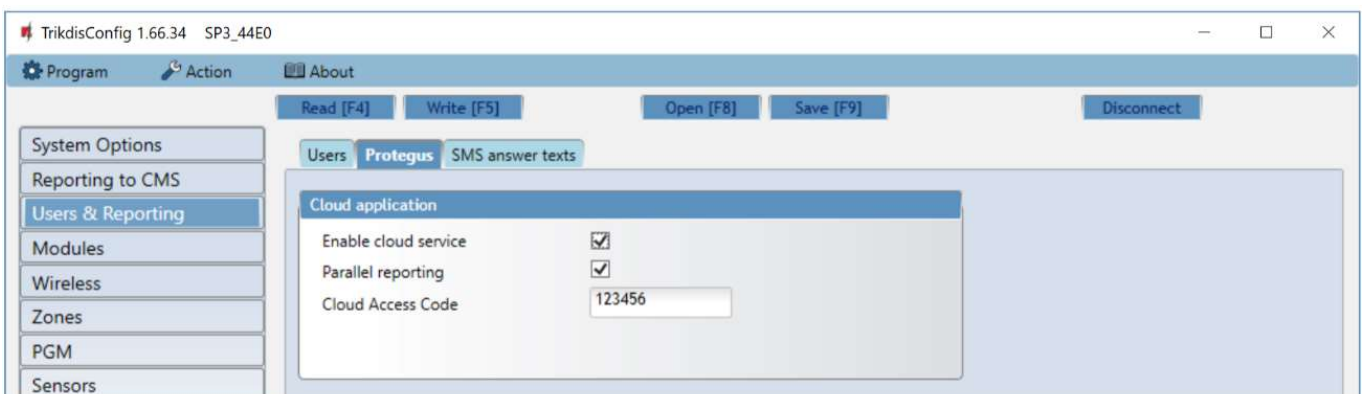
1. If the **Tag code** list is empty, the first added key should be written to the first line of the list and becomes the **Master key**.
2. To turn on contact key linking mode, hold the **Master key** against the “eye” of the key reader for at least 10 seconds. When linking mode is on, the **TM17** key reader’s LED indicator *State* will start to blink in green.
3. To link user keys, hold them against the “eye” of the key reader one by one. 3 sound signals from the reader will indicate that the key has been linked to the system.
4. When you finish linking the user electronic (*iButton*) keys, hold the **Master key** against the key reader again to disable linking mode. When the linking mode is turned off, the *State* LED indicator of the **TM17** key reader will stop blinking.
5. To delete all keys (including the master key), hold the **Master key** against the reader for at least 20 seconds.

Linking electronic keys using the **CZ-Dallas** reader.

1. If the **Tag code** list is empty, the first added key should be written to the first line of the list and becomes the **Master key**.
2. To turn on contact key linking mode, hold the **Master key** against the “eye” of the key reader for at least 10 seconds.
3. To link user keys, hold them against the „eye” of the key reader one by one.
4. When you finish linking the user electronic (*iButton*) keys, hold the **Master key** against the key reader again to disable linking mode.
5. To delete all keys (including the master key), hold the **Master key** against the reader for at least 20 seconds.

Important: The purpose of the Master key is to link other electronic keys. If you use the Master key for ARM/DISARM commands, their execution will have a delay.

“Protegeus” tab

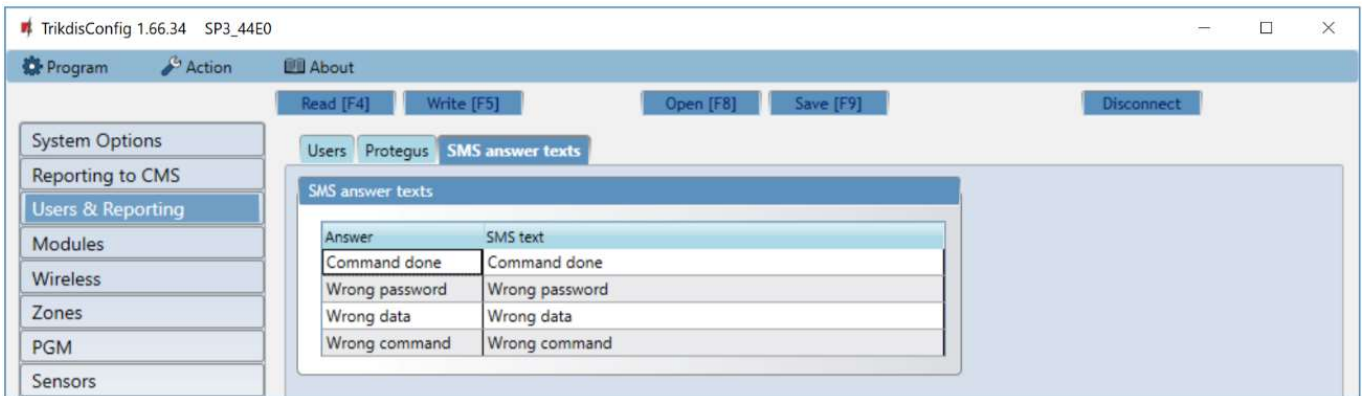




Settings group “Cloud application”

- **Enable cloud service** – enable *Protegeus cloud* service, the „FLEXi“ SP3_44 will be able to exchange data with *Protegeus* app and it will be possible to configure the control panel remotely using *TrikdisConfig*.
- **Parallel reporting** – allow parallel report sending using the *primary channel* and to *Protegeus*. Reports will only be sent to *Protegeus* and to users after they’ve been sent to the security company.
- **Cloud access code** – 6-digit code for connecting with *Protegeus*.

“SMS answer texts” tab

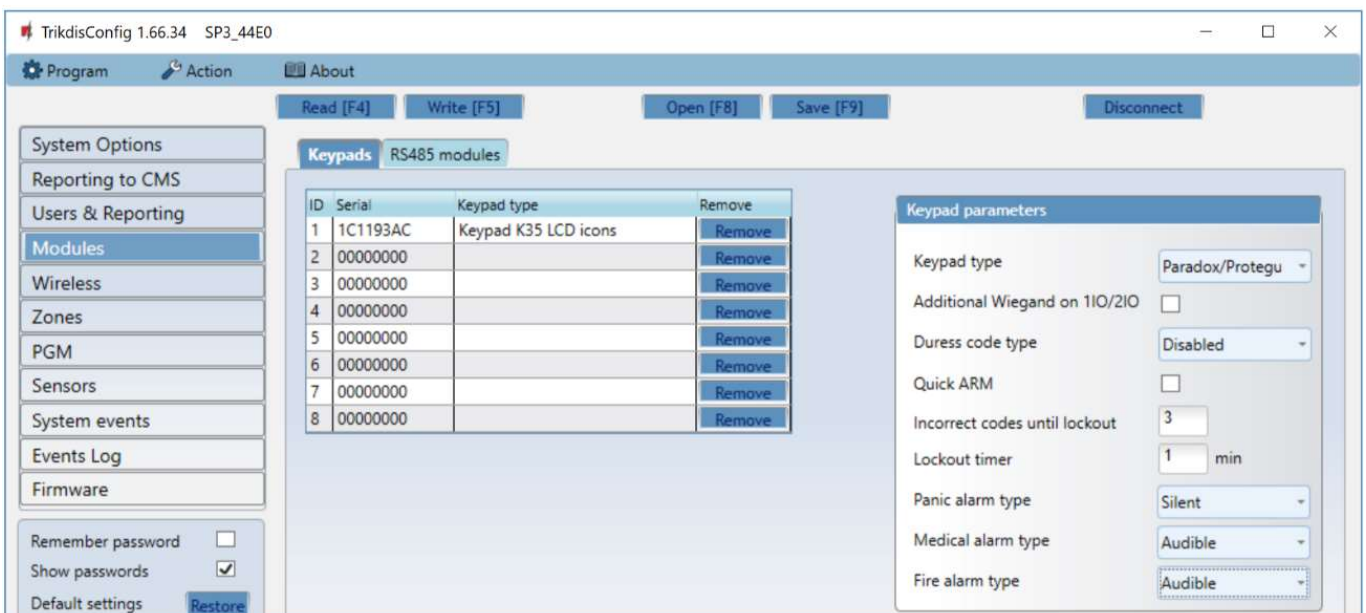


Settings group “SMS answer texts”

- The text for answers to commands sent using SMS messages can be customized in the column **SMS text**.

5.5 “Modules” window

“Keypads” tab



- **Serial** – the keypad’s serial number automatically detected by the control panel. To delete a keypad, enter zeros or click on the **Remove** button.
- **Keypad type** – keypad type, automatically detected by the control panel.
- **Remove** – pressing the button will remove the keypad from the list.

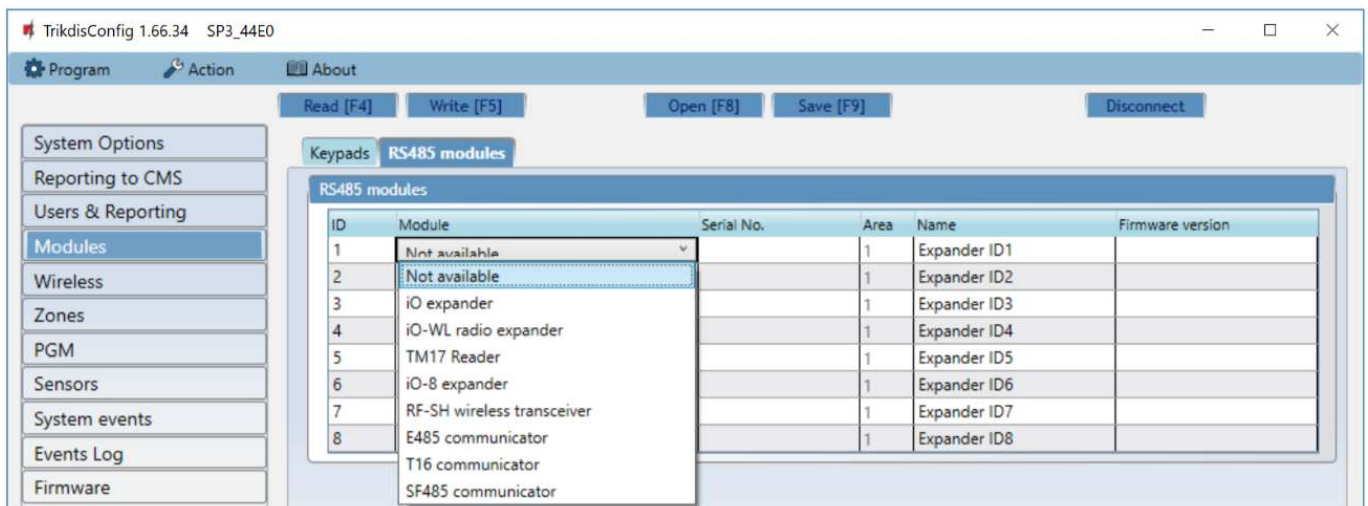
Settings group “Keypad parameters”

- **Keypad type** – specify the keypad type (Crow CR Icon/LCD; Paradox/Protegeus; Wiegand reader) connected to the control panel (GRN, YEL terminals).
- **Additional Wiegand on 110/210** – tick the box if an additional RFID card reader will be connected. An additional reader can be connected to the terminals IO1 and IO2, which cannot be used as inputs or outputs in this case.



- **Duress code type** – choose a duress code type. If you are forced to arm or disarm the alarm system and enter the duress code, the system will arm or disarm the system and will immediately send a silent warning to the CMS (central monitoring station).
- **Quick ARM** – the buttons ARM, STAY, SLEEP can be used to quickly arm the security system without entering a code.
- **Incorrect codes until lockout** – enter the number of incorrect codes allowed before blocking the keypad.
- **Lockout timer** – enter the time for how long the keypad will be blocked.
- **Panic alarm type** – specify what the alarm will sound (**Audible / Silent / Disabled**) if the **Panic alarm** function keys on the keypad are pressed. When an **Audible** alarm is set, alarm messages are sent to the **Protegeus** and the CMS (central monitoring station) and the control panel will sound an audible alarm on the keypad and turn on the siren. When the **Silent** alarm is set, alarm messages are sent to the **Protegeus** and the CMS, and the control panel will turn off the audible alarms. If set to **Disabled**, no alarm message is sent to **Protegeus** and CMS.
- **Medical alarm type** – specify what the alarm will sound (**Audible / Silent / Disabled**) if the **Medical alarm** function keys on the keypad are pressed. When the **Audible** alarm is set, alarm messages are sent to the **Protegeus** and the CMS, and the control panel will sound an audible alarm on the keypad and turn on the siren. When the **Silent** alarm is set, alarm messages are sent to the **Protegeus** and the CMS, and the control panel will turn off the audible alarms. If set to **Disabled** alarm messages are not sent to **Protegeus** and CMS.
- **Fire alarm type** - specify what the alarm will sound (**Audible / Silent / Disabled**) if the **Fire alarm** function keys on the keypad are pressed. When the **Audible** alarm is set, alarm messages are sent to the **Protegeus** and the CMS, and the control panel will sound an audible alarm on the keypad and turn on the siren. When the **Silent** alarm is set, alarm messages are sent to the **Protegeus** and the CMS, and the control panel will turn off the audible alarms. If set to **Disabled** alarm messages are not sent to **Protegeus** and CMS.

“RS485 modules” tab



Settings group “RS485 modules”

- **ID** – module’s number on the list.
- **Module** – choose the module being used (modules **iO**, **iO-WL**, **TM17**, **iO-8**, **RF-SH**, **E485**, **T16**, **SF485**) from the module list.
- **Serial No.** – mandatory 6-digit number that is given on stickers on the module’s casing and packaging.
- **Area** – assign the module to an area (the **TM17** will display the status of the area it is assigned to, and also the states of the zones assigned to the same area).
- **Name** – you can give the module a name.
- **Firmware version** – when the „FLEXi“ SP3_44 finds the connected module, the version of its firmware will be shown.



“E485 settings” tab



- **DHCP mode** – mode for registering on the LAN network (manual or automatic). Tick the box and the „FLEXi“ SP3_44 control panel will automatically read the network settings (subnet mask, gateway) and will automatically be assigned an IP address (automatic registration mode).
- **Static IP** – static IP address for manual registration mode.
- **Subnet mask** – subnet mask for manual registration mode.
- **Default gateway** – gateway for manual registration mode.

5.6 “Wireless” window



The „FLEXi“ SP3_44 is compatible with Crow wireless FW2 and Shepherd series sensors, sirens, wireless controllers using the **RF-SH** module.

5.6.1 Linking the wireless equipment transceiver RF-SH to the „FLEXi“ SP3_44 control panel

1. Connect the **RF-SH** transceiver and the „FLEXi“ SP3_44 according to the schematic in chapter 3.10 “Schematic for connecting RF-SH”.
2. Switch on the power supply.
3. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
4. Launch the program *TrikdisConfig*, click the button **Read [F4]**.
5. In the **Modules** list, pick **RF-SH wireless transceiver**.
6. In the **Serial No.** field, enter the device’s serial number.
7. Click **Write [F5]**.
8. Disconnect the USB Mini-B cable.
9. Wait 1 minute for the „FLEXi“ SP3_44 and **RF-SH** to link together.
10. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
11. Click **Read [F4]**.
12. The firmware version of the **RF-SH** will appear in the “**Modules**” window.
13. The **RF-SH** module is now linked to the „FLEXi“ SP3_44.

All wireless sensors can be linked simultaneously.



5.6.2 Linking wireless (FW2 series) sensors

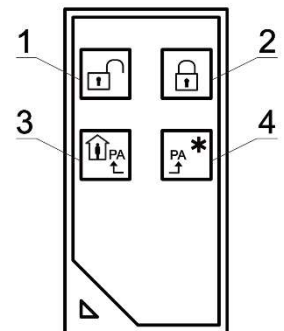
1. Make sure that the **RF-SH** transceiver is linked to the „FLEXi“ **SP3_44** (see chapter 5.6.1 above).
2. Switch on the power supply.
3. Remove the top cover from the **RF-SH** transceiver.
4. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator starts blinking green.
5. Release the button.
6. The green blinking **LEARN** indicator means that the **RF-SH** is in wireless sensor linking mode.
7. Insert a battery into the wireless sensor and wait until the sensor's LED indicators stop blinking.
8. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator stops blinking green. The **RF-SH** transceiver has exited linking mode.
9. Connect a USB Mini-B cable to the „FLEXi“ **SP3_44**.
10. Launch **TrikdisConfig**, click the **Read [F4]** button.
11. You can find a list of linked wireless sensors in the **TrikdisConfig** software window **Wireless**. The 7-digit codes in the **Serial No.** column must match the codes printed on the casings or boards of the sensors.
12. You must assign the sensors to zones and partitions of the security control panel (**Zones** window). Click **Write [F5]** after making the changes.
13. The wireless sensor is now successfully linked to the system.

Note: To delete wireless sensors from the „FLEXi“ **SP3_44**'s memory:

1. Connect a USB Mini-B cable to the „FLEXi“ **SP3_44**.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.
3. In the **TrikdisConfig** window **Wireless**, in the column **Device type**, select **Disabled** instead of the **wireless sensor** that you wish to delete and click **Write [F5]**. The wireless sensor is now removed from the „FLEXi“ **SP3_44**'s memory.

5.6.3 Linking a wireless (FW2 series) remote controller

1. Make sure that the **RF-SH** transceiver is linked to the „FLEXi“ **SP3_44** (see chapter 5.6.1 above).
2. Switch on the power supply.
3. Remove the top cover from the **RF-SH** transceiver.
4. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator starts blinking green.
5. Release the button.
6. The green blinking **LEARN** indicator means that the **RF-SH** is in wireless equipment linking mode.
7. On the wireless controller, hold down buttons 3 and 4 at the same time. The LED indicator will start blinking in yellow. After a few seconds it will stop and a green indicator will light up for a short period of time.
8. Release buttons 3 and 4. The wireless controller is linked.
9. Press and hold the **RF-SH** transceiver's **LEARN** button until the **LEARN** LED indicator stops blinking green. The **RF-SH** transceiver has exited linking mode.
10. Connect a USB Mini-B cable to the „FLEXi“ **SP3_44**.
11. Launch **TrikdisConfig**, click **Read [F4]**.
12. In the **TrikdisConfig** software window **Wireless**, the text **Wireless controller** must appear in the **Device type** field and the field **Serial No.** must have a 7-symbol code matching the code on the back of the remote controller.
13. In the **Area** field specify the security system area that the wireless controller will control (arm/disarm).
14. In the **User** field specify the user's number.
15. You can assign additional functions to the controller's buttons 3 and 4 (Arm, Disarm area; Silent alarm; Panic alarm).
16. Click **Write [F5]** after making the changes.
17. The wireless controller is now successfully linked to the system.





Note: Reverting the wireless controller to default settings:

1. Press buttons 2 and 3 at the same time and hold until the indicator starts blinking in green and red.
2. You can release the buttons when the indicator stops blinking. The controller's memory is cleared.

5.6.4 Linking a wireless (FW2 series) siren

1. Make sure that the **RF-SH** transceiver is linked to the „FLEXi“ SP3_44 (see chapter 5.6.1 above).
2. Switch on the power supply.
3. Remove the top cover from the **RF-SH** transceiver.
4. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator starts blinking green.
5. Release the button.
6. The green blinking **LEARN** indicator means that the **RF-SH** is in wireless equipment linking mode.
7. Remove the cover from the siren.
8. Connect a power supply to the siren.
9. The flash of the siren will blink rarely for 30 seconds. When the indicator stops blinking, the siren is ready for linking.
10. Press and hold the **LEARN** button on the siren's board.
11. The flash will start to blink.
12. Release the button. When the flash stops blinking, the siren will have linked successfully.
13. Press and hold the **RF-SH** transceiver's **LEARN** button until the **LEARN** LED indicator stops blinking in green. The **RF-SH** transceiver has exited linking mode.
14. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
15. Launch *TrikdisConfig*, click **Read [F4]**.
16. In the *TrikdisConfig* software window **Wireless**, the text **Siren** must appear in the **Device type** field and the field **Serial No.** must have a 7-symbol code matching the code on the board of the siren.
17. Specify an area number in the **Area** field and click **Write [F5]**.
18. The wireless internal siren is now successfully linked to the system.

Note: Reverting the wireless siren to default settings:

1. Remove the lid from the siren.
2. Disconnect the power from the siren.
3. Press the **LEARN** button on the siren's board and turn on the power.
4. Hold the **LEARN** button until the siren's flash blinks 3 times.
5. Release the **LEARN** button. The siren's flash will blink in rare intervals for another 30 seconds.
6. The flash will stop blinking. The wireless siren's default settings have been restored.

5.6.5 Linking wireless (SH series) sensors

1. Make sure that the **RF-SH** transceiver is linked to the „FLEXi“ SP3_44 (see chapter 5.6.1 above).
2. Switch on the power supply.
3. Remove the top cover from the **RF-SH** transceiver.
4. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator starts blinking green.
5. Release the button.
6. The green blinking **LEARN** indicator means that the **RF-SH** is in wireless sensor linking mode.
7. Insert a battery into the wireless sensor and wait until the sensor's LED indicator stops blinking in green and yellow. When the linking process is complete, the green LED indicator on the sensor will light up for 3 seconds and then it will go out.
8. If the linking process is unsuccessful, the LED indicator stops blinking. Remove the battery, wait for about 10 seconds and repeat the linking process.
9. Press and hold the **RF-SH** transceiver's **LEARN** button until the **LEARN** LED indicator stops blinking in green. The **RF-SH** transceiver has exited linking mode.
10. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.





11. Launch **TrikdisConfig**, click **Read [F4]**.
12. You can find a list of linked wireless sensors in the **TrikdisConfig** software window **Wireless**. The 7-digit codes in the **Serial No.** column must match the codes printed on the casings or boards of the sensors.
13. You must assign the sensors to zones and partitions of the security control panel (**Zones** window). Click **Write [F5]** after making the changes.
14. The wireless sensor is now successfully linked to the system.

Note: To delete wireless sensors from the „FLEXi“ SP3_44's memory:

1. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.
3. In the **TrikdisConfig** window **Wireless**, in the column **Device type**, select **Disabled** instead of the **wireless sensor** that you wish to delete and click **Write [F5]**. The wireless sensor is now removed from the „FLEXi“ SP3_44's memory.

5.6.6 Linking a wireless (SH series) keypad

1. Make sure that the **RF-SH** transceiver is linked to the „FLEXi“ SP3_44 (see chapter 5.6.1 above).
2. Switch on the power supply.
3. Remove the top cover from the **RF-SH** transceiver.
4. Hold down the **LEARN** button on the **RF-SH** module until the **LEARN** LED indicator starts blinking green.
5. Release the button.
6. The green blinking **LEARN** indicator means that the **RF-SH** is in wireless equipment linking mode.
7. Insert batteries into the keypad and wait for the green - red LED indicator  to stop blinking. When the linking process is complete, the green  LED indicator on the keypad will light up for 3 seconds and then it will go out.
8. Press and hold the **RF-SH** transceiver's **LEARN** button until the **LEARN** LED indicator stops blinking green. The **RF-SH** transceiver has exited linking mode.
9. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
10. Launch **TrikdisConfig**, click **Read [F4]**.
11. In the **TrikdisConfig** software window **Wireless**, the text **Keypad SH** must appear in the **Device type** field and the field **Serial No.** must have a 7-symbol code matching the code on the back of the keypad's casing.
12. Specify an area number in the **Area** field.
13. Click **Write [F5]** after making the changes.
14. The wireless keypad is now successfully linked to the system.

Note: To delete wireless sensors from the „FLEXi“ SP3_44's memory:

1. Connect a USB Mini-B cable to the „FLEXi“ SP3_44.
2. Launch **TrikdisConfig**, click the **Read [F4]** button.
3. In the **TrikdisConfig** window **Wireless**, in the column **Device type**, select **Disabled** instead of **Keypad SH** and click **Write [F5]**. The wireless keypad is now removed from the „FLEXi“ SP3_44's memory.



5.7 “Zones” window

“Zones settings” tab

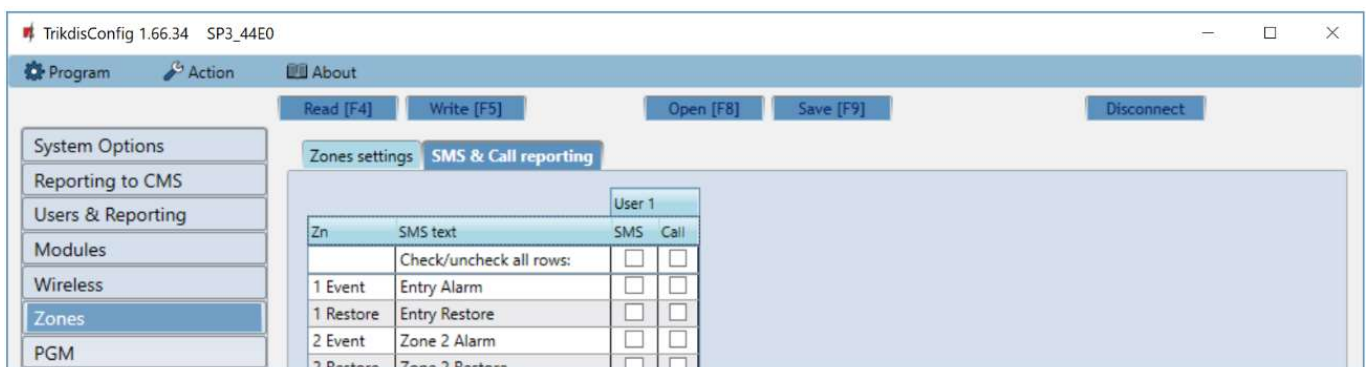
Zone No	Name	Input	Area	Definition	Type	Chime	Bypass	Force	CMS	Prot.	Delay	CID Code
1	Zone 1	SP3 1 I/O	1	Delay	NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	134
2	Zone 2	SP3 2 I/O	1	Interior	NO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	132
3	Zone 3	SP3 3 I/O	1	Instant	NO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	130
4	Zone 4	SP3 4 I/O	2	Delay	NO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	134
5	Zone 5	SP3 5 I/O	2	Instant	NO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	130
6	Zone 6	SP3 6 I/O	2	Instant Stay	NO	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	400	130

- **Zone No** – the zone’s number on the list.
- **Name** - enter the name of the zone.
- **Input** – you can select which „FLEXi“ SP3_44 or expander module input IN to assign to the zone.
- **Area** – assign the zone to an area.
- **Definition** – every zone can be assigned one of these zone functions:
 - **Delay** – for connecting a magnetic entrance door contact. You can set entry and exit times for this type of zone. After the alarm is armed, the violation of the “Delay” zone is allowed within the exit time. If the zone is still violated when the time is up, outputs OUT “Siren” and “Flash” are turned on and alarm reports are sent. When the alarm is armed, a violation of the “Delay” zone starts the entry time counter, during which the alarm must be disarmed. If the alarm is still not disarmed when the time is up, outputs OUT “Siren” and “Flash” are turned on and alarm reports are sent.
 - **Interior** – for connecting a motion sensor to the entry door. If the alarm system is armed and the “Interior” zone is triggered, output signals for “Siren” and “Flash” are turned on and a report about the triggering of the alarm system is sent. If the alarm system is armed and the “Delay” zone is triggered first, the “Interior” zone can also be triggered during the set entry time. If the alarm is not disarmed during the set entry time, output signals for “Siren” and “Flash” are turned on and a report about the triggering of the alarm system is sent.
 - **Interior Stay** – for connecting a motion sensor to the entry door. If the alarm system is armed and the “Interior Stay” zone is violated, output signals for “Siren” and “Flash” are turned on and a report about the triggering of the alarm system is sent. If the alarm system is armed and the “Delay” zone is triggered first, the “Interior Stay” zone can also be triggered during the set entry time. If the alarm is not disarmed during the set entry time, output signals for “Siren” and “Flash” are turned on and a report about the triggering of the alarm system is sent. When the alarm system is armed in STAY mode, “Interior Stay” zones are not protected.
 - **Instant** – for connecting motion sensors. If the “Instant” zone is violated when the alarm is armed, OUT outputs “Siren” and “Flash” are turned on and a message about the alarm being triggered is sent.
 - **Instant Stay** – for connecting motion sensors. If an “Instant Stay” zone is violated when the alarm is armed, OUT outputs “Siren” and “Flash” are turned on and a message about the alarm being triggered is sent. When the alarm system is armed in STAY mode, “Instant Stay” zones are not protected.
 - **Fire** – for connecting fire sensors. If this zone is violated, OUT outputs “Siren” and “Flash” are turned on immediately and an event report is sent.
 - **Keyswitch** – for connecting a keypad or other switch. If the switch triggers this zone the security alarm will be armed or disarmed. The alarm will be armed after the set **Exit time** passes.
 - **24_hour** – for connecting glass break and tamper detectors. If this zone is violated, OUT outputs “Siren” and “Flash” are turned on immediately and an event report is sent.
 - **Silent** – if the alarm is armed and this zone is violated, an event report will immediately be sent, but “Siren” and “Flash” output signals will not be generated.
 - **Silent 24h** – for connecting panic buttons. If this zone is violated, an event report will immediately be sent regardless of the state of the security system, but “Siren” and “Flash” output signals will not be formed.



- **Type** – choose the type of circuit connected to the zone input IN from a list: NC – normally closed; NO – normally open; EOL – with an end of line resistor; EOL_T – with an end of line resistor and tamper monitoring; ATZ – two zone normally closed circuit with end of line resistors, without tamper monitoring function (to use this type, choose the second ATZ zone in the input list); ATZ_T – two zone normally closed circuit with end of line resistors, with tamper monitoring function (to use this type, choose the second ATZ zone in the input list).
- **Chime** - checking the box will enable the zone chime feature. When the zone is activated, the keypad will beep.
- **Bypass** – tick this box if you want to allow this zone to be bypassed and ignored when it is triggered.
- **Force** – tick this box if you want to allow arming the security system with the zone open. When the alarm is armed, open zones set to “Force” mode will be temporarily disconnected. After zone restore, they will be turned on and monitored again. A violation of this zone will trigger an alarm.
- **CMS** – if the box is ticked, zone event reports will be sent to the central monitoring station (CMS).
- **Prot.** – if the box is ticked, zone event reports will be sent to **Protegeus** cloud.
- **Delay** – input IN zone reaction time, in milliseconds.
- **CID code** – event contact ID codes. This code will be filled in automatically after selecting a definition for the zone.

“SMS & Call reporting” tab

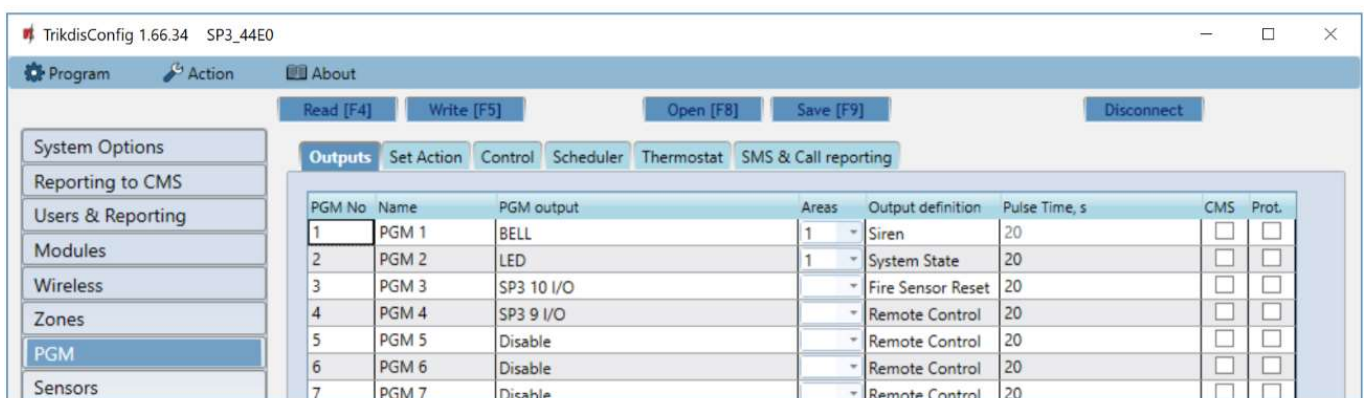


This tab will only be shown if there is at least one user in the „Users & Reporting” window.

- **Zn** – zone number with the event identification word. Can be “Event” or “Restore”.
- **SMS text** – description of the zone event that will be included in event reports sent to the user using SMS messages.
- **SMS/Call** – choose how users will be informed about events in every individual zone – using SMS messages or/and phone calls.

5.8 “PGM” window

“Outputs” tab



- **PGM No** – specifies the PGM output’s number on the list.
- **Name** - enter the name of the output.
- **PGM output** – assign the outputs OUT of the „FLEXi“ SP3_44 or an external device to the PGM.
- **Area** – assign the output OUT to an area.
- **Output definition** – choose the operational mode of the output OUT.



- **Siren** – for connecting a siren.
- **Remote control** – for controlling external electric devices.
- **Fire Sensor Reset** – for resetting a fire sensor after triggering.
- **System State** – for connecting a security system state indicator. E.g., an LED can display when the alarm is armed / disarmed.
- **Flash** – if the alarm is armed a line signal is generated, if it is triggered – a pulse type signal. The signal is cut off when the alarm is disarmed.
- **Thermostat** – this setting will make the PGM output operate in thermostat mode. A temperature sensor must be connected to the „FLEXi“ SP3_44. The PGM output must have thermostat mode set and the temperature that it must maintain has to be specified.
- **Buzzer** – for repeating the sound signals from a keypad.
- **Pulse time, s** – you can set the desired OUT turn on duration from 0 to 9999 seconds.
- **CMS** – if this box is ticked, PGM output turn on/off reports will be sent to the central monitoring station (CMS).
- **Prot.** – if the box is ticked, PGM output turn on/off reports will be sent to **Protegeus** cloud.

“Set Action” tab

ID	Ena PGM No.	Action	Pulse Time, s	Factor	Factor No.	Start when	Set value
1	<input checked="" type="checkbox"/> PGM4 - SP3 9 I/O	PGM ON	0	Jamming	N/A	Jamming start	0
2	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0
3	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0
4	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0
5	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0
6	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0
7	<input type="checkbox"/> N/A	PGM OFF	0	Jamming	N/A	Jamming start	0

- **ID** – output’s number on the list.
- **Enable** – enables the PGM operation algorithm.
- **PGM No.** – select the desired PGM output OUT that will be controlled after the event described in columns **Factor**, **Factor No.**, **Start when**, **Set value** occurs.
- **Action:**
 - **PGM OFF** – state of output OUT – “Off”.
 - **PGM ON** – state of output OUT – “On”.
 - **Pulse OFF** – initial state of output OUT – “On”. After the command the OUT state will become “Off” for the duration of the **Pulse time**, and later it will automatically return to the initial “On” state.
 - **Pulse ON** – initial state of output OUT – “Off”. After the command the OUT state will become “On” for the duration of the **Pulse time**, and later it will automatically return to the initial “Off” state.
- **Pulse time, s** – you can set the pulse time anywhere from 0 to 9999 seconds.
- **Factor/Factor No.** – choose what event (*Zone, Sensor, Jamming, Sensor lost, iButton, Arm, Disarm, SMS received, Zone(follow)*) will turn on the output OUT.
 - Schedules can be assign to an output OUT. The schedule shows when the output should be turned on. Up to 10 different schedules can be prepared in the **Scheduler** tab.
- **Start when** – you can set an additional condition when to turn on the output OUT depending on the **Factor** event.
- **Set value** – depending on the condition chosen in the **Factor** column (SMS received, Temperature) a value (text of received SMS message, voltage or temperature) can be specified. If this value is identified, the action (chosen in the **Action** column) will be performed. The text of the SMS message can be separated by using % symbols. % symbols are used for separating the keyword that will change the state of a PGM output from the entire received SMS message.
 - **%....%** - part of the received SMS message text must match with the text entered between % symbols (e.g. **%hoUSe%**). The text in an SMS message must include the text “**hoUSe**”. Example of an SMS message: **VacationhoUSe25864**).
 - **....%** - the beginning of the received SMS message must match the text entered until the % symbol (e.g. **hoUSe%**). The SMS message must start with the text “**hoUSe**”. Example of an SMS message: **hoUSeddss**).



%.... – the ending of the received SMS message must match with the text entered after the % symbol. (e.g. %hoUSE. The SMS message must end with the text “hoUSE”. Example of an SMS message: 1144hoUSE).

The SMS message text is case-sensitive.

“Control” tab

Reader	EN	Code	PGM	PGM Mode	Area action
iButton	<input type="checkbox"/>	<input type="checkbox"/>	None	Pulse	Disarm
Wiegand 1 (G/Y)	<input type="checkbox"/>	<input type="checkbox"/>	None	Pulse	Disarm
Wiegand 2 (IO)	<input type="checkbox"/>	<input type="checkbox"/>	None	Pulse	Disarm

Utility key	Area statuses	
Utility key 1	Area statuses	-
Utility key 2	None	Pulse
Utility key 3	None	Pulse
Utility key 4	None	Pulse
Utility key 5	None	Pulse
Utility key 6	None	Pulse

Settings group “Entry/Exit control”

- **Reader** – the readers that can be connected to the security panel are indicated.
- **En** – check the box to enable the reader to control the PGM output.
- **PGM** – specify the PGM output that the reader will control. PGM output must be set to **Remote control** mode.
- **PGM mode** – set the PGM output triggering mode (**Pulse** or **Level**).
- **Action** - indicate the change in the security mode of the security panel when an iButton key or RFID card is attached to the reader.

Settings group “Paradox keypad control”

- **Utility key** – pressing and holding the utility keys for 3 seconds will trigger the PGM output. The PGM output will activate for the duration of the pulse (if the operating mode is **Pulse**) or the level of the PGM output signal will change (if the operating mode is **Level**).

“Scheduler” tab

ID	Enable	Time	Start time							Time	Stop time						
			Mon	Tue	Wed	Thu	Fri	Sat	Sun		Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- **ID** – schedule’s number on the list.
- **Enable** – enable the schedule.
- **Start time** – set the time when OUT will be turned on (schedule start time).
- **Stop time** – set the time when OUT will be turned off (schedule end time).
 - **Mon – Sun** – you can mark the days of the week when OUT will have to be turned on/off.



“Thermostat” tab

ID	PGM No.	Action	Active	Sensor No	Temperature
1	PGM4 - SP3 9 I/O	Heat	<input checked="" type="checkbox"/>	N/A	22
			<input type="checkbox"/>	N/A	0
			<input type="checkbox"/>	N/A	0
			<input type="checkbox"/>	N/A	0
2	N/A	Cool	<input type="checkbox"/>	N/A	0
			<input type="checkbox"/>	N/A	0
			<input type="checkbox"/>	N/A	0
			<input type="checkbox"/>	N/A	0

- **ID** – thermostat’s number on the list.
- **PGM No.** – specify the number of the PGM output that the thermostat will control.
- **Action** – set the thermostat’s operation mode: heating or cooling.
- **Active** – if the box is ticked, the thermostat will work with the selected temperature sensor according to the set temperature.
- **Sensor No** – assign a temperature sensor to the thermostat.
- **Temperature** – set the temperature that the thermostat will maintain.

“SMS & Call reporting” tab

PGM	SMS text	SMS	Call
	Check/uncheck all rows:	<input type="checkbox"/>	<input type="checkbox"/>
1 Event	Siren ON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1 Restore	Siren OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Event	System state ON	<input type="checkbox"/>	<input type="checkbox"/>
2 Restore	System state OFF	<input type="checkbox"/>	<input type="checkbox"/>
3 Event	Fire reset	<input type="checkbox"/>	<input type="checkbox"/>

This tab will only be shown if there is at least one user in the “Users & Reporting” window. These settings can only be made for the first 8 users.

- **PGM** – shows the output OUT number and turn on/off event type (“Event” – output OUT turn on event and “Restore” – output OUT turn off event).
- **SMS text** – the name of the output OUT turn on/off event, it will be used in the event’s SMS message.
- **User / SMS and Call** – choose which users to inform using SMS messages and/or phone calls when the output OUT is turned on/off.



5.9 “Sensors” window

ID	Module type	Serial No.	Sensor name	Max	Min	High	Low
1	Disable	0000000000000000	Sensor 1	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Disable	0000000000000000	Sensor 2	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Disable	0000000000000000	Sensor 3	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Disable	0000000000000000	Sensor 4	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Disable	0000000000000000	Sensor 5	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Disable	0000000000000000	Sensor 6	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Disable	0000000000000000	Sensor 7	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Disable	0000000000000000	Sensor 8	30	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- **ID** – temperature sensor’s number on the list.
- **Module type** – choose a temperature sensor to assign to the ID.
- **Serial No.** - serial number of the temperature sensor read by the control panel.
- **Sensor name** – give the temperature sensor a name.
- **Max** – when the temperature is higher than this setting, an event report will be generated. For an event message to be generated, the **High** box must be ticked.
- **Min** – when the temperature is lower than this setting, an event report will be generated. For an event message to be generated, the **Low** box must be ticked.
- **Sensor type** – choose the type of the connected temperature sensor (Dallas 1Wire – up to 8 temperature sensors of this type can be connected. If Dallas sensors are chosen, they will be linked automatically; Humidity & Temperature – one AM2301 temperature and humidity sensor can be connected. If the Humidity & Temperature sensor will be used, it must be manually assigned in the **Module type** column).

5.10 “System events” window

“Events” tab

ID	Event name	Enable	CMS	Prot.	CID Code	SMS event text	SMS restore text
1	Low Battery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	302	Battery low	Battery restore
2	Periodic test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	602	Periodic test	
3	Arm/Disarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	401	System disarmed	System armed
4	RS485 fault	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	333	RS485 device fault	RS485 device restore
5	High temperature	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	158	High value	Value restored
6	Low temperature	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	159	Low value	Value restored
7	Temp. sensor lost	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	380	Sensor fault	Sensor restore
8	GSM jamming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	344	GSM jamming	NO GSM jamming
9	AC fault	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	301	AC fault	AC restore
10	Partial ARM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	456	Partial ARM	
11	Zone Bypass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	570	Zone Bypassed	Bypass canceled

- **ID** – event’s number on the list.
- **Event name** – event name.
- **Enable** – enable event recognition and report generation.
- **CMS / Prot.** – reports on selected events will be sent to CMS and/or to **Protegeus** cloud.
- **CID Code** – Contact ID code of the event.



- **SMS event text** – event SMS message text.
- **SMS restore text** – restore event SMS message text.

“SMS & Call reporting” tab

ID	Event SMS text	SMS	Call
Check/uncheck all rows:			
1 Event	Battery low	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1 Restore	Battery restore	<input type="checkbox"/>	<input type="checkbox"/>
2 Event	Periodic test	<input type="checkbox"/>	<input type="checkbox"/>
3 Event	System disarmed	<input type="checkbox"/>	<input type="checkbox"/>
3 Restore	System armed	<input type="checkbox"/>	<input type="checkbox"/>
4 Event	RS485 device fault	<input type="checkbox"/>	<input type="checkbox"/>
4 Restore	RS485 device restore	<input type="checkbox"/>	<input type="checkbox"/>
5 Event	High value	<input type="checkbox"/>	<input type="checkbox"/>
5 Restore	Value restored	<input type="checkbox"/>	<input type="checkbox"/>

This tab will only be shown if there is at least one user in the “Users & Reporting” window.

- **ID** – number and identification word (*Event, Restore*) of the event.
- **Event SMS text** – text that will be used in event SMS messages.
- **User** – choose the ways users will be informed about each event – SMS message and/or phone call.

5.11 “Events log” window

Event No.	Time	CID	Event definition
1072	2021-04-06 13:48:53	358:00:901	SIM trouble
1071	2021-04-06 13:47:06	302:01:000	Low Battery
1070	2021-04-06 13:47:02	358:00:903	Ethernet trouble
1069	2021-04-06 13:43:53	305:00:016	System start
1068	2021-04-06 13:43:53	780:02:000	Output ON. OUT2
1067	2021-04-06 13:30:00	602:01:000	Periodic test
1066	2021-04-06 10:21:29	358:00:901	SIM trouble
1065	2021-04-06 10:19:42	302:01:000	Low Battery
1064	2021-04-06 10:19:38	358:00:903	Ethernet trouble
1063	2021-04-06 10:16:28	305:00:016	System start
1062	2021-04-06 10:16:28	780:02:000	Output ON. OUT2

- **Read Log** button – command for reading the events log from the device’s memory.
- **Clear Log** – command for clearing the events log entries from the device’s memory.
- In the table, you can find the **Event No.**, **Time**, **CID** code, **Event definition**. The events log can show up to 1000 events stored in the „FLEXi“ SP3_44’s memory.



5.12 Restore default settings

To restore the control panel's default settings, click the *TrikdisConfig* button **Restore**.



5.13 Updating firmware

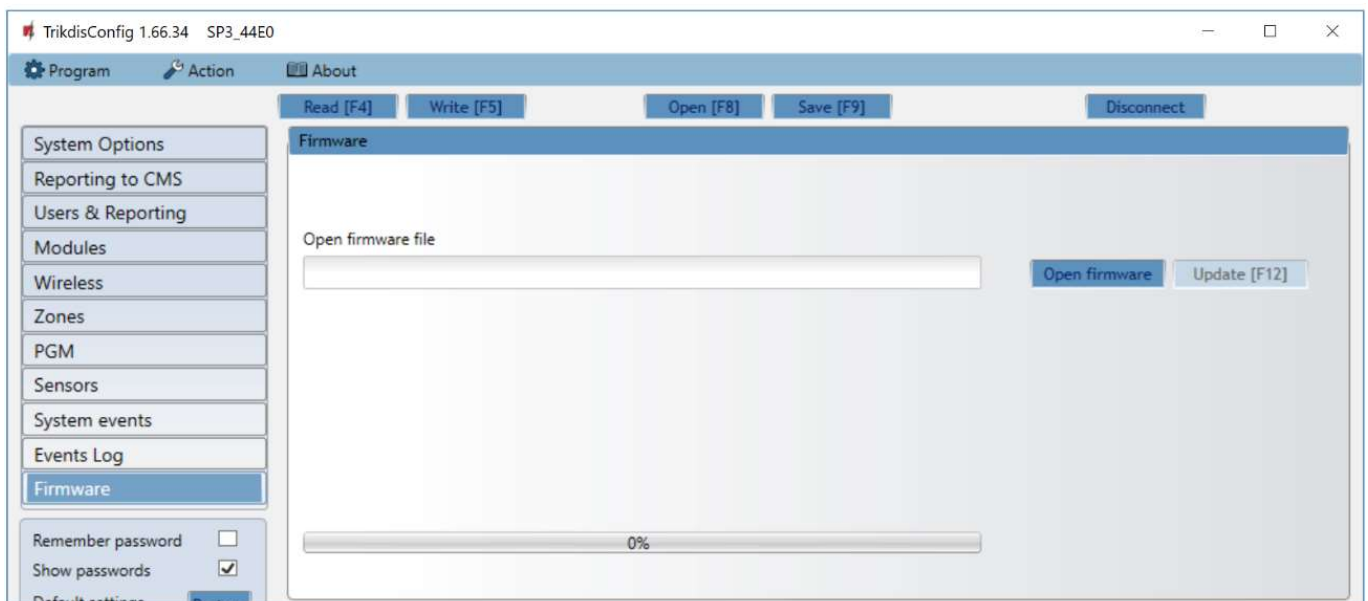
Note: After connecting the „FLEXi“ SP3_44 to *TrikdisConfig*, the program will automatically offer to update the firmware if any updates are available. An internet connection is needed for this feature.

If antivirus software is installed on your computer, it may block the automatic firmware update function. In this case, you will have to reconfigure your antivirus software.

The „FLEXi“ SP3_44's firmware can also be updated or changed manually. All prior settings of the „FLEXi“ SP3_44 remain unchanged after an update. If the firmware is installed manually, it can be changed to a newer or an older version.

Perform these steps:

1. Launch *TrikdisConfig*.
2. Connect the „FLEXi“ SP3_44 to a computer using a USB Mini-B cable or connect to the „FLEXi“ SP3_44 remotely. If a newer version of firmware is available, the program will automatically offer to install it.
3. Open the *TrikdisConfig* window **Firmware**.



4. Click the **Open firmware** button and choose the required firmware file. If you do not have the file, the newest firmware file can be downloaded from the „FLEXi“ SP3_44 downloads section of www.trikdis.com by registered users.
5. Click the **Update [F12]** button.
6. Wait for the updates to finish.

Once configuration is complete, click the **Write [F5]** button and disconnect the USB cable.