



ESIM364 GSM ALARM AND MANAGEMENT SYSTEM

INSTALLATION MANUAL

COMPLIES WITH EN 50131-1 GRADE 3, CLASS II REQUIREMENTS

Installation Manual v1.8 Valid for ESIM364 v02.12.00 and up

Safety instructions

Please read and follow these safety quidelines in order to maintain safety of operators and people around:

- GSM alarm & management system ESIM364 (also referenced as "alarm system", "system" or "device") has radio transceiver operating in GSM 850/900/1800/1900 bands.
- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.
- System label is on the bottom side of the device.



GSM alarm system ESIM364 is a device mounted in limited access areas. Any system repairs must be done only by qualified, safety aware personnel.



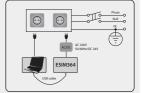
The system must be powered by main 16-24V ~50/60 Hz1.5A max or 18-24V — 1,5A max power supply which must be approved by LST EN 60950-1 standard and be easily accessible nearby the device. When connecting the power supply to the system, switching the pole terminals places does not have any affect.



Any additional devices linked to the system ESIM364 (computer, sensors, relays etc.) must be approved by LST EN 60950-1 standard.



The power supply can be connected to AC mains only inside installation room with automatic 2-pole circuit breaker capable of disconnecting circuit in the event of short circuit or over-current condition. Open circuit breaker must have a gap between connections of more than 3mm (0.12in) and the disconnection current 5A.





Mains power and backup battery must be disconnected before any installation or tuning work starts. The system installation or maintenance must not be done during stormy conditions



Backup battery must be connected via the connection which in the case of breaking would result in disconnection of one of battery pole terminals. Special care must be taken when connecting positive and negative battery terminals. Switching the pole terminals places is NOT allowed.



In order to avoid fire or explosion hazards the system must be used only with approved backup battery.



The device is fully turned off by disconnecting 2-pole switch off device of the main power supply and disconnecting backup battery connector.



Fuse F1 type - Slow Blown 3A. Replacement fuses have to be exactly the same as indicated by the manufacturer.



If you use I security class computer for setting the parameters it must be connected to earth.



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed on in an approved and environmentally safe recycling process. For further information no how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

Contents

| _ | | _ |
|-----|---|------|
| 1. | GENERAL INFORMATION | |
| | 1.1. Functionality | |
| | 1.2. Compatible Device Overview | Е |
| | 1.3. Default Parameters and Ways of Parameter Configuration | Е |
| 2 | TECHNICAL SPECIFICATIONS | 13 |
| | 2.1. Electrical and Mechanical Characteristics | |
| | | |
| | 2.2. Main Unit, LED Indicator and Connector Functionality | |
| | 2.3. Wiring Diagrams | |
| 3. | INSTALLATION | 21 |
| 4 | GENERAL OPERATIONAL DESCRIPTION | 25 |
| | | |
| 5. | CONFIGURATION METHODS | |
| | 5.1. SMS Text Messages | |
| | 5.2. EKB2 LCD Keypad | 26 |
| | 5.3. EKB3/EKB3W LED Keypad | 27 |
| | 5.4. ELDES Configuration Tool Software | 28 |
| _ | SMS PASSWORD AND INSTALLER CODE | |
| | | |
| | SYSTEM LANGUAGE | |
| 8. | USER PHONE NUMBERS | 32 |
| | 8.1. User Phone Number Names | 3 |
| | 8.2. System Control from any Phone Number | |
| _ | DATE AND TIME | |
| 9. | | |
| | 9.1. Automatic Date and Time Synchronization | |
| 10. | MASTER AND USER CODES | . 36 |
| | 10.1. Master and User Code Names | 38 |
| 11 | IBUTTON KEYS | 30 |
| | 11.1 Adding and Removing iButton Keys | |
| | 11.1. Adding and Removing Button Reys | |
| | | |
| 12. | ARMING AND DISARMING | |
| | 12.1. Free of Charge Phone Call | |
| | 12.2. SMS Text Message | 42 |
| | 12.3. EKB2 Keypad and User/Master Code | 43 |
| | 12.4. EKB3 Keypad and User/Master Code | |
| | 12.5. EKB3W Keypad and User/Master Code | 47 |
| | 12.6. iButton Key | 40 |
| | 12.7 EWK1/EWK2 Wireless Keyfob. | |
| | | |
| | 12.8. Arm-Disarm by Zone | |
| | 12.9. Disabling and Enabling Arm/Disarm Notifications | |
| 13. | EXIT AND ENTRY DELAY | 53 |
| 14 | ZONES | 55 |
| | 14.1 Zone Numbering | |
| | 14.1 Zone Expansion | |
| | 14.3. 6-Zone Mode | |
| | | |
| | 14.4. ATZ (Advanced Technology Zone) Mode | |
| | 14.5. Zone Type Definitions | |
| | 14.6. Zone Attributes | |
| | 14.7. Bypassing and Activating Zones | 61 |
| | 14.8. Zone Names | 61 |
| | 14.9. Disabling and Enabling Zones | |
| | 14.10. Viewing Zone State | |
| 4.5 | STAY MODE | |
| | | |
| 16. | TAMPERS | |
| | 16.1. Tamper Names | 66 |
| 17. | ALARM INDICATIONS AND NOTIFICATIONS FOR USER | 67 |
| -/. | 17.1. Enabling and Disabling Alarm Notifications | |
| | 17.2 Audio Files and Introduction audio. | |
| | | |
| 18. | PROGRAMMABLE (PGM) OUTPUTS | |
| | 18.1. PGM Output Numbering | |
| | 18.2. PGM Output Expansion | |
| | 18.3. PGM Output Names | 72 |
| | 18.4. Enabling and Disabling PGM Outputs | 72 |
| | 18.5. Turning PGM Outputs ON and OFF | |
| | 18.6. PGM Output Control by Event and Scheduler | 74 |
| | 18.7. Wireless PGM Output Type Definitions. | |
| | | |

| 19. |). WIRELESS DEVICES | 76 |
|--|---|---------------------------------|
| | 19.1. Pairing, Removing and Replacing Wireless Device | |
| | 19.2. Wireless Device Information | |
| | 19.3. Wireless Signal Status Monitoring | |
| | 19.4. Disabling and Enabling Siren if Wireless Signal is Lost | |
| | 19.5. EKB3W - Wireless LED Keypad | |
| | 19.6. EWR2 - Wireless Signal Repeater | |
| | 19.7. EWF1/EWF1CO - Wireless Smoke/CO Detector | |
| | 19.8. EW2 - Wireless Zone and PGM Output Expansion Module | |
| | | |
| 20. |). WIRED SIREN/BELL | |
| | 20.1. BELL Output Status Monitoring | |
| | 20.2. Bell Squawk | |
| | 20.3. Bell Squawk in Stay Mode | |
| | 20.5. Indication by EWS3 - Wireless Indoor Siren Indicators | 90 |
| | L. BACKUP BATTERY, MAINS POWER STATUS MONITORING AND MEMORY | |
| 21. | 21.1. Backup Battery Status Monitoring | 92 |
| | 21.2. Mains Power Status Monitoring | عو |
| | 21.3. Memory | |
| | | |
| 22. | 2. GSM CONNECTION AND ANTENNA STATUS MONITORING | |
| | 22.1. GSM Connection Status Monitoring | |
| | | |
| 23. | 3. PARTITIONS | |
| | 23.1. Zone Partition | |
| | 23.3. Keypad Partition and Keypad Partition Switch | |
| | 23.4. User/Master Code Partition | |
| | 23.5. iButton Key Partition | 101 |
| | 23.6. EWK1/EWK2/EWK2A Wireless Keyfob Partition | 101 |
| 24 | I. TEMPERATURE SENSORS | |
| 24. | 24.1. Adding, Removing and Replacing On-Board Temperature Sensors | 102 |
| | 24.2 Primary and Socondary Temporature Sonsors | 103 |
| | 24.2. Primary and Secondary Temperature Sensors | 104 |
| | 24.4. Temperature Sensor Names | 105 |
| | | |
| 25. | | |
| | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION | 107 |
| | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION | 107 108 |
| | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION | 107 108 108 |
| 26. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION | |
| 26. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG | |
| 26. 27. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG | |
| 26. 27. 28. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. 28. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. 28. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. 28. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS. 27.1. SMS Text Message Delivery Restrictions. 27.2. SMSC (Short Message Service Center) Phone Number. 8. EVENT AND ALARM LOG. 28.1. Event Log 28.2. Alarm Log 9. INDICATION OF SYSTEM FAULTS D. MONITORING STATION 30.1. Data Messages – Events | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions. 27.2. SMSC (Short Message Service Center) Phone Number. 8. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 3. INDICATION OF SYSTEM FAULTS D. MONITORING STATION 30.1. Data Messages - Events 30.2. Communication | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 30.1. DIALARM LOG 30.1. Data Messages - Events 30.2. Communication 30.1. Data Management 31.1. Disabled Mode | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions. 27.2. SMSC (Short Message Service Center) Phone Number. 8. EVENT AND ALARM LOG. 28.1. Event Log 28.2. Alarm Log. 9. INDICATION OF SYSTEM FAULTS. 9. MONITORING STATION 30.1. Data Messages – Events. 30.2. Communication. 1. DIAL SIM MANAGEMENT. 31.1. Disabled Mode. 31.2. Automatic Mode | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 38. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 30. INDICATION OF SYSTEM FAULTS D. MONITORING STATION 30.1. Data Messages - Events 30.2. Communication DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.3. Manual Mode | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward. 7. SYSTEM NOTIFICATIONS. 27.1. SMS Text Message Delivery Restrictions. 27.2. SMSC (Short Message Service Center) Phone Number. 28. EVENT AND ALARM LOG. 28.1. Event Log. 28.2. Alarm Log. 30. INDICATION OF SYSTEM FAULTS. 30. MONITORING STATION. 30.1. Data Messages – Events. 30.2. Communication. 4. DUAL SIM MANAGEMENT. 31.1. Disabled Mode. 31.2. Automatic Mode. 23.3. Manual Mode. | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 30.1. DINDICATION OF SYSTEM FAULTS 30.1. Data Messages - Events 30.2. Communication 30.1. Data Management 31.1. Disabled Mode 31.2. Automatic Mode 31.3. Manual Mode 29. WIRED DEVICES 32.1. RS485 Interface | |
| 26. 27. 28. 29. 30. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS. 26.1. Periodic Info SMS. 26.2. SMS Forward. 7. SYSTEM NOTIFICATIONS. 27.1. SMS Text Message Delivery Restrictions. 27.2. SMSC (Short Message Service Center) Phone Number. 28. EVENT AND ALARM LOG. 28.1. Event Log. 28.2. Alarm Log. 30. INDICATION OF SYSTEM FAULTS. 30. MONITORING STATION. 30.1. Data Messages – Events. 30.2. Communication. 4. DUAL SIM MANAGEMENT. 31.1. Disabled Mode. 31.2. Automatic Mode. 23.3. Manual Mode. | |
| 26. 27. 28. 29. 30. 31. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log. 3. INDICATION OF SYSTEM FAULTS D. MONITORING STATION 30.1. Data Messages - Events 30.2. Communication 1. DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.3. Manual Mode 28.1. RS485 Interface 32.3. INVIEI Interface 32.3. Modules Interface | |
| 26. 27. 28. 29. 30. 31. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS. 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 8. EVENT AND ALARM LOG. 28.1. Event Log. 28.2. Alarm Log. 9. INDICATION OF SYSTEM FAULTS 9. INDICATION OF SYSTEM FAULTS 9. MONITORING STATION 30.1. Data Messages – Events 30.2. Communication 1. DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.3. Manual Mode. 2. WIRED DEVICES 32.1. RS485 Interface 32.2. 1-Wire Interface. 32.3. Modules Interface. 32.3. Modules Interface. | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 28.2. Alarm Log 30.1. DIATON OF SYSTEM FAULTS 30.1. Data Messages – Events 30.2. Communication 30.1. Diabled Mode 31.2. Automatic Mode 31.2. Automatic Mode 31.3. Manual Mode 28.2. I-Wire Interface 32.3. Modules Interface 32.3. Modules Interface 32.3. MODULES INTERFACE 3. SERVICE MODE 3. REMOTE SYSTEM RESTART. | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 30. INDICATION OF SYSTEM FAULTS 30. INDICATION OF SYSTEM FAULTS 30.1. Data Messages - Events 30.2. Communication 4. DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.2. Automatic Mode 31.3. Manual Mode 2.2. I-Wire Interface 32.3. Modules Interface 32.3. Modules Interface 32.3. SERVICE MODE 3. SERVICE MODE 3. REMOTE SYSTEM RESTART 5. EN 50131-1 GRADE 3 | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 8. EVENT AND ALARM LOG. 28.1. Event Log 28.2. Alarm Log 9. INDICATION OF SYSTEM FAULTS 9. MONITORING STATION 30.1. Data Messages – Events 30.2. Communication 1. DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.3. Manual Mode 9. WIRED DEVICES 32.1. RS485 Interface 32.2. 1-Wire Interface 32.3. Modules Interface 32.3. Modules Interface 35. SERVICE MODE 15. EN 50131-1 GRADE 3 5. ELDES CLOUD SERVICES | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number. 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 28.1. Event Log 28.2. Alarm Log 30.1. INDICATION OF SYSTEM FAULTS 30.1. Data Messages - Events 30.2. Communication 30.1. Diabled Mode 31.2. Automatic Mode 31.3. Ananual Mode 2. WIRED DEVICES 32.1. RS485 Interface 32.2. 1-Wire Interface 32.3. Modules Interface 35. EEIDES CLOUD SERVICES 77.1. Troubleshooting | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS 27.1. SMS Text Message Delivery Restrictions 27.2. SMSC (Short Message Service Center) Phone Number 3. EVENT AND ALARM LOG 28.1. Event Log 28.2. Alarm Log 30. INDICATION OF SYSTEM FAULTS 30. INDICATION OF SYSTEM FAULTS 30.1. Data Messages - Events 30.2. Communication 4. DUAL SIM MANAGEMENT 31.1. Disabled Mode 31.2. Automatic Mode 31.2. Automatic Mode 31.3. Manual Mode 29. WIRED DEVICES 20. INFORMATION 20. SIMPLED SEVICES 20. INFORMATION 20. SIMPLED SEVICES 20. SERVICE MODE 31. REMOTE SYSTEM RESTART 5. EN 50131-1 GRADE 3 5. ELDES CLOUD SERVICES 7. TECHNICAL SUPPORT 37.1. Troubleshooting 37.2. Restoring Default Parameters | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS | |
| 26. 27. 28. 29. 30. 31. 32. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS | |
| 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. | 5. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION 5. SYSTEM INFORMATION. INFO SMS 26.1. Periodic Info SMS 26.2. SMS Forward 7. SYSTEM NOTIFICATIONS | |

Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against such events.

"ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system.

"ELDES UAB" liability according to local laws does not exceed value of the purchased system. "ELDES UAB" is not affiliated with any of the cellular providers therefore is not responsible for the quality of cellular service.

Manufacturer Warranty

The system carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date.

The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environments or other *force majeure* factors.

Content of Pack

| Item | Quantity |
|------------------------------------|----------|
| 1. ESIM364 | 1 |
| 2. Microphone | 1 |
| 3. SMA antenna | 2 |
| 4. Buzzer | 1 |
| 5. Back-up battery connection wire | 1 |
| 6. User manual | 1 |
| 7. Resistors 5,6kΩ | 12 |
| 8. Resistors 3,3kΩ | 6 |
| 9. Plastic standoffs | 4 |
| | |

About Installation Manual

This document describes detailed installation and operation process of alarm system ESIM364. It is very important to read the installation manual before starting to use the system.

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C€1383

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



15.105 statement (for digital devices)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

1. GENERAL INFORMATION

1.1. Functionality

ESIM364 - micro-controller based alarm system for houses, cottages, country homes, garages and other buildings, also capable of managing electrical appliances via cellular GSM/GPRS network. It can also be used as Intercom system.

Examples of using the system:

- Property security.
- Alarm switch.
- · Thermostat, heating and air-conditioner control, temperature monitoring.
- Lighting, garden watering, water pump and other electrical equipment control via SMS text messages.
- Remote listening to what is happening in the secured area.
- Mains power status notification by SMS text message.
- Two-way intercom device via GSM network.

1.2. Compatible Device Overview

| | Wired Devices | | | | | |
|-------------|---|--------------------------|--|--|--|--|
| Device | Description | Max. Connectible Devices | | | | |
| EKB2 | LCD keypad | 4* | | | | |
| EKB3 | LED keypad | 4* | | | | |
| EA1 | Audio output module with 3,5mm jack | 1** | | | | |
| EA2 | Audio amplifier module $1W8\Omega$ | 1** | | | | |
| EPGM1 | 16 zone and 2 PGM output expansion module | 2 | | | | |
| ELAN3-ALARM | Ethernet communicator | 1 | | | | |
| EPGM8 | 8 PGM output expansion module | 1** | | | | |

| | Wireless Devices | | | | |
|-----------|--|--------------------------|--|--|--|
| Device | Description | Max. Connectible Devices | | | |
| EW2 | Wireless 2 zone and 2 PGM output expansion module | 16**** | | | |
| EWP2 | Wireless motion detector | 32*** | | | |
| EWD2 | Wireless magnetic door contact/shock sensor/flood sensor | 32*** | | | |
| EWK1**** | Wireless keyfob with 4 buttons | 5*** | | | |
| EWK2**** | Wireless keyfob with 4 buttons | 5*** | | | |
| EWS3 | Wireless indoor siren | 32*** | | | |
| EWK2A**** | Wireless keyfob with 1 button | 5*** | | | |
| EWS2 | Wireless outdoor siren | 32*** | | | |
| EKB3W | Wireless LED keypad | 4*** | | | |
| EWF1 | Wireless smoke detector | 32*** | | | |
| EWF1CO | Wireless smoke and CO detector | 32*** | | | |
| EWR2 | Wireless signal repeater | 4*** | | | |
| EWM1 | Wireless power socket | 32*** | | | |

^{* -} A mixed combination of EKB2 and EKB3 keypads is supported. The combination can consist of up to 4 keypads in total.

1.3. Default Parameters and Ways of Parameter Configuration

| | Main Settings | | | | | | |
|-------------------------------------|-------------------------|-------|------------------|----------------|-----------------------|--|--|
| | | Confi | Configurable by: | | | | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ EKB3W | Configuration Tool | | |
| User 1 10 name | N/A | | | | ✓ | | |
| User 1 10 phone number | N/A | ✓ | ✓ | ✓ | ✓ | | |
| User 1 10 partition | Partition 1 | | ✓ | ✓ | ✓ | | |
| User 110 - call in case of alarm | Enabled | | ✓ | ✓ | ✓ | | |
| Allow control from any phone number | Disabled | ✓ | ✓ | ✓ | ✓ | | |
| SMS password | 0000 | ✓ | ✓ | ✓ | ✓ | | |
| SMS language | Depends on the firmware | | | | | | |
| Partition 1 name | PART1 | | | | ✓ | | |
| Partition 2 name | PART2 | | | | ✓ | | |
| Partition 3 name | PART3 | | | | ✓ | | |

^{** -} Only 1 of these modules can be connected at a time if the module slots are implemented in ESIM364 unit.

^{*** -} A mixed combination of wireless devices is supported. The combination can consist of up to 32 wireless devices in total.

^{**** -} A mixed combination of EWK1, EWK2 and EWK2A keyfobs is supported. The combination can consist of up to 5 keyfobs in total.

^{***** -} EW2 creates 4 wireless zones, therefore the max. number of connectible EW2 devices is 16 if no keypad zones, no EPGM1 and no virtual zones exist in the system's configuration.

| Partition 4 name | PART4 | | | | ✓ |
|---|----------------------|---|---|---|---|
| Partition 1 4 exit delay | 15 seconds | ✓ | ✓ | ✓ | ✓ |
| GSM signal loss indication - delay | 180 seconds | | | | ✓ |
| GSM signal loss indication – activate output | N/A | | | | ✓ |
| Dual SIM management - SIM card switch | Disabled | | | | ✓ |
| Dual SIM management - try to find operator for a maximum of | 3 time (s) | | | | ✓ |
| Dual SIM management – send SMS/call via | Currently in use SIM | | | | ✓ |

| Dual SIM management - send SMS/call via | Currently in use SIM | | I | | • |
|--|--|------------------|----------|----------------|-----------------------|
| | Main Settings | | | | |
| | | Configurable by: | | | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ EKB3W | Configuration Tool |
| | Passwords/Codes | | | | |
| Installer's code | 1470 | | ✓ | ✓ | ✓ |
| Duress code | N/A | | ✓ | ✓ | √ |
| SGS code | N/A | | ✓ | ✓ | √ |
| Passwords/codes format | 4-digit | | | | ✓ |
| Prompt additionally for master code when configuring via keypad/software | Disabled | | | | ✓ |
| Master code | 1111 | | ✓ | ✓ | ✓ |
| Master code name | N/A | | | | ✓ |
| Master code partition | Partition 1, Partition 2, Partition 3, Partition 4 | | ~ | ✓ | ✓ |
| User code 2 30 | N/A | | ✓ | ✓ | ✓ |
| User code 2 30 name | N/A | | | | ✓ |
| User code 2 30 partition | Partition 1 | | ✓ | ✓ | ✓ |
| | Faults | | | | , |
| Main power loss | Enabled | | | | ✓ |
| Low battery | Enabled | | | | ✓ |
| Battery dead or missing | Enabled | | | | ✓ |
| Battery failed | Enabled | | | | ✓ |
| Siren failed | Enabled | | | | ✓ |
| Tamper alarm | Enabled | | | | ✓ |
| Date/time not set | Enabled | | | | √ |
| GSM connection failed | Enabled | | | | √ |
| GSM antenna failed | Enabled | | | | √ |
| Wireless antenna failed | Enabled | | | | √ |
| Keypad lost | Enabled | | | | ✓ |
| CO Level Critical | Enabled | | | | √ |
| Wireless Power Socket Fault | Enabled | | | | √ |
| Wireless Device Low Battery | Enabled | | | | √ |
| · | Notifications | | | | • |
| System armed - User 1 10 | Enabled | | ✓ | ✓ | ✓ |
| System armed - SMS delivery report | Enabled | | √ | √ | √ |
| System disarmed - User 1 10 | Enabled | | ✓ | ✓ | ✓ |
| System disarmed - SMS delivery report | Enabled | | √ | ✓ | √ |
| General alarm - User 1 10 | Enabled | | V | √ | √ |
| General alarm - SMS delivery report | Enabled | | 1 | ✓ | √ |
| Main power loss/restore - User 1 10 | Enabled | | √ | √ | ✓ |
| Main power loss/restore - SMS delivery report | Enabled | | ✓ | ✓ | ✓ |
| Battery failed - User 1 10 | Enabled | | √ | ✓ | √ |
| Battery failed - SMS delivery report | Enabled | | √ | √ | √ |
| Battery dead or missing - User 1 10 | Enabled | | √ | √ | √ |
| Battery dead or missing - SMS delivery report | Enabled | | √ | √ | √ |
| Low battery - User 1 10 | Enabled | | √ | √ | √ |
| Low battery - SMS delivery report | Enabled | | ✓ | √ | √ |
| Siren fail/restore - User 1 10 | Disabled | | / | √ | ✓ |
| Siren fail/restore – SMS delivery report | Disabled | | ✓ | √ | ✓ |
| Date/time not set - User 1 10 | Disabled | | / | 1 | ✓ |

| Event log | Enabled | ✓ | ✓ | ✓ | ✓ | |
|---|----------|---|----------|----------|----------|--|
| Event Log | | | | | | |
| Synchronization frequency | 30 days | | | | ✓ | |
| Phone number of the currently inserted SIM card | N/A | | | | ✓ | |
| Time synchronization over GSM network | Disabled | | | | ✓ | |
| Time Synchronization | | | | | | |
| Send to all users simultaneously - all notifications | Disabled | | ✓ | ✓ | ✓ | |
| Report/Control zone triggered - SMS delivery report | Enabled | | ✓ | ~ | ✓ | |
| Report/Control zone triggered - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| EWM1 wireless signal loss/restore - SMS delivery report | Disabled | | | ✓ | ✓ | |
| EWM1 wireless signal loss/restore - User 1 10 | Disabled | | | ✓ | ✓ | |
| CO level critical - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| CO level critical - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| Zone bypass - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| Zone bypass - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| Unable to arm - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| Unable to arm - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| Wireless signal loss - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| Wireless signal loss - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| Periodical info – SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| Periodical info - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| System started - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| System started - User 1 10 | Enabled | | ✓ | ✓ | ✓ | |
| Temperature info - SMS delivery report | Enabled | | √ | ✓ | ✓ | |
| Temperature info - User 1 10 | Enabled | | √ | ✓ | ✓ | |
| Keypad loss/restore - SMS delivery report | Enabled | | ✓ | ✓ | ✓ | |
| Keypad loss/restore - User 110 | Enabled | | ✓ | ✓ | ✓ | |
| Tamper alarm/restore - SMS delivery report | Enabled | | V | ✓ | ✓ | |
| Tamper alarm/restore - User 1 10 | Enabled | | √ | ✓ | ✓ | |
| GSM antenna fail/restore - SMS delivery report | Disabled | | ✓ | ✓ | √ | |
| GSM antenna fail/restore - User 1 10 | Disabled | | √ | ✓ | ✓ | |
| GSM connection failed – SMS delivery report | Disabled | | ✓ | ✓ | ✓ | |
| GSM connection failed - User 1 10 | Disabled | | 1 | 1 | ✓ | |
| Date/time not set - SMS delivery report | Disabled | | ✓ | ✓ | ✓ | |

| Zones | | | | | | | |
|--|------------------|-------|---------|----------------|-----------------------|--|--|
| | | Confi | gurable | by: | | | |
| Parameter | Default Value | | EKB2 | EKB3/ EKB3W | Configuration Tool | | |
| On Board Control of the Control of t | | | | | | | |
| Z1 Z6 zone name | Zone1 Zone6 | ✓ | | | ✓ | | |
| Z1 type | Delay | | ✓ | ✓ | ✓ | | |
| Z1 Z6 zone status | Enabled | ✓ | ✓ | ✓ | ✓ | | |
| Z2 Z6 type | Instant | | ✓ | ✓ | ✓ | | |
| Z1 Z6 delay, ms | 800 milliseconds | | | | ✓ | | |
| Z1 Z6 - Stay | Disabled | | ✓ | ✓ | ✓ | | |
| Z1 Z6 - Force | Disabled | | ✓ | ✓ | ✓ | | |
| Z1 Z6 Tamper name | Tamper1 Tamper6 | | | | ✓ | | |
| Delay-type zone - entry delay | 15 seconds | ✓ | ✓ | ✓ | ✓ | | |
| Z1 Z6 partition | Partition 1 | | ✓ | ✓ | ✓ | | |
| Z1 Z6 - Shared | Disabled | | | | ✓ | | |
| Z1 Z6 - audio track | N/A | | | | ✓ | | |
| Z1 Z6 - alarm count to bypass | 0 | | | | ✓ | | |
| Cross-Zone/Intelli-Zone | N/A | | | | ✓ | | |
| Confirmation Timeout | 20 seconds | | | | ✓ | | |
| Tamper 1 6 status | Enabled | | | | ✓ | | |
| Z1 Z6 - zone connection type | Type 1 | | | | ✓ | | |
| Delay becomes Instant in STAY mode | Disabled | | | | ✓ | | |
| Chime | Enabled | | ✓ | ✓ | ✓ | | |

| ATZ mode | Disabled | | ./ | ./ | √ |
|--|--|----------|----------|----------|----------|
| Arm-disarm by zone No1 No4 | N/A | | · | v | √ |
| 7 IIII disami by zone Nozi No i | EPGM1 Module | | 1 | | |
| Zone name | Zone X | ✓ | | | ✓ |
| Zone status | Enabled | ✓ | V | ✓ | ✓ |
| Туре | Instant | | ✓ | ✓ | ✓ |
| Delay, ms | 800 milliseconds | | | | ✓ |
| Stay | Disabled | | ✓ | ✓ | ✓ |
| Force | Disabled | | √ | ✓ | ✓ ✓ |
| Tamper name | Tamper X | | / | ✓ | ✓ ✓ |
| Delay-type zone - entry delay Partition | 15 seconds Partition 1 | | √ | √ | √ |
| Shared | Disabled | | ľ | , | · ✓ |
| Audio track | N/A | | | | √ |
| Alarm count to bypass | 0 | | | | ✓ |
| Cross-Zone/Intelli-Zone | N/A | | | | ✓ |
| Confirmation Timeout | 20 seconds | | | | ✓ |
| Tamper status | Enabled | | | | ✓ |
| Zone connection type for all EPGM1 zones | Type 1 | | | | √ |
| | Wireless Devices | | | | |
| Zone name | Zone X | ✓ | | | ✓ |
| Zone status | Enabled | √ | √ | ✓ | ✓ |
| Type | Depends on the connected wireless device | | 1 | 1 | 1 |
| Туре | model | | | | |
| Stay | Disabled | | ✓ | ✓ | ✓ |
| Force | Disabled | | ✓ | ✓ | ✓ |
| Tamper name | Tamper X | | | | ✓ |
| Delay-type zone – entry delay | 15 seconds | | ✓ | ✓ | ✓ |
| Partition | Partition 1 | | ✓ | ✓ | ✓ |
| Shared | Disabled | | | | ✓ |
| Audio track | N/A | | | | ✓ |
| Alarm count to bypass | 0 | | | | ✓ |
| Cross-Zone/Intelli-Zone | N/A | | | | ✓ |
| Confirmation Timeout | 20 seconds | | | | ✓ |
| Tamper status | Enabled | | | | ✓ |
| | Keypads | | | | |
| Zone name | Zone X | ✓ | | | ✓ |
| Zone status | Disabled | ✓ | ✓ | ✓ | ✓ |
| Туре | Instant | | ✓ | ✓ | ✓ |
| Stay | Disabled | | ✓ | ✓ | ✓ |
| Force | Disabled | | ✓ | ✓ | ✓ |
| Tamper name | Tamper X | | | | ✓ |
| Delay-type zone - entry delay | 15 seconds | | ✓ | ✓ | ✓ |
| Partition | Partition 1 | | ✓ | ✓ | ✓ |
| Shared | Disabled | | | | ✓ |
| Audio track | N/A | | | | ✓ |
| Alarm count to bypass | 0 | | | | ✓ |
| Cross-Zone/Intelli-Zone | N/A | | | | ✓ |
| Confirmation Timeout | 20 seconds | | | | ✓ |
| Tamper status | Enabled | | | | √ |
| | Virtual Zones | | | | |
| Zone name | Zone X | | | | ✓ |
| Zone status | Disabled | | | ✓ | ✓ |
| Туре | Instant | | | √ | √ |
| Force | Disabled | | | √ | √ |
| Delay-type zone - entry delay | 15 seconds | | | √ | √ |
| Partition | Partition 1 | | | √ | ✓ |
| Shared | Disabled | | | | √ |
| Alarm count to bypass | 0 | | | | √ |
| | | | | | |

| Cross-Zone/Intelli-Zone | N/A | | ✓ |
|-------------------------|------------|--|---|
| Confirmation Timeout | 20 seconds | | ✓ |
| Tamper status | Enabled | | ✓ |

| PGM Outputs | | | | | |
|---------------------|--|-----|------------------|----------------|-----------------------|
| | | | Configurable by: | | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ EKB3W | Configuration Tool |
| | On Board | | | | |
| C1 C4 output name | Controll1 Controll4 | ✓ | | | ✓ |
| C1 C4 output state | OFF | ✓ | ✓ | ✓ | ✓ |
| C1 C4 output status | Disabled | | | | ✓ |
| Using module EPGM8 | Disabled | | ✓ | ✓ | ✓ |
| | EPGM1 Module | | | | |
| Output name | ControllX | ✓ | | | ✓ |
| State | OFF | ✓ | ✓ | ✓ | ✓ |
| Status | Disabled | | | | ✓ |
| | Wireless Devices | | | | |
| Output name | ControllX | ✓ | | | ✓ |
| Туре | Depends on the connected wireless device model | | | | ✓ |
| State | OFF | ✓ | ✓ | ✓ | ✓ |
| Status | Disabled | | | | ✓ |

| MS Settings | | | | | |
|--|--|----------|----------|----------|-----------------------|
| | | Confi | gurable | by: | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ | Configuration Tool |
| | Management | | | | |
| MS mode | Disabled | ✓ | ✓ | ✓ | ✓ |
| Account | 9999 | | ✓ | ✓ | ✓ |
| GSM and SMS - attempts | 5 | | ✓ | ✓ | ✓ |
| GSM and SMS - tel. number 1 3 | N/A | | ✓ | ✓ | ✓ |
| PSTN - treat PSTN call as user call | Disable | | | | ✓ |
| PSTN - attempts | 5 | | ✓ | ✓ | ✓ |
| PSTN - tel. number 1 3 | N/A | | ✓ | ✓ | ✓ |
| CSD - attempts | 5 | | ✓ | ✓ | ✓ |
| CSD - tel. number 1 5 | N/A | | ✓ | ✓ | ✓ |
| IP Server 1 3 - IP attempts | 3 | | ✓ | ✓ | ✓ |
| IP Server 1 3 - test period | 180 seconds | | ✓ | ✓ | ✓ |
| IP Server 1 3 - protocol | UDP | √ | ✓ | √ | ✓ |
| IP Server 13 - unit ID | 0000 | | ✓ | ✓ | ✓ |
| IP Server 1 3 - communication protocol | EGR100 | | ✓ | ✓ | ✓ |
| IP Server 1 3 - server IP | 0.0.0.0 | √ | ✓ | ✓ | ✓ |
| IP Server 1 3 - server port | 20000 | ✓ | ✓ | ✓ | ✓ |
| IP Server 1 3 - encryption key - status | Disabled | | | | ✓ |
| IP Server 1 3 - encryption key | 0000 | | | | ✓ |
| Communication - primary | IP Server 1 | | ✓ | ✓ | ✓ |
| Communication - backup 1 5 | N/A | | ✓ | ✓ | ✓ |
| Delay after last communication attempt | 600 seconds | | ✓ | ✓ | ✓ |
| SIA IP protocol settings - encryption | Disabled | | | | ✓ |
| SIA IP protocol settings - encryption key | 0000 | | | | ✓ |
| SIA IP protocol settings – account prefix | N/A | | | | ✓ |
| SIA IP protocol settings - receiver number | N/A | | | | ✓ |
| SIA IP protocol settings - Contact ID ping | Disabled | | | | ✓ |
| SIA IP protocol settings - data message | Event: 1602, partition: 01, user/zone: 000 | | | | ✓ |
| | Data Messages | | | | |
| Burglary alarm/restore - code | 130 | | | | ✓ |
| Burglary alarm/restore - status | Enabled | | ✓ | ✓ | ✓ |
| Main power loss/restore - code | 301 | | | | ✓ |
| Main power loss/restore - status | Enabled | | ✓ | ✓ | ✓ |
| Armed/disarmed by user - code | 401 | | | | ✓ |
| Armed/disarmed by user - status | Enabled | | ✓ | ✓ | ✓ |
| Test event - code | 602 | | | | ✓ |

| Test event - status | Enabled | ✓ | ✓ | ✓ |
|--|----------|----------|----------|----------|
| Battery failed - code | 309 | | | ✓ |
| Battery failed - status | Enabled | ✓ | ✓ | ✓ |
| Battery dead or missing – code | 311 | | | ✓ |
| Battery dead or missing - status | Enabled | ✓ | ✓ | ✓ |
| Tamper alarm/restore - code | 144 | | | ✓ |
| Tamper alarm/restore - status | Enabled | ✓ | ✓ | ✓ |
| Silent zone alarm/restore - code | 146 | | | ✓ |
| Silent zone alarm/restore - status | Enabled | ✓ | ✓ | ✓ |
| Kronos ping - code | 602 | | | ✓ |
| Kronos ping - status | Enabled | ✓ | ✓ | ✓ |
| System started - code | 900 | | | ✓ |
| System started - status | Enabled | 1 | ✓ | ✓ |
| 24H zone alarm/restore - code | 133 | | | ✓ |
| 24H zone alarm/restore - status | Enabled | 1 | / | ✓ |
| Fire zone alarm/restore - code | 110 | | | ✓ |
| Fire zone alarm/restore - status | Enabled | 1 | / | √ |
| Low battery - code | 302 | + | <u> </u> | √ |
| Low battery - status | Enabled | 1 | / | √ |
| Temperature exceeded - code | 158 | + | · | √ |
| Temperature exceeded - code Temperature exceeded - status | Enabled | 1 | / | √ |
| Temperature exceeded - Status Temperature fallen - code | 159 | + | * | √ |
| Temperature fallen - status | Enabled | / | ✓ | √ |
| | 381 | | V | √ |
| Wireless signal loss/restore - code | | / | / | √ |
| Wireless signal loss/restore - status | Enabled | - V | V | ✓ ✓ |
| Disarmed by user (duress code) - code | 121 | 1 | | * |
| Disarmed by user (duress code) - status | Enabled | ✓ | ✓ | √ |
| SGS code entered - code | 463 | 1 | | ✓ |
| SGS code entered - status | Enabled | ✓ | ✓ | ✓ |
| Armed by user (partial arm) – code | 456 | | | ✓ |
| Armed by user (partial arm) – status | Enabled | ✓ | ✓ | ✓ |
| Siren fail/restore - code | 321 | | | ✓ |
| Siren fail/restore - status | Disabled | ✓ | ✓ | ✓ |
| Date/time not set - code | 626 | | | ✓ |
| Date/time not set - status | Enabled | ✓ | ✓ | ✓ |
| GSM connection failed - code | 358 | | | ✓ |
| GSM connection failed - status | Enabled | ✓ | ✓ | ✓ |
| GSM antenna fail/restore - code | 359 | | | ✓ |
| GSM antenna fail/restore - status | Disabled | ✓ | ✓ | ✓ |
| System shutdown - code | 414 | | | ✓ |
| System shutdown - status | Enabled | ✓ | ✓ | ✓ |
| Keypad fail/restore - code | 330 | | | ✓ |
| Keypad fail/restore - status | Enabled | √ | ✓ | ✓ |
| GPRS connection lost - code | 354 | | | ✓ |
| GPRS connection lost - status | Enabled | ✓ | ✓ | ✓ |
| Zone bypass - code | 570 | | | ✓ |
| Zone bypass - status | Enabled | 1 | √ | ✓ |
| CO sensor lifetime exceeded -code | 380 | | | ✓ |
| CO sensor lifetime exceeded -status | Enabled | 1 | ✓ | ✓ |
| CO level critical - code | 162 | | | ✓ |
| CO level critical - status | Enabled | 1 | ✓ | ✓ |
| Report/Control zone triggered/restored - code | 150 | | | √ |
| Report/Control zone triggered/restored - status | Disabled | 1 | / | √ |
| Armed/disarmed in STAY mode - code | 144 | 1 | ľ. | √ |
| Armed/disarmed in STAY mode - code Armed/disarmed in STAY mode - status | Enabled | / | √ | · |
| Willien disquilled in 3 IVI Illone - 2 (atrix) | Litabled | 1 * | 1. | 1. |

| Control / Scheduler | | | | | |
|-------------------------|---------------|------------------|------|-------|-----------------------|
| | | Configurable by: | | | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ | Configuration Tool |
| PGM output control 1 16 | Disabled | | | | ✓ |
| Scheduler 1 16 | Disabled | | | | ✓ |
| Additional conditions | Disabled | | | | ✓ |

| | Peripheral Devices | | _ | | |
|--|---------------------|----------|------------------|----------------|-----------------------|
| | i i | Confi | Configurable by: | | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ EKB3W | Configuration Tool |
| | Keypads | | | | |
| Keypad 1 4 partition | Partition 1 | | ✓ | ✓ | ✓ |
| Show armed status in keypad | Disabled | | | | ✓ |
| Keypad partition switch | Disabled | | ✓ | ✓ | ✓ |
| EKB3 mode | 2 partitions | | | | ✓ |
| Wireless keypads - partition | Partition 1 | | ✓ | ✓ | ✓ |
| Wireless keypads - backlight timeout | 10 seconds | | | | ✓ |
| Wireless keypads - bell | Disabled | | | | ✓ |
| | Siren | | | | |
| EWS2 LED | Enabled | | ✓ | ✓ | ✓ |
| Bell squawk | Disabled | | ✓ | ✓ | ✓ |
| Activate siren if wireless device is lost | Disabled | | ✓ | ✓ | ✓ |
| EWS3 fire alarm LED | Disabled | | ✓ | ✓ | ✓ |
| EWS3 alarm LED | Disabled | | ✓ | ✓ | ✓ |
| Bell squawk enabled if arming in STAY mode | Disabled | | ✓ | ✓ | ✓ |
| | Temperature Sensors | | | | |
| Temperature sensor 1 8 name | N/A | ✓ | | | ✓ |
| Temperature sensor 1 8 min. temperature | 0 | ✓ | ✓ | ✓ | ✓ |
| Temperature sensor 1 8 max. temperature | 0 | ✓ | √ | ✓ | ✓ |
| Primary | No.1 | ✓ | ✓ | ✓ | ✓ |
| Secondary | No.2 | ✓ | ✓ | ✓ | ✓ |
| | iButton Keys | | | | |
| iButton key name | N/A | | | | ✓ |
| iButton key partition | Partition 1 | | ✓ | ✓ | ✓ |
| Allow adding new iButton keys | Disabled | ✓ | ✓ | ✓ | ✓ |

| System | | | | | |
|---------------------------|----------------------|-------|----------|-------|-----------------------|
| | | Confi | igurable | e by: | |
| Parameter | Default Value | SMS | EKB2 | EKB3/ | Configuration Tool |
| | Management | | | | |
| Mains power loss delay | 30 seconds | | ✓ | ✓ | ✓ |
| Mains power restore delay | 120 seconds | | ✓ | ✓ | ✓ |
| Alarm duration | 1 minute | ✓ | ✓ | ✓ | ✓ |
| Wireless channel | Depends on firmware | | | | ✓ |
| Periodic test | Every 1 day at 11:00 | ✓ | ✓ | ✓ | ✓ |
| Microphone level | 12 | | ✓ | | ✓ |
| Speaker level | 85 | | ✓ | | ✓ |
| Service mode | Disabled | ✓ | ✓ | ✓ | ✓ |
| | ELDES Cloud Services | | | | |
| ELDES Cloud Services | Disabled | ✓ | | | ✓ |
| Server address | ss.eldes.lt | ✓ | | | ✓ |
| Port | 8082 | ✓ | | | ✓ |
| Ping period | 180 seconds | ✓ | | | ✓ |
| Time zone | N/A | | | | ✓ |
| Communication | Via GPRS network | | | | ✓ |
| | GPRS Settings | | | | |
| SIM1 SIM2 APN | N/A | ✓ | | | ✓ |
| SIM1 SIM2 user name | N/A | ✓ | | | ✓ |
| SIM1 SIM2 password | N/A | ✓ | | | ✓ |
| DNS1 | N/A | ✓ | ✓ | ✓ | ✓ |
| DNS2 | N/A | ✓ | ✓ | ✓ | ✓ |

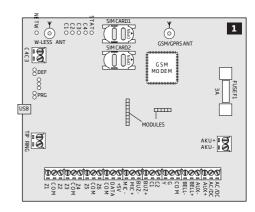
2. TECHNICAL SPECIFICATIONS

2.1. Electrical and Mechanical Characteristics

| Electrical and Mechanical Characteristics | |
|--|--|
| Power supply | 16-24V 50/60 Hz ~1.5A max / 18-24V 1,5A max |
| Current consumption in idle state w/o external devices connected | Up to 80mA |
| Recommended backup battery voltage, capacity | 12V; 1,3-7Ah |
| Recommended backup battery type | Lead-Acid |
| Backup battery charge current | Up to 500mA |
| Backup battery charge duration | Up to 30 hours for 7Ah battery |
| GSM modem frequency | 850/900/1800/1900MHz |
| Cable type for GSM/GPRS antenna connection | Shielded |
| Number of zones on-board | 6 (ATZ mode: 12) |
| Nominal zone resistance | 5,6kΩ (ATZ Mode: 5,6kΩ and 3,3kΩ) |
| Number of PGM outputs on-board | 4 |
| On-board PGM output circuit | Open collector output. Output is pulled to COM when turned ON. |
| Maximum commuting on-board PGM output values | 4 x 30V; 500mA |
| BELL: Siren output when activated | Connected to COM |
| BELL: Maximum siren output current | 1A |
| BELL: Maximum cable length for siren connection | Up to 100m (328.08ft) |
| BELL: Cable type for siren connection | Unshielded |
| AUX: Auxiliary equipment power supply voltage | 13,8V DC |
| AUX: Maximum accumulative current of auxiliary equipment | 1,1A |
| AUX: Maximum cable length for auxiliary equipment connection | Up to 100m (328.08ft) |
| AUX: Cable type for auxiliary equipment connection | Unshielded |
| BUZ: Maximum current of mini buzzer | 150mA |
| BUZ: Power supply voltage of buzzer | 5V DC |
| BUZ: Cable type for mini buzzer connection | Unshielded |
| Supported temperature sensor model | Maxim®/Dallas® DS18S20, DS18B20 |
| Maximum supported number of temperature sensors | 8 |
| DATA: Maximum cable length for 1-Wire communication | Up to 30m (98.43ft) |
| DATA: Cable type for 1-Wire communication | Unshielded |
| Supported iButton key model | Maxim®/Dallas® DS1990A |
| Maximum supported number of iButton keys | 16 |
| Maximum supported number of keypads | 4 x EKB2 / EKB3 |
| Y/G: Maximum cable length for RS485 communication | Up to 100m (328.08ft) |
| Y/G: Cable type for RS485 communication | Unshielded |
| MIC: Maximum cable length for microphone connection | Up to 2m (6.56ft) |
| MIC: Cable type for microphone connection | Unshielded |
| Wireless band | ISM868 /ISM 915 |
| Wireless communication range | Up to 30m (98.43ft) in premises; up to 150m (492.13ft) in open areas |
| Maximum supported number of wireless devices | 32 |
| Event log size | 500 events |
| Maximum supported number of zones | 76 |
| Maximum supported number of PGM outputs | 76 |
| Cable type for zone and PGM output connection | Unshielded |
| Generated PSTN line values | Voltage: 48V; current: 25mA; impedance: 270Ω |
| Communications | SMS, Voice calls, GPRS network CSD, PSTN, Ethernet via ELAN3-ALARM |
| Supported protocols | Ademco Contact ID, EGR100, Kronos, Cortex SMS, SIA IP |
| Dimensions | 140x100x18mm (5.51x3.94x0.71in) |
| Operating temperature range | -20+55°C(-4+131°F) |
| Humidity | 0-90% RH @ 0 +40°C (0-90% RH @ +32 +104°F) |
| | (non-condensing) |

2.2. Main Unit, LED Indicator and Connector Functionality

| Main Unit Functionality | | | | |
|-------------------------|--|--|--|--|
| GSM MODEM | GSM network 850/900/1800/1900MHz modem | | | |
| SIM CARD1 | Primary SIM card slot / holder | | | |
| SIM CARD2 | Secondary SIM card slot / holder | | | |
| DEF | Pins for restoring default settings | | | |
| USB | Mini USB port | | | |
| FUSE F1 | 3A fuse | | | |
| W-LESS ANT | Wireless antenna SMA type connector | | | |
| GSM/GPRS ANT | GSM/GPRS antenna SMA type connector | | | |
| MODULES* | Slots for EA1, EA2 or EPGM8 module | | | |



| LED Function | LED Functionality | | |
|--------------|-------------------------------|--|--|
| NETW | GSM network signal strength | | |
| C1 | PGM output C1 status - ON/OFF | | |
| C2 | PGM output C2 status - ON/OFF | | |
| C3 | PGM output C3 status - ON/OFF | | |
| C4 | PGM output C4 status - ON/OFF | | |
| STAT | Micro-controller status | | |

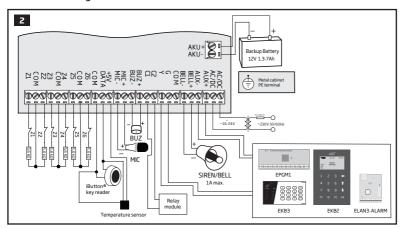
| NETW indication | GSM signal strength |
|---------------------------------|---------------------|
| OFF | No GSM signal |
| Flashing every 3 sec. | Poor |
| Flashing every 1 sec. | Medium |
| Flashing several times per sec. | Good |
| Steady ON | Excellent |

| Connecto | r Functionality |
|----------|--|
| TIP* | PSTN (landline) terminal |
| RING* | PSTN (landline) terminal |
| DATA | 1-Wire interface for iButton key and temperature sensor connection |
| +5V | Temperature sensor power supply terminal (+5V) |
| MIC- | Microphone negative terminal |
| MIC+ | Microphone positive terminal |
| BUZ- | Buzzer negative terminal |
| BUZ+ | Buzzer positive terminal |
| C1 - C4 | PGM output terminals |
| Z1 - Z6 | Security zone terminals |
| Υ | RS485 interface CLOCK terminal (yellow wire) |
| G | RS485 interface DATA terminal (green wire) |
| COM | Common return terminal |
| BELL- | Siren negative terminal |
| BELL+ | Siren positive terminal |
| AUX- | Negative power supply terminal for auxiliary equipment |
| AUX+ | Positive power supply terminal for auxiliary equipment |
| AC/DC | Main power supply terminals |
| AKU- | Backup battery negative terminal |
| AKU+ | Backup battery positive terminal |

^{* -} Optional, implementable on request in advance

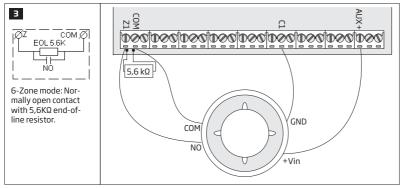
2.3. Wiring Diagrams

2.3.1.General Wiring

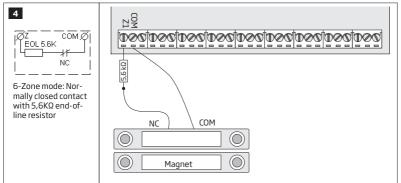


2.3.2. Zone Connection Types

Type 1 Example of 4-wire smoke detector wiring

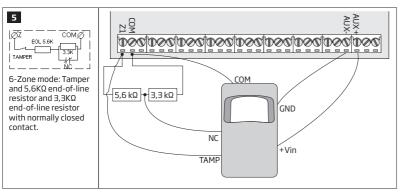


Type 2 Example of magnetic door contact wiring

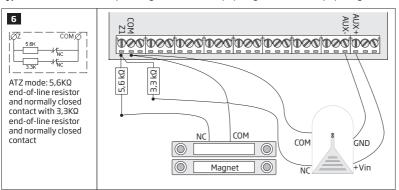


NOTE: Based on the example given, in the event of an alarm, the smoke detector could be reset by turning OFF and ON the PGM output C1. For more details, please refer to **18.4. Turning PGM Outputs ON and OFF.**

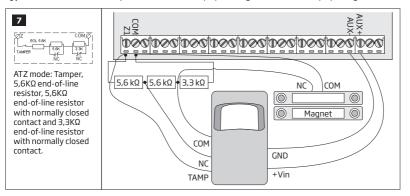
Type 3 Example of motion detector wiring



Type 4 Example of magnetic door contact (Z1) and glass break sensor (Z7) wiring

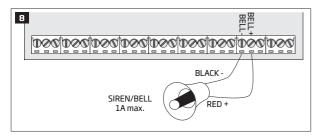


Type 5 Example of motion detector (Z1) and magnetic door contact (Z7) wiring



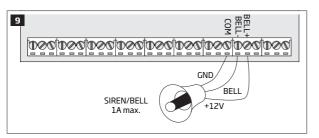
See also 14.3. 6-Zone Mode and 14.4. ATZ (Advanced Technology Zone) Mode.

2.3.3. Siren



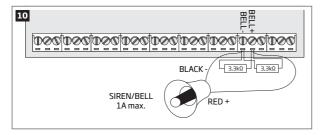
Piezo siren

- Connect positive siren wire (red) to **BELL+** terminal.
- 2 Connect negative siren wire (black) to BELLterminal



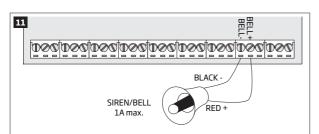
Self-contained siren

- Connect negative GND siren wire to COM terminal.
- 2 Controlling BELL siren wire must be connected to BELL- terminal.
- 3 Connect positive +12V siren wire to BELL+ terminal.



Siren status monitoring

By default, the system monitors siren status and indicates system fault on the keypad if the siren is broken/disconnected. However, this feature requires a pair of 3,3kQ nominal resistors connected in parallel across **BELL+** and **BELL-** terminals.



No siren status monitoring

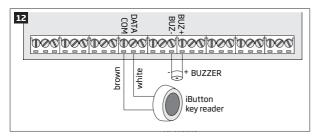
If the siren status monitoring feature is not required, do not connect any resistor in parallel and disable siren fault indication on the keypad (see 29. INDICATION OF SYSTEM FAULTS).

See also 20. SIREN/BELL.

NOTE: BELL- is the commuted terminal intended for siren control.

NOTE: Siren status monitoring feature supervises the resistance across **BELL+** and **BELL-** terminals. The resistance must be ranging from 1kΩ through 3,3kΩ, otherwise the system will indicate system fault. In order to view the siren resistance value, please refer to Diagnostic Management feature available on *ELDES Configuration Tool* software.

2.3.4. iButton Key Reader and Buzzer



Supported iButton key model: Maxim/Dallas DS1990A

The iButton key reader can be installed with buzzer or separately. The buzzer is intended for audio indication of exit/entry delay countdown providing short beeps.

- Connect iButton key reader brown and white wires to 1-Wire interface: COM and DATA terminals respectively.
- Connect buzzer's negative terminal wire to BUZand positive terminal wire to BUZ+.

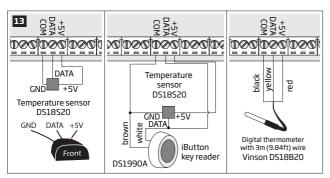
NOTE: The installation of buzzer is not necessary if EKB2/EKB3 keypad is used.

ATENTION: The cable length for connection to 1-Wire interface can be up to 30m (98.43ft) max.

2.3.5. Temperature Sensor and iButton Key Reader

Supported iButton key model: Maxim/Dallas DS1990A

Supported temperature sensor model: Maxim/Dallas DS18S20, DS18B20

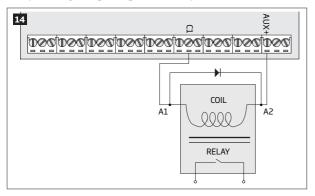


- 1 Depending on the model, connect temperature sensor GND/black wire, DATA/yellow wire, +5V/red wire terminals to 1-Wire interface: COM, DATA and +5V terminals respectively.
- 2 When connecting iButton key reader in parallel to temperature sensor, connect iButton key reader terminal wires to COM and DATA terminals respectively.

ATENTION: The cable length for connection to 1-Wire interface can be up to 30m (98.43ft) max.

2.3.6. Relay Finder 40.61.9.12 with Terminal Socket 95.85.3 to PGM Output

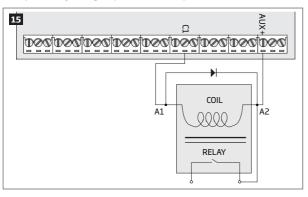
Example of relay wiring for negative PGM output control



- 1 Wire up relay A1 terminal to PGM output Cx and A2 terminal to AUX+.
- 2 In addition, connect the switching diode to relay's A2 and A1 terminals.

NOTE: We highly recommend using switching diode model 1N4148 or similar.

Example of relay wiring for positive PGM output control

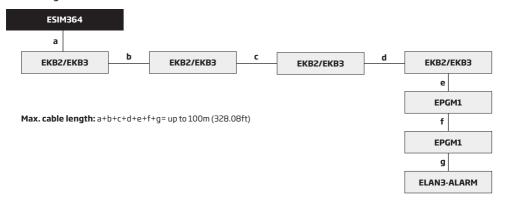


- 1 Wire up relay A1 terminal to PGM output's Cx terminal and A2 terminal to AUX+ and one of the relay's switch contacts: NC or NO.
- 2 In addition, connect the switching diode to relay's A2 and A1 terminals.

NOTE: We highly recommend using switching diode model 1N4148 or similar.

2.3.7. RS485

Serial Wiring Method



ATTENTION: The cable length must not exceed 100m (328.08ft) in total.

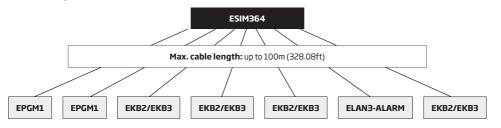
ATTENTION: When wiring more than 1 keypad and/or EPGM1 module, please ensure that the set address of each keypad and/or EPGM1 module is different.

NOTE: If necessary, the RS485 devices can be powered from an external 12-14V DC power supply instead of AUX+ and AUX- terminals

NOTE: You may connect only 1 EKB2/EKB3 keypad or a mixed combination of EKB2 and EKB3 keypads. The combination can consist of up to 4 keypads in total.

For more details on RS485 interface, please refer to 32.1. RS485 Interface

Parallel Wiring Method



ATTENTION: The cable between ESIM364 and each RS485 device must be of the same length and can NOT exceed 100m (328.08ft).

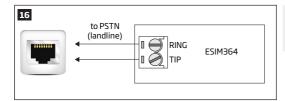
ATTENTION: When wiring more than 1 keypad and/or EPGM1 module, please ensure that the set address of each keypad and/or EPGM1 module is different.

NOTE: If necessary, the RS485 devices can be powered from an external 12-14V DC power supply instead of AUX+ and AUX- terminals

NOTE: You may connect only 1 EKB2/EKB3 keypad or a mixed combination of EKB2 and EKB3 keypads. The combination can consist of up to 4 keypads in total.

For more details on RS485 interface, please refer to 32.1. RS485 Interface

2.3.8. RING/TIP



ATTENTION: The TIP/RING connectors and PSTN module are NOT included in a standard ESIM364 alarm system unit. These components are optional and can be implemented on request in advance.

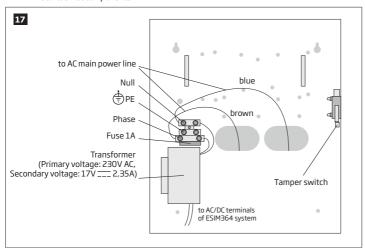
3. INSTALLATION

When professional installation, OEM integration or assembly by a third-party is expected, the installation instructions and assembly requirements approved for equipment approval must be provided to the integrators to clearly identify the specific requirements necessary to maintain RF exposure compliance. The grantee of a transmitter, typically the manufacturer, is responsible for ensuring installers and integrators have a clear understanding of the compliance requirements by including the required instructions and documentation with the product and, if necessary, to provide further support to fulfil grantee responsibilities for ensuring compliance. The integrators must be fully informed of their obligations and verify the resolution of any issues and concerns with each transmitter manufacturer or grantee.

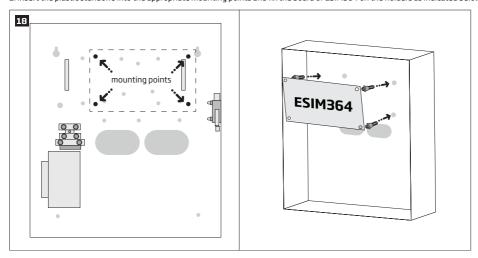
- The system can be installed in a metal or non-flammable cabinet only. For a convenient installation, ME1 metal cabinet is highly recommended. The metal cabinet must always be grounded as well as ESIM364 system's PCB by connecting one of the COM terminals to the PE contact of the metal cabinet.
- For the connection of 230V transformer, use 3x0.75 mm² 1 thread double isolated cable. 230V power supply cables must not be grouped with low voltage cable group.
- For the connection of auxiliary and BELL outputs, use 2x0.75 mm² 1 thread unshielded cable of up to 100m (328.08ft) length.
- For the connection of zone/PGM output connectors, use 0.50 mm² 1 thread unshielded cable of up to 100m (328.08ft) length.

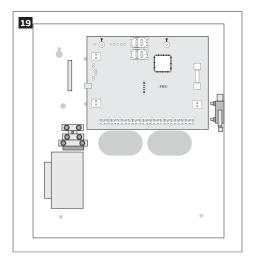
System Installation in ME1 Metal Cabinet

1. ME1 metal cabinet components

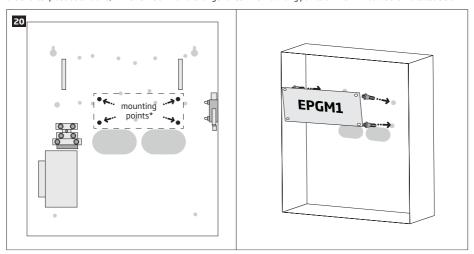


2. Insert the plastic standoffs into the appropriate mounting points and fix the board of ESIM364 on the holders as indicated below.

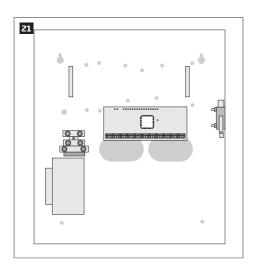


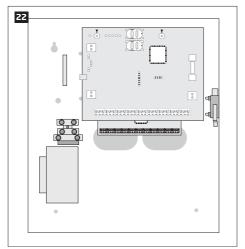


3. If EPGM1 module is to be installed, please install it in the first place and ESIM364 alarm system afterwards. EPGM1 must be mounted on the shorter plastic standoffs, while ESIM364 - on the longer ones. The mounting points of EPGM1 module are indicated below.

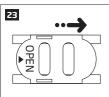


* The standard ME1 metal cabinet does NOT contain the mounting points intended for EPGM1 module mounting, therefore it will be necessary to drill out the mounting points by yourself.



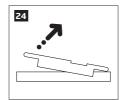


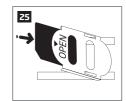
- 4. Wire up the accessories, such as keypads, zone and PGM output expansion modules, ELAN3-ALARM module, temperature sensors, according to the wiring diagrams. Install the buzzer closer to iButton key reader in order to hear the exit delay countdown (see **2.3 Wiring Diagrams for more details**).
- 5. Disable the PIN code of the SIM card by inserting it into a mobile phone and following the proper menu steps. Ensure that the additional services, such as **voice mail, call forwarding, report on missed/busy calls ("call catcher")** are disabled on the SIM card. For more details on how to disable these services, please contact your GSM operator.
- 6. Once the PIN code is disabled, place the SIM card into the SIM CARD1 slot of the alarm system. If Dual-SIM feature is to be used, insert another SIM card into the SIM CARD2 slot. For more details, please refer to **31. DUAL-SIM MANAGEMENT.**

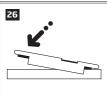


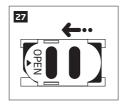


Inserting a SIM card into SIM CARD1 slot is mandatory as it is the main SIM card slot, while using a SIM card in SIM CARD2 slot is optional.

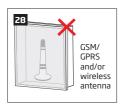






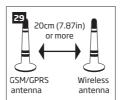


7. Connect the GSM/GPRS and wireless antennas and follow the recommendations for the installation:



Never install in the following locations:

- inside the metal cabinet
- closer than 20cm (7.87in) from the metal surface and/or power lines



Recommended installation:

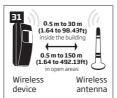
 keep the distance of at least 20cm (7.87in) or more.

8. If one or more wireless devices are to be paired, follow the recommendations for the installation to achieve the strongest wireless signal:



Never install in the following locations:

- inside the metal cabinet
- closer than 20cm (7.87in) from the metal surface and/or power lines



Recommended installation:

- face the front side of the wireless device towards the antenna
- keep the distance: 0,5 to 30m (1.64 to 98.43ft) inside the building, 0,5 to 150m (1.64 to 492.13ft) in open areas

For more details on how to install the wireless devices, please refer to **RADIO SYSTEM INSTALLATION AND SIGNAL PENETRATION** manual and the latest user manual of the wireless device located at www.eldes.lt/download

- 9. Power up the system and wait until indicator STAT lights up (see 2.2 Main Unit, LED Indicator and Connector Functionality).
- 10. Indicator STAT should be flashing indicating successful micro-controller operation.
- 11. The illuminated indicator NETW indicates that the system successfully registered to GSM network. To find the strongest GSM signal, place the GSM/GPRS antenna and follow the indications provided by NETW indicator (see 2.2 Main Unit, LED Indicator and Connector Functionality).
- 12. Change the default SMS password (see 6. SMS PASSWORD AND INSTALLER CODE for more details).
- 13. Set the phone number for User 1 (see **8. USER PHONE NUMBERS** for more details).
- 14. Set system date and time (see 9. DATE AND TIME for more details).
- 15. Once the system is fully configured, it is ready for use. However, if you fail to receive an SMS reply from the system, please check the SMSC (Short Message Service Center) phone number. For more details regarding the SMS centre phone number, please refer to 27.1. SMSC (Short Message Service Center) Phone Number.
- 16. If it is required to change the batteries for the wireless devices or carry out other system maintenance tasks, please activate the Service mode. For more detail regarding this mode, please refer to **33. SERVICE MODE.**

ATTENTION: The system is NOT compatible with pure 3G SIM cards. Only 2G/GSM SIM cards and 3G SIM cards with 2G/GSM profile enabled are supported. For more details, please contact your GSM operator.

NOTE: The installation of iButton key reader, EKB2/EKB3/EKB3W keypad, EWK1 wireless keyfob is not mandatory. However, it is recommended to have those devices installed as an emergency switch in case your mobile phone is switched off or missing.

NOTE: For maximum system reliability we recommend you do NOT use a Pay As You Go SIM card. Otherwise, in the event of insufficient credit balance on the SIM card, the system would fail to make a phone call or send messages.

NOTE: We advise you to choose the same GSM SIM provider for your system as for your mobile phone. This will ensure the fastest, most reliable SMS text message delivery service and phone call connection.

NOTE: Even though alarm system ESIM364 installation process is not too complicated, we still recommend to perform it by a person with basic knowledge in electrical engineering and electronics to avoid any system damage.

4.GENERAL OPERATIONAL DESCRIPTION

When the system is being armed, it will initiate the exit delay countdown intended for the user to leave the secured area. During the countdown period the buzzer will emit short beeps. By default, exit delay duration is 15 seconds. After the countdown is complete, the system will become armed and lock the configuration by keypad possibility. In case the user does not leave the secured area before the countdown is complete, the system will Stay-arm if at least 1 zone has Stay attribute enabled. By default, if there is at least 1 violated zone or tamper, the user will not be able to arm the system until the violated zone or tamper is restored. In case it is required to arm the alarm system despite the violated zone presence, the violated zone can be bypassed or Force attribute enabled.

After the system is armed and if a zone (depending on type) or tamper is violated, the system will cause an alarm lasting for 1 minute (by default), During the alarm, the siren/bell will provide an alarm sound along with the buzzers of the keypads. By default, the system will also makes a phone call and send an SMS text message containing the violated zone or tamper number to a listed user phone number and indicate the violated zone or tamper number on the keypad. If another zone or tamper is violated or the same one is restored and violated again during the alarm, the system will act as mentioned previously, but will not extend the alarm time.

After the user enters the secured area, the system will initiate the entry delay countdown intended for system disarming. During the countdown period, the buzzer will emit a steady beep. By default, entry delay duration is 15 seconds. After the user successfully performs the disarming process, the system will unlock the keypads. If the user does not disarm the system in time, the alarm system will cause an instant alarm.

NOTE: The alarm will be caused even if a tamper is violated while the system is disarmed.

For more details, please refer to 12, ARMING AND DISARMING.

5. CONFIGURATION METHODS



!!! In this installation manual the underscore character "_" represents one space character. Every underscore character must be replaced by a single space character. There must be no spaces or other unnecessary characters at the beginning and at the end of the SMS text message.



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following features:

All codes and passwords must consist of 6 digits.

 The system must prompt for master (see 10. MASTER AND USER CODES) and installer (see 6. SMS PASSWORD AND IN-STALLER CODE) codes when configuring the system by EKB2, EKB3, EKB3W keypad or ELDES Configuration Tool software.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3**

5.1. SMS Text Messages



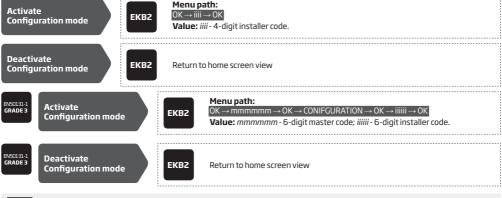
In order to configure and control the system by SMS text message, send the text command to the ESIM364 system phone number from one of the listed user phone numbers. The structure of SMS text message consists of 4-digit SMS password (the default SMS password is 0000 – four zeros), the parameter and value. For some parameters the value does not apply e.g. STATUS. The variables are indicated in lower-case letters, while a valid parameter value range is indicated in brackets.

NOTE: By default the SMS password is 0000, which is necessary to change. By activating 6-digit password/code format, it will be necessary to extend the SMS password by adding 2 extra digits using ELDES Configuration Tool software.

5.2. EKB2 LCD Keypad



The system configuration and control by EKB2 keypad is carried out by navigating throughout the menu section list displayed on LCD screen. To navigate in the menu path, touch ⊥, † keys to select the desired menu section and touch OK key to open the selected section. To enter a required value, use 0... 9 keys and touch OK key for confirmation or cancel/go one menu section back by touching ← key. The value can be typed in directly by touching 0... 9 keys while highlighting the desired menu section. EKB2 menu type is "circle", therefore when the last section in the menu list is selected, you will be brought back to the beginning of the list after touching the ↓ key. In this installation manual, the menu path is based on the EKB2 menu tree by starting at home screen view (see 32.1.1.2. Master and User Menu Tree and 32.1.1.3. Installer Menu Tree). The variables are provided in lower-case letters, while a valid parameter value range is provided in lower-case letters.



NOTE: By default, menu section CONFIGURATION is secured with installer code. The default installer code is 1470, while the default master code is 1111. By activating 6-digit password/code format, it will be necessary to extend the installer code, master code and user code by adding 2 extra digits using ELDES Configuration Tool software.

NOTE: The system can be configured using only one keypad at a time. Other connected keypads will be inactive while the menu section CONFIGURATION is opened. The inactive EKB2 keypads will display Xicon.

NOTE: The keypad will automatically exit the menu section CONFIGURATION and return to home screen view if 1 minute after the last key-touch expires.

5.3. EKB3/EKB3W LED Keypad



The system configuration and control by EKB3/EKB3W keypad is carried out by activating the Configuration mode using the installer code (by default - installer code is 1470) and entering a valid configuration command using the number keys [0]... [9], [#] key for confirmation and [*] key to clear the characters that have been entered. Alternatively, the user can wait for 10 seconds until the keypad buzzer will provide a long beep indicating that the entered characters have been cleared. When typing in the characters, the indication of each pressed key is provided by short beep of keypad buzzer and red indicators when the number keys [0]... [9] are being pressed. Some commands require [STAY], [BYPS], [INST] and [CODE] keys as well. The structure of a standard configuration command is a combination of digits. The commands, which do not require the Configuration mode being activated, are noted. The variables are provided in lower-case letters, while a valid parameter value range is provided in brackets.

NOTE: If you have accidentally typed in an unnecessary character, please press [*] key or wait for 10 seconds until the keypad buzzer will provide a long beep indicating that the typed in characters have been cleared.

NOTE for EKB3W: Even if Back-light Timeout has expired, the character will be considered as type in once the appropriate EKB3W key is pressed. For more details, please refer to 19.5.3. Wireless Communication, Sleep Mode and Back-light Timeout.

Activate/deactivate Configuration mode EKB3/ EKB3W Enter installer code:

[INST] iiii #

Value: iiii- 4-digit installer code.

Example: INST1470#

EN50131-1 GRADE 3

Activate Configuration mode



Enter installer and master codes:

[INST] iiiiii mmmmmm#

Value: iiiiii - 6-digit installer code; mmmmmm - 6-digit master code.

Example: INST147000111111#

EN50131-1 GRADE 3

Deactivate Configuration mode



Enter installer code:

[INST] iiiiii #

Value: iiiiii - 6-digit installer code. Example: INST147000#

The following table provides a list of EKB3/EKB3W indications, which are relevant during Configuration mode.

| Indication | Description |
|---------------------------|---|
| Indicator ARMED flashing | Configuration mode activated successfully. |
| Indicator SYSTEM flashing | Valid parameter is entered and waiting for valid value to be entered. |
| 1 long beep | Non-existing command or invalid parameter value entered. |
| 3 short beeps | Command entered successfully. |

NOTE: The default installer code is 1470, while the default master code is 1111. By activating 6-digit password/code format, it will be necessary to extend the installer code, master code and user code by adding 2 extra digits using *ELDES Configuration Tool* software.

NOTE: The system can be configured using only one keypad at a time. Other connected keypads will be inactive while the Configuration mode is activated.

NOTE: Configuration mode will automatically deactivate if 1 minute after the last key-stroke expires.

5.4. ELDES Configuration Tool Software



Software ELDES Configuration Tool is intended for ESIM364 alarm system configuration locally via USB port or remotely via GPRS network or Ethernet connection (ELAN3-ALARM device required). This software simplifies system configuration process by allowing to use a personal computer in the process. Before starting to use ELDES Configuration Tool software, please read the user guide provided in the software's HELP section.

5.4.1. Remote Connection

ATTENTION: The system will NOT transmit any data to monitoring station while configuring the system remotely via GPRS network or Ethernet connection. However, during the remote connection session, the data messages are queued up and transmitted to the monitoring station after the configuration session is over.

ATTENTION: When the Configuration mode is activated by EKB3/EKB3W keypad or when menu section CONFIGURATION is opened by the installer using EKB2 keypad, remote system configuration is disabled.

ATTENTION: The keypad (-s) become inactive while the system is being configured remotely.

ELDES Configuration Tool software provides remote system configuration ability via Internet using one of the following methods:

- ELDES proxy server (recommended). The connection can be established on the system via GPRS network or Ethernet using ELAN3-ALARM communicator.
- Running TCP/IP server on ELDES Configuration Tool (advanced). The connection can be established on the system via GPRS network or Ethernet using ELAN3-ALARM communicator.
- Direct connection via Ethernet using ELAN3-ALARM communicator.

In order to start using the remote configuration feature, please run the step-by-step wizard and follow the steps provided in the start page of *ELDES Configuration Tool* software. Please, note that based on the selected method, it might be necessary to send an SMS text message to the system's phone number in order to initiate the remote connection. By following the steps you will be instructed on what text must be sent to the system's phone number in such case.

5.4.2. Ending the Remote Connection Session

After the remote system configuration is complete, use one of the following methods to end the configuration process:

- Click **Disconnect** or **Stop** button and close *ELDES Configuration Tool* software.
- The session will automatically expire in 20 minutes. Before the last 5 minutes, the software will offer the user to extend the session for another 20 minutes.
- Alternatively, the connection with the server can be terminated at any time by sending an SMS text message.

Terminate the connection with server

SMS

SMS text message content:

ssss_ENDCONFIG

Value: ssss - 4-digit SMS password. Example: 1111_ENDCONFIG

Once the session is expired or terminated, the system will reply with an SMS text message confirming the end of the session.

6.SMS PASSWORD AND INSTALLER CODE

For security reasons, the system uses the following type of password and code:

SMS password - 4-digit password used for system arming/disarming and configuration by SMS text messages. By default, SMS password is 0000, which MUST be changed!. SMS password is authorized to carry out the following:

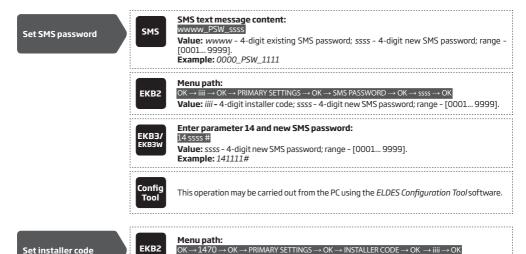
- Access system configuration by SMS text messages.
- Arm/disarm partition.
- Activate/deactivate service mode.
- Set system date and time.
- Add/remove user phone numbers.
- Set SMS password.
- Turn ON/OFF PGM outputs.
- Restart system remotely.

Installer code - 4-digit password used for system configuration by EKB2/EKB3/EKB3W keypad and ELDES Configuration Tool software. By default, installer code is 1470, which is highly recommended to change. Installer code is authorized to carry out the following:

· Access system configuration by keypad and ELDES Configuration Tool software.

EKB3/

- Set installer code.
- Set master code
- Activate/deactivate service mode.
- Set system date and time.
- Add/remove user phone numbers.
- Set SMS password.
- Restore system configuration to default.
- Clear tamper fault (if enabled).



Value: iii - 4-digit new installer code; range - [0000... 9999].

Value: iii - 4-digit new installer code; range - [0000... 9999].

MANUAL ELDES ESIM364 v1.8 EN 2:

Enter parameter 16 and new installer code:

Example: 162538#



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following features:

- · All codes and passwords must consist of 6 digits.
- The system must prompt for master (see 10. MASTER AND USER CODES) and installer (see 6. SMS PASSWORD AND IN-STALLER CODE) codes when configuring the system by EKB2, EKB3, EKB3W keypad or ELDES Configuration Tool software.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3.**

7. SYSTEM LANGUAGE

The system comes equipped with a single language for communication with the user by SMS text messages and EKB2 keypad menu display. The system language depends on ESIM364 firmware, which is based on the user's location.

List of currently available system languages (firmwares):

- Czech
- English
- Estonian
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Latvian
- Lithuanian • Polish
- Portuguese
- Romanian
- Russian Slovak
- Spanish

NOTE: To obtain a firmware that features a different SMS and EKB2 menu language, please contact your local dealer.

8.USER PHONE NUMBERS

The system supports up to 10 user phone numbers identified as User 1 through 10. When the phone number is set, the user will be able to arm/disarm the system by SMS text messages and free of charge phone calls (see 12.1. Free of Charge Phone Call and 12.2. SMS Text Message) as well as to configure the system by SMS text messages. User phone umbers are also used to receive alarm phone calls via GSM connection and SMS text messages from the system (see 17. ALARM INDICATIONS AND NOTIFICATIONS FOR USER).

By default, the system accepts incoming calls and SMS text messages from any phone number. Once a user phone number is listed, the system ignores any incoming calls and SMS text messages from a non-listed phone number as well as it rejects the SMS text messages containing wrong SMS password even from a listed user phone number (see **8.2. System Control from any Phone Number**).

To set User 1 phone number is mandatory, while the other 9 are optional. The supported phone number formats are the following:

- International (with plus) The phone numbers must be entered starting with plus and an international country code in the following format: +[international code][area code][local number], example for UK: +44170911XXXX1. This format can be used when setting up the phone number by SMS text message and ELDES Configuration Tool software.
- International (with 00) The phone numbers must be entered starting with 00 and an international country code in the following format: 00[international code][area code][local number], example for UK: 0044170911XXXX1. This format can be used when setting up the phone number by SMS text message, EKB2/EKB3/EKB3W keypad and ELDES Configuration Tool software.
- Local The phone numbers must be entered starting with an area code in the following format: [area code][local number], example
 for UK: 0170911XXXX1. This format can be used when setting up the phone number by SMS text message, EKB2/ EKB3/EKB3W
 keypad and ELDES Configuration Tool software.

Add user phone number



SMS text message content:

ssss_NRup:ttteeellnnuumm

Value: ssss - 4-digit SMS password; up - user phone number slot, range - [1...10]; ttteeellnnuumm - up to 15 digits user phone number. Example: 1111 NRI:+44170911XXXXI



Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → CALL/SMS SETTINGS → OK → USERS → OK → GSM USER 1... 10 → OK → PHONE NUMBER → OK → ttteeellnnuumm → OK

Value: iiii - 4-digit installer code; ttteeellnnuumm - up to 15 digits user phone number.



Enter parameter 17, user phone number slot and phone number:

17 up ttteeellnnuumm #

 $\begin{tabular}{ll} \textbf{Value:} up - user phone number slot, range - [01...10]; ttteeellnnuumm - up to 15 digits user phone number. \\ \end{tabular}$

Example: 17010044170911XXXX1#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

View user phone number



SMS text message content:

ssss_HELPNR

Value: ssss - 4-digit SMS password.

Example: 1111_HELPNR



Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → CALL/SMS SETTINGS → OK → USERS → OK → GSM USER 1... 10 → OK → PHONE NUMBER

Value: iiii - 4-digit installer code;



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Delete user phone number



Value: ssss - 4-digit SMS password; up - user phone number slot, range - [2... 10].

Example: 1111_NR2:DEL

ЕКВ2

Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → CALL/SMS SETTINGS → OK → USERS → OK – GSM USER 2…10 → OK → PHONE NUMBER → OK → OK

Value: iiii - 4-digit installer code;

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

ATTENTION: NEVER add a phone number of the device's SIM card as a user phone number!

ATTENTION: Once User 1 phone number is set, it will be restricted to modify it only.

NOTE: Multiple user phone numbers can be set by a single SMS text message,

Example: 1111_NR1:+44170911XXXX1_NR2:+44170911XXXX2_NR6:0170911XXXX3_NR10:+44170911XXXX4

NOTE: Multiple user phone numbers can be deleted by a single SMS text message, **Example:** 1111_NR2:DEL_NR3:DEL_NR6:DEL_NR9:DEL_NR:10:DEL

8.1. User Phone Number Names

When the system is armed or disarmed by free of charge phone call or SMS text message, the system sends a confirmation by SMS text message to user phone number that the system arming/disarming was initiated from. The SMS text message is sent regarding each partition separately and contains system status and partition name as well as it may contain a user name, set to the user phone number.

Manage user phone number name

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

8.2. System Control from any Phone Number

By default, once a user phone number is listed, the system ignores any incoming calls and SMS text messages from a non-listed phone number as well as it rejects the SMS text messages containing wrong SMS password even from a listed user phone number. To permit/deny system arming/disarming by phone call and SMS text message that contain a valid SMS password, configuration by SMS text message that contain a valid SMS password from any phone number, please refer to the following configuration methods.

Enable system control from any phone number

SMS text message content:
SMS SSSS_STR:ON

Value: ssss - 4-digit SMS password.

Example: 1111_STR:ON

Menu path: OK → iiii → 0

 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{PRIMARY} \ \mathsf{SETTINGS} o \mathsf{OK} o \mathsf{CALL/SMS} \ \mathsf{SETTINGS} o \mathsf{OK} o \mathsf{CTRL} \ \mathsf{FROM} \ \mathsf{ANY}$

NUM → OK → ENABLE → OK

Value: iiii - 4-digit installer code:

Enter parameter 12 and parameter status value:

EKB3/ EKB3W Example: 121#

This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: Due to security reasons it is HIGHLY UNRECOMMENDED to enable this feature.

Config

Tool

Disable system control from any phone number

SMS

SMS text message content:

ssss_STR:OFF

Value: ssss - 4-digit SMS password. Example: 1111_STR:OFF

EKB2

Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → CALL/SMS SETTINGS → OK → CTRL FROM ANY NUM → OK → DISABLE → OK

Value: iiii - 4-digit installer code;

EKB3/

Enter parameter 12 and parameter status value:

120#

Example: 120#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

9. DATE AND TIME

The system comes equipped with internal real-time clock (RTC) that keeps track of the current date and time. Once the system is up and running, the user must set the correct date and time, otherwise the system will not operate properly. By default, after shutting down and starting up the system, the date and time must be set again.

Set date and time

SMS

SMS text message content:

ssss yyyy.mt.dd hr:mn

Value: ssss - 4-digit SMS password; yyyy - year; mt - month, range - [01...12]; dd - day, range - [01...31]; hr - hours, range - [00...23]; mn - minutes, range - [00...59].

Example: 1111 2014.03.16 14:33

EKB2

Menu path:

a) $OK \rightarrow uumm \rightarrow OK \rightarrow DATE/TIME SETTINGS \rightarrow OK \rightarrow yyyy-mt-dd hr:mn \rightarrow OK$

b) OK \rightarrow iiii \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow DATE/TIME SETTINGS \rightarrow OK \rightarrow yyyy-mt-dd

Value: umm - 4-digit user/master code; yyyy - year; mt - month, range - [01...12]; dd - day, range - [01...12]; hr - hours, range - [00...23]; mr - minutes, range - [00...59]; iiii - 4-digit installer code.

EKB3/ EKB3W

Enter parameter 66, date and time:

66 yyyy mt dd hr mn#

Value: *yyyy* - year; *mt* - month, range - [01...12]; *dd* - day, range - [01...31]; *hr* - hours, range - [00...23]; *mn* - minutes, range - [00...59].

Example: 66201405291235#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: When the system is connected to the monitoring station via IP connection (see 30. MONITORING STATION) and/or when ELDES Cloud Services feature is in use (see 36. ELDES CLOUD SERVICES), the date and time will be automatically synchronized with the monitoring station or ELDES Cloud Services server upon the system startup.

9.1. Automatic Date and Time Synchronization

This feature enables the system to set the date and time automatically without the user being involved in this process. The system supports the following methods of automatic date and time synchronization that are used automatically on system start-up and periodically (by default - every 30 days):

- Via GSM network Once enabled, the system automatically sends a date/time request to the GSM operator. This method is the
 most accurate synchronization method. Some GSM operators might not support it.
- **By SMS text message** Once enabled, the system automatically sends the SMS text message to its own phone number and retrieves the date and time from the SMS text message reply, as the included date and time is set by the SMSC (SMS center). This method is not as accurate as the synchronization via GSM network, but always effective.

By default, synchronization via GSM network is disabled. To enable/disable automatic date and time synchronization via GSM network, please refer to the following configuration methods.

Enable/disable synchronization via GSM network



This operation may be carried out from the PC using the ELDES Configuration Tool software.

By default, synchronization by SMS text message is disabled. To enable/disable automatic date and time synchronization by SMS text message, please enter/remove device phone number using one of the following configuration methods.

Enter/remove device phone number for synchronization by SMS text message



This operation may be carried out from the PC using the ELDES Configuration Tool software.

10. MASTER AND USER CODES

NOTE for EKB3/EKB3W: The Configuration mode must remain deactivated before user and master code management using master code.

The system supports up to 30 numeric codes, identified as Master code and User code 2 through 30, allowing to carry out system arming/disarming as well as minor system configuration and control by the keypad.

Master code is authorized to carry out the following:

- Arm/disarm partition.
- Bypass violated zones.
- View violated zones and tampers.
- View system faults.
- Set system date and time.
- View temperature sensor information.
- View event log,
- View and clear alarm log,
- Set/delete user codes.
- Turn ON/OFF PGM outputs.
- Assign an existing user code as Duress code.
- Assign an existing user code as SGS code.

User code is authorized to carry out the following:

- Arm/disarm partition.
- Bypass violated zones.
- View violated zones and tampers.
- View system faults.
- Set system date and time.
- View temperature sensor information.
- View and clear alarm log.

By default, only Master code is listed as 1111 and assigned to Partition 1, 2, 3 and 4. For more details regarding User/Master code partition, please refer to 23.4. User/Master Code Partition.

Set master code



1enu path:

- a) $OK \rightarrow vvvv \rightarrow OK \rightarrow CODES \rightarrow OK \rightarrow MASTER CODE \rightarrow OK \rightarrow CODE \rightarrow OK \rightarrow mmmm \rightarrow OK$
- b) $OK \rightarrow iiii \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow MASTER CODE \rightarrow mmmm \rightarrow OK$

Value: vvvv - 4-digit existing master code, range - [0000... 9999]; iiii - 4-digit installer code; mmmm - 4-digit new master code, range - [0000... 9999].



a) Press [CODE], [0], enter existing master code and new master code:

[CODE] [0] vvvv 01 mmmm #

Value: vvvv - 4-digit existing master code; mmmm - 4-digit new master code; range - [0000... 9999].

Example: CODE01111012222#

b) Enter parameter 63, existing master code and new master code: 63 vvvv mmmm

Value: vvvv - 4-digit existing master code; mmmm - 4-digit new master code, range - [0000...9999].

Example: 6311112222#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set user code

Menu pat User code

User code 2... 16: OK → mmmm → OK → CODES → OK → USER CODE (2-16) → OK → USER CODE 2... 16 → OK → CODE → CODE

User code 17... 30: 0K → mmmm → 0K → CODES → 0K → USER CODE (17-30) → 0K → USER CODE 17... 30 → 0K → CODE → 0K → uuuu → 0K

Value: mmmm - 4-digit master code; uuuu - 4-digit user code, range - [0000... 9999].

EKB3/ EKB3W Press [CODE], [0], enter master code, user code slot and user code:

[CODE] [O] mmmm us uuuuu #

Value: mmmm - 4-digit master code; us - user code slot, range - [02... 30]; uuuu - 4-digit user code, range - [0000... 9999].

Example: *CODE01111092556#*

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Delete user code

Menu path: OK → mmmn

 $OK \rightarrow mmmm \rightarrow OK \rightarrow CODES \rightarrow OK \rightarrow REMOVE CODE \rightarrow OK \rightarrow uuuu \rightarrow OK$

Value: mmmm - 4-digit master code; uuuu - 4-digit user code.

EKB3/

Press [CODE], [0], enter master code and user code slot: [CODE] [0] mmmm us #

Value: mmmm - 4-digit master code; us - user code slot, range - [02... 30].

Example: CODE0111109#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: The system does not allow to set a duplicate code.

The user codes ranging from User code 2 through 10 can be set as SGS (Security Guard Service) code, which is used as a checkpoint by a security service guard upon his/her visit in the secured location. When used, a data message, containing a certain event code, will be delivered to the monitoring station. However, NO system arming or disarming will be carried out after entering the SGS code.

Set SGS code

Menu path: OK → mmmm

 $OK \rightarrow mmmm \rightarrow OK \rightarrow CODES \rightarrow OK \rightarrow SGS CODE \rightarrow OK \rightarrow N/A \mid USER CODE 2... 10 \rightarrow OK$

Value: mmmm - 4-digit master code; N/A - SGS code not in use.

EKB3/ EKB3W Press [CODE], [4], enter user code slot and enter master code:

[CODE] [4] us mmmm #

Value: us - user code slot, range - [02...10]; mmmm - 4-digit master code.

Example: *CODE4041111#*

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

The Duress code is used when system arming or disarming is demanded by force. When used, the system will arm/disarm as well as it will silently transmit an alert to the monitoring station. Only one of the user codes ranging from User code 2 through 10 can be set as Duress code.

Set Duress code

EKB2

Menu path:

 $OK \rightarrow mmmm \rightarrow OK \rightarrow CODES \rightarrow OK \rightarrow DURESS CODE \rightarrow OK \rightarrow N/A \mid USER CODE 2... 10 \rightarrow OK$

Value: mmmm - 4-digit master code; N/A - Duress code not in use.

EKB3/ EKB3W Press [CODE], [3], enter user code slot and master code:

[CODE] [3] us mmmm #

Value: us - user code slot, range - [02...10]; mmmm - 4-digit master code.

Example: CODE3081111#



This operation may be carried out from the PC using the ELDES Configuration Tool software.



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following features:

- All codes and passwords must consist of 6 digits.
- The system must prompt for master (see 10. MASTER AND USER CODES) and installer (see 6. SMS PASSWORD AND IN-STALLER CODE) codes when configuring the system by EKB2, EKB3, EKB3W keypad or ELDES Configuration Tool software.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3.**

10.1. Master and User Code Names

When the system is armed or disarmed by entering a master or user code using a keypad, the system sends a confirmation by SMS text message to user phone number, sharing the same partition (-s) as the keypad and user/master code. The SMS text message is sent regarding each partition separately and contains system status and partition name as well as it may contain a user name, set to the user/master code.

Manage user/master code name



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

11. IBUTTON KEYS

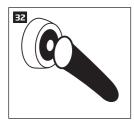
An iButton key is a unique 64-bit ID code containing chip enclosed in a stainless steel tab usually implemented in a small plastic holder. ESIM364 system supports up to 16 iButton keys each holding a unique identity code (ID), which is used for system arming and disarming.

11.1. Adding and Removing iButton Keys

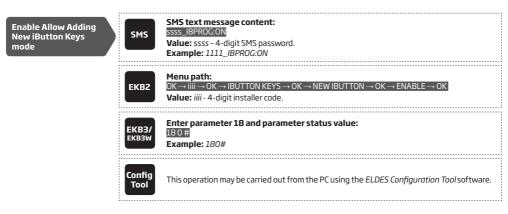
NOTE: iButton Key 1 can be added without Allow Adding New iButton Keys mode being enabled.

To add an iButton key to the system, do the following:

- a) Disarm the system in all partitions (see 12. ARMING AND DISARMING).
- b) Enable Allow Adding New iButton Keys mode.
- c) Touch the key to the iButton key reader when the system is disarmed.



- d) The successfully added iButton key will be indicated by short beeps emitted by the system's buzzer.
- e) Add as many iButton keys as necessary touch one key after another to the reader until the number of 16 keys is reached.



When adding of iButton keys is complete, please disable Allow Adding New iButton Keys mode.

Disable Allow Adding New iButton Keys mode SMS text message content: SMS SSSS_IBPROG:OFF

Value: ssss - 4-digit SMS password. **Example:** 1111_IBPROG:ON

Menu path: OK → iiii → 0

 $OK \rightarrow 1111 \rightarrow OK \rightarrow IBUTTON KEYS \rightarrow OK \rightarrow NEW IBUTTON \rightarrow OK \rightarrow DISABLE \rightarrow OK$

Value: iiii - 4-digit installer code.

Enter parameter 18 and parameter status value:

181#

Example: 181#

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

To view the ID of the added iButton keys, please refer to the following configuration methods.

View iButton key ID

Menu path:

 $\mathsf{OK} o \mathsf{IIII} o \mathsf{OK} o \mathsf{IBUTTON} \mathsf{KEYS} o \mathsf{OK} o \mathsf{IBUTTON} o \mathsf{OK} o \mathsf{IBUTTON} 1...16 o \mathsf{OK} o \mathsf{ID}$

Value: iiii - 4-digit installer code.

Config Tool

This operation may be carried out from the PC using the \textit{ELDES Configuration Tool} software.

If the iButton key is lost or stolen, due to security reasons it is highly recommended to remove it from the system.

Remove individual iButton key from the system

Menu path: OK → iiii →

OK ightarrow iiii ightarrow OK ightarrow IBUTTON KEYS ightarrow OK ightarrow IBUTTON 1...16 ightarrow OK ightarrow

 $\overline{REMOVE} \rightarrow \overline{OK}$

Value: iiii - 4-digit installer code

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Remove all iButton keys from the system

SMS

SMS text message content:

ssss_RESETIB

Value: ssss – 4-digit SMS password.

Example: 1111_RESETIB

11.2. iButton Key Names

When the system is armed or disarmed by iButton key, the system sends a confirmation by SMS text message to listed user phone number, sharing the same partition (-s) as the key. The SMS text message is sent regarding each partition separately and contains system status and partition name as well as it may contain a user name, set to the iButton key.

Manage iButton key name

Config Tool

 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

12. ARMING AND DISARMING

The system features the following methods to carry out arming and disarming process:

- · Free of charge phone call.
- SMS text message.
- EKB2/EKB3/EKB3W keypad and user/master code.
- iButton key.
- EWK1/EWK2/EWK2A wireless kevfob.
- · Arm-Disarm by Zone.
- EGR100 middle-ware.
- ELDES Cloud Services platform

The system arms/disarms the partitions the listed user phone number, EKB2/EKB3/EKB3W keypad and user/master code, iButton key, EWK1/EWK2/EWK2A wireless keyfob or zone, set up for Arm-Disarm by Zone method, are assigned to. For example, if User 1 phone number is assigned to Partition 1, 2 and 4, the user will be able to arm/disarm Partition 1, 2 and 4 by a single phone call to the system (see 23. PARTITIONS).

By default, when the system is successfully armed or disarmed, it replies with confirmation by SMS text message. For more details on SMS text message regarding system arming/disarming and how to manage it, please refer to 12.9. Disabling and Enabling Arm/Disarm Notifications.

By default, it is allowed to arm the system while the following system faults are present (see 29. INDICATION OF SYSTEM FAULTS):

- Mains power is lost.
- Low battery.
- Battery dead or missing.
- · Battery failed.
- Siren failed.
- Date/time not set.
- GSM connection failed.
- GSM/GPRS antenna failed.
 Wireless antenna failed.
- Keypad lost.

NOTE: When the system is configured to operate in accordance with EN 50131-1 Grade 3 requirements, the aforementioned system faults, including tamper alarm, will prevent the system from arming when present.

In case of violated zone/tamper presence when attempting to arm the system by free of charge phone call, SMS text message, iButton key and Arm-Disarm by Zone method, the system will reply with SMS text message containing violated zone/tamper number. Due to security reasons it is highly recommended to restore the violated zone/tamper before arming the system. For more details on how to arm the system regardless of the violated zone or tamper presence, please refer to 14.6. Zone Attributes, 14.7. Bypassing and Activating Zones and 16.TAMPERS respectively.

The system ignores any incoming calls and SMS text messages from a non-listed phone number as well as it rejects the SMS text messages containing wrong SMS password even from a listed user phone number. For more details regarding arming/disarming the system from a non-listed phone number, please refer to 8.2. System Control from any Phone Number.

NOTE: The system remembers the last status (armed/disarmed) of all partitions even after complete shut down.



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following feature:

- System arming is blocked if any system fault exists. The user will not be able to arm the system until all existing system faults are solved.
- System arming is blocked until tamper fault is cleared by the installer.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3.**

12.1. Free of Charge Phone Call



To arm, disarm the system and turn OFF the alarm, dial the system's phone number from any of 10 available user phone numbers (see **B. USER PHONE NUMBERS** for user phone number management). The phone call is free charge as the system rejects the and carries out arming/disarming procedure afterwards. When arming - the system rejects the phone call after 2 rings, when disarming - the system rejects the phone call immediately. If there is more than one listed user dialling to the system at the same time, the system will accept the incoming call from the user who was the first to dial while other user (-s) will be ignored.

When system's phone number is dialled for arming, the system will proceed as follows:

Non-partitioned system:

- If ready (no violated zone/tamper), the system will arm.
- If unready (violated zone/tamper is present), the system will not arm and provide a list of violated zones/tampers by SMS text
 message to user phone number. In such case the user must restore all violated zones and tampers before arming the system.
 Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling
 and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers can
 be disabled (see 16. TAMPERS).

· Partitioned system:

- · If all partitions are disarmed ready, the system will arm them.
- If one or more partitions are disarmed unready (violated zone/tamper is present), the system will arm the ready partition (-s) and
 skip the unready one (-s). The system will then send an SMS text message, containing a list of violated zones/tampers, to user
 phone number that the system arming was initiated from.
- If a combination of armed and disarmed ready partitions is present, the system will arm the disarmed ready partitions and skip
 the armed ones.

When a user phone number is assigned to multiple partitions, the user will be able arm/disarm the corresponding system partitions by dialling the system's phone number. For example, if User 1 is assigned to Partition 1, 2 and 3, the user will be able to arm/disarm Partition 1, 2 and 3 by a single phone call to the system from User 1 phone number. For more details on how to set user phone number partition, please refer to 23.2. User Phone Number Partition.



By default, all listed user phone numbers are granted with permission to arm and disarm the system by free of charge phone call and SMS text message. To disable/enable arming or disarming for certain listed user phone numbers, please refer to the following configuration method.

Manage arming and disarming for listed user phone numbers



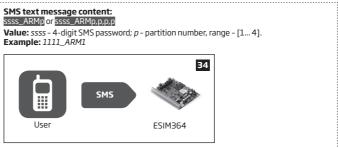
This operation may be carried out from the PC using the ELDES Configuration Tool software.

12.2. SMS Text Message



To arm the system by SMS text message, send the following text to the system's phone number from any of 10 available user phone numbers (see **8. USER PHONE NUMBERS** for user phone number management).

Arm the system



When the SMS text message for arming is sent to the system's phone number, the system will proceed as follows:

Non-partitioned system:

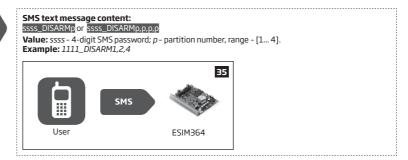
- If ready (no violated zone/tamper), the system will arm.
- If unready, the system will not arm and provide a list of violated zones/tampers by SMS text message to user phone
 number. In such case the user must restore all violated zones and tampers before arming the system. Alternatively, the
 violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling and
 Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers
 can be disabled (see 16. TAMPERS).

Partitioned system:

- If all partitions are disarmed ready (no violated zone/tamper), the system will arm them.
- If one or more partitions are disarmed unready (violated zone/tamper is present), the system will arm the ready partition (-s) and skip the unready one (-s). The system will then send an SMS text message, containing a list of violated zones/tampers, to user phone number that the system arming was initiated from.
- If a combination of armed and disarmed ready partitions is present, the system will arm the disarmed ready partitions and skip the armed ones.

To disarm the system and turn OFF the alarm by SMS text message, send the following text to the system's phone number from any of 10 available user phone numbers:

Disarm the system and turn OFF the alarm



When a user phone number is assigned to multiple partitions, the user will be able arm/disarm the corresponding system partitions by sending the SMS text message to the system's phone number. For example, if User 3 is assigned to Partition 2 and 3, the user will be able to arm/disarm Partition 2 and/or 3 by sending an SMS text message from User 3 phone number. For more details on how to set user phone number partition, please refer to 23.2. User Phone Number Partition.

By default, all listed user phone numbers are granted with permission to arm and disarm the system by free of charge phone call and SMS text message. To disable/enable arming or disarming for certain listed user phone numbers, please refer to the following configuration method.

Manage arming and disarming for listed user phone numbers



This operation may be carried out from the PC using the ELDES Configuration Tool software.

12.3. EKB2 Keypad and User/Master Code

✓ _icon displayed next to the partition name in the home screen view of EKB2 keypad indicates that no violated zones and/or tampers are present, therefore the partition is ready for arming. If X icon is displayed instead, the partition is unready for arming, therefore the user must restore all violated zones and/or tampers before arming the partition. Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers can be disabled (see 16. TAMPERS). [Y] icon appears in the home screen view if system fault (-s) exist (see 29. INDICATION OF SYSTEM FAULTS).

When a user/master code is assigned to multiple partitions, the user will be able arm/disarm the corresponding system partitions by EKB2 keypad using partition selection menu. However, if a user/master code is assigned to Partition 1, 2 and 4, while EKB2 keypad is assigned to Partition 2, the user will be able to arm/disarm Partition 1, 2 and 4, but the keypad will only display Partition 2 name and the related information in home screen view. For more details on how to set keypad partition and user/master code partition, please refer to 23.3. Keypad Partition and Keypad Partition Switch and 23.4. User/ Master Code Partition respectively.

12.3.1. Arming the System

To arm the system by EKB2 keypad, enter any out of 29 available 4-digit user codes or master code using the number keys on the keypad (see **10. MASTER AND USER CODES** for user/master code management). By default, the arming process is as follows:

Non-partitioned system - When a valid user code is entered, the system will initiate exit delay, the keypad's buzzer will emit short

beeps, the keypad will switch to home screen view and display the countdown timer.

Arm the system

Enter user/master code:

 $uumm \rightarrow OK$

Value: *uumm* - 4-digit user/master code.

Arm the system

Enter user/master code and select partition:

uumm \to OK \to [p] part-name \to OK or OK \to uumm \to OK \to ARM/DIS PARTITION \to OK \to [p] part-name \to OK

Value: *uumm* – 4-digit user/master code; *p* – partition number, range – [1... 4], *part-name* – up to 15 characters partition name

- Partitioned system arming multiple partitions simultaneously When a valid user or master code is entered, the keypad will
 display the partition selection menu. Once ARM ALL menu item is selected the system will proceed as follows:
 - if all partitions are disarmed-ready (no violated zone/tamper), the system will initiate exit delay. During the exit delay, the keypad's
 buzzer will emit short beeps and the keypad will display multiple ARMING part-name messages for 3 seconds reflecting each
 partition the user/master code is assigned to, followed by partition selection menu.
 - if one or more partitions are disarmed unready (contains violated zone/tamper), the system will initiate exit delay. During the exit
 delay, the keypad's buzzer will emit short beeps and the keypad will display ARMING part-name message (-s) reflecting ready
 partition (-s), while the unready partition (-s) will be skipped indicated by part-name NOT READY message (-s) followed by
 partition selection menu. Each message will be displayed for 2 seconds and corresponds to the partition (-s) the user/master code
 is assigned to.
 - if a combination of armed and disarmed-ready partitions exist, the system will initiate exit delay. During the exit delay, the keypad's
 buzzer will emit short beeps and the keypad will display ARMING part-name message (-s) seconds reflecting ready partition (-s),
 while the pre-armed partition (-s) will be skipped. Each message will be displayed for 2 seconds and corresponds to the partition
 (-s) the user/master code is assigned to.

When the keypad back-light timeout expires, the home screen view will follow. If key is touched twice during exit delay, the keypad will return to home screen view and display the countdown timers next to the partition names the keypad is assigned to.

Arm all partitions simultaneously

Enter user/master code:

uumm \rightarrow OK \rightarrow ARM ALL \rightarrow OK or OK \rightarrow uumm \rightarrow OK \rightarrow ARM/DIS PARTITION \rightarrow OK \rightarrow ARM ALL \rightarrow OK

Value: uumm - 4-digit user/master code.

When successfully armed:

- the countdown timers will disappear.
- in addition, the keypad may display A icon next to the partition name that has been armed (by default disabled).

Enable/disable Show ARMED status in keypad



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes and the keypad will display **KEYPAD BLOCKED** message. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired and display **KEYPAD UNBLOCKED** message

12.3.2. Cancelling System Arming

To cancel the arming process:

- Non-partitioned system Enter the user/master code again during exit delay countdown.
- Partitioned system Select the partition again, that is currently being armed, from the partition selection menu during exit delay
 countdown. The keypad will display part-name ARMING TERMINATED message for 2 seconds followed by partition selection menu.

12.3.3. Disarming the System and Turning OFF the Alarm

To disarm and turn OFF the alarm, enter any out of 29 available 4-digit user codes or master code using the number keys on the keypad. By default, the system disarming process is as follows:

• Non-partitioned system - When a valid user or master code is entered, the keypad will switch to home screen view.

Disarm the system and turn OFF the alarm

Enter user/master code:

 $uumm \rightarrow OK$

Value: uumm - 4-digit user/master code.

Partitioned system - disarming a single partition - When a valid user or master code is entered, the keypad will display the
partition selection menu. Once a partition that is to be disarmed is selected, the keypad will display part-name DISARMED message
for 2 seconds and return to partition selection menu followed by home screen view after the keypad back-light timeout expires.
Alternatively, the key may be touched in order to instantly return to home screen view.

Disarm the system and turn OFF the alarm

Enter user/master code and select partition:

uumm → OK → [p] part-name → OK or OK → uumm → OK → ARM/DIS PARTITION → OK → [p] part-name → OK

Value: uumm - 4-digit user/master code; p - partition number, range - [1...4], part-name - up to 15 characters partition name

Partitioned system; disarming multiple partitions simultaneously - When a valid user or master code is entered, the keypad will
display the partition selection menu. Once DISARM ALL menu item is selected, the keypad will display multiple part-name DISARMED
messages for 2 seconds reflecting each partition the user/master code is assigned to and return to partition selection menu followed
by home screen view after the keypad back-light timeout expires. Alternatively, the key may be touched in order to instantly return
to home screen view.

Disarm all partitions and turn OFF the alarm simultaneously

Enter user/master code:

uumm → OK → DISARM ALL → OK or OK → uumm → OK → ARM/DIS PARTITION → OK → DISARM ALL → OK **Value:** uumm − **4**-digit user/master code.

When successfully disarmed, the keypad may display on ext to the partition name that has been disarmed (by default - disabled).

Enable/disable Show ARMED status in keypad



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes and the keypad will display **KEYPAD BLOCKED** message. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired and display **KEYPAD UNBLOCKED** message.

12.4. EKB3 Keypad and User/Master Code

ATTENTION: EKB3 keypad can operate either in 2-partition or in 4-partition mode. The description of the following procedure is based on 4-partition mode operation on EKB3 keypad. The arming/disarming procedure in 2-partition mode using EKB3 keypad would be carried out identically to EKB3W wireless keypad. For more details on 2-partition mode, please refer to **12.5. EKB3W Keypad and User/Master Code.**

Illuminated indicator READY on EKB3 keypad indicates that no violated zones and/or tampers are present, therefore the partition is ready for arming. If the indicator READY is not illuminated, the partition is unready for arming, therefore the user must restore all violated zones and/or tampers before arming the partition. Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers can be disabled (see 16. TAMPERS). Indicator SYSTEM will illuminate or flash if system fault (-s) exist (see 29. INDICATION OF SYSTEM FAULTS).

The system will arm/disarm the partition corresponding to the one that user/master code and the keypad are assigned to. For example, if User code 4 is assigned to Partition 2, 3 and 4, while EKB3 keypad is assigned to Partition 2, the user will be able to arm/disarm only Partition 2 by entering User code 4. For more details on how to set keypad partition and user/master code partition, please refer to 23.3. Keypad Partition and Keypad Partition and System Partition and System Partition Parti

12.4.1. Arming the System

To arm the system by EKB3 keypad, enter any out of 29 available 4-digit user codes or master code using the number keys on the keypad (see **10. MASTER AND USER CODES** for user/master code management). By default, the arming process is as follows:

 Non-partitioned system - When a valid user/master code is entered, the system will initiate exit delay, the keypad's buzzer will emit short beeps and the indicator ARMED along with the number [1] key will light ON. When the system is successfully armed, the keypad's buzzer will silent down.

Arm the system

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code.

Example: 2222

 Partitioned system - arming a single partition - To arm a different partition than the keypad is assigned to, use keypad partition switch feature (by default - disabled; see 23.3. Keypad Partition and Keypad Partition Switch) before the arming process.

Switch keypad partition Hold the [1]... [4] key and release it after 3 short beeps:

Value: [1]... [4] key - partition number 1... 4 respectively.

Once the partition is switched and a valid user/master code is entered, the system will initiate exit delay, the keypad's buzzer will emit short beeps and the indicator ARMED along with the number [1]... [4] key, indicating the partition that is to be armed, will light ON. When the system is successfully armed, the keypad's buzzer will silent down.

Arm the system

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code.

Example: 2222

- Partitioned system arming all 4 partitions simultaneously If a user/master code assigned to all 4 partitions exists, user can
 arm all partitions simultaneously. When this feature is used, the system will proceed as follows:
 - if all partitions are disarmed-ready (no violated zone/tamper), the system will initiate exit delay. During the exit delay, the keypad's buzzer will emit short beeps and indicator ARMED along with number [1], [2], [3] and [4] keys will light ON. When the system is successfully armed, the keypad's buzzer will silent down.
 - if one or more partitions are disarmed unready (keypad number [1]... [4] key flashing, indicating the partition that contains violated zone/tamper), the system will initiate exit delay. During the exit delay, the keypad's buzzer will emit short beeps and keypad indicator ARMED (if the keypad is switched to a non-violated partition) along with the number [1]... [4] key, indicating the partition that is to be armed, will light ON. The ready partition (-s) will be armed and the unready one (-s) will be skipped.
 - If a combination of armed and disarmed ready partitions is present, the system will initiate exit delay. During the exit delay, the
 keypad's buzzer will emit short beeps and keypad indicator ARMED (if the keypad is switched to a disarmed partition) along with the
 number [1]... [4] key, indicating the partition that is to be armed, will light ON. The disarmed-ready partitions will be armed and the
 pre-armed ones will be skipped.

Arm all 4 partitions simultaneously Hold the [0] key, release it after 3 short beeps and enter user/ master code:

0 uumm

Value: uumm - 4-digit user/master code.

Example: 0.2222

Alternatively, the user can arm multiple partitions one by one (see **Partitioned system - arming a single partition** above).

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired/

NOTE: Before arming all 4 partitions simultaneously, the user/master code must be assigned to all 4 partitions and the keypad partition switch feature enabled (see 23.3. Keypad Partition and Keypad Partition Switch).

12.4.2. Cancelling System Arming

To cancel the arming process, enter the user/master code again during exit delay countdown.

12.4.3. Disarming the System and Turning OFF the Alarm

To disarm and turn OFF the alarm, enter any out of 29 available 4-digit user codes or master code using the number keys on the keypad. By default, the system disarming process is as follows:

• Non-partitioned system - When a valid user/ master code is entered, indicator ARMED and the number [1] key will light OFF.

Disarm the system and turn OFF the alarm

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code

Example: 2222

 Partitioned system - disarming a single partition - To disarm a different partition than the keypad is assigned to, use keypad partition switch feature (by default - disabled; see 23.3. Keypad Partition and Keypad Partition Switch) before the disarming process. Switch keypad partition

Hold the [1]... [4] key and release it after 3 short beeps:

Value: [1]... [4] key - partition number 1... 4 respectively.

Once the partition is switched and a valid user/master code is entered, indicator ARMED and the number [1]... [4] key, indicating the partition that has been disarmed, will light OFF.

Disarm the system and turn OFF the alarm

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code.

Example: 2222

- Partitioned system disarming all 4 partitions simultaneously If a user/master code assigned to all 4 partitions exists, user can
 disarm and turn OFF the alarm in all partitions simultaneously. When this feature is used, the system will proceed as follows:
 - if all partitions are armed and a valid user/master code is entered, indicator ARMED along with the number [1], [2], [3] and [4] keys will light OFF.
 - if a combination of armed and disarmed ready partitions is present, the system will initiate exit delay. During the exit delay, the
 keypad's buzzer will emit short beeps and keypad indicator ARMED (if the keypad is switched to a disarmed partition) along with the
 number [1]... [4] key, indicating the partition that is to be armed, will light ON. The disarmed-ready partitions will be armed and the
 pre-armed ones will be skipped.
 - if one or more partitions are disarmed unready (keypad number [1]... [4] key flashing, indicating the partition that contains violated zone/tamper), the system will deny simultaneous partition disarming until the partition's zone/tamper violation is removed.

Disarm and turn OFF the alarm in all 4 partitions simultaneously Hold the [0] key, release it after 3 short beeps and enter user/ master code:

Value: uumm - 4-digit user/master code.

Example: 02222

Alternatively, the user can disarm and turn OFF the alarm in multiple partitions one by one (see **Partitioned system - disarming a single partition** above).

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired/

NOTE: Before disarming all 4 partitions simultaneously, the user/master code must be assigned to all 4 partitions and the keypad partition switch feature enabled (see 23.3. Keypad Partition and Keypad Partition Switch).

12.5. EKB3W Keypad and User/Master Code

ATTENTION: The user will be able arm/disarm only the first two system partitions using EKB3W keypad. Partition 3 and Partition 4 are NOT supported by EKB3W keypad.

Illuminated indicator READY on EKB3W keypad indicates that no violated zones and/or tampers are present, therefore the partition is ready for arming. If the indicator READY is not illuminated, the partition is unready for arming, therefore the user must restore all violated zones and/or tampers before arming the partition. Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers can be disabled (see 16. TAMPERS). Indicator SYSTEM will illuminate or flash if system fault (-s) exist (see 29. INDICATION OF SYSTEM FAULTS).

The system will arm/disarm the partition corresponding to the one that user/master code and the keypad are assigned to. For example, if User code 4 is assigned to Partition 2, while EKB3W keypad is assigned to Partition 1, the user will be able to arm/disarm only Partition 2 by entering User code 4. For more details on how to set keypad partition and user/master code partition, please refer to 23.3. Keypad Partition and Keypad Partition Switch and 23.4. User/ Master Code Partition respectively.

12.5.1. Arming the System

 Non-partitioned system - When a valid user/master code is entered, the system will initiate exit delay, the keypad's buzzer will emit short beeps and the indicator ARMED will light ON. When the system is successfully armed, the keypad's buzzer will silent down.

Arm the system

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code.

Example: 2222

 Partitioned system - arming a single partition - To arm a different partition than the keypad is assigned to, use keypad partition switch feature (by default - disabled; see 23.3. Keypad Partition and Keypad Partition Switch) before the arming process.

Switch keypad partition

Hold the [1]... [2] key and release it after 3 short beeps:

Value: [1]... [2] key - partition number 1... 2 respectively.

Once the partition is switched, indicator READY will light ON in EKB3W keypad's section A (= Partition 1) or B (= Partition 2) and a by entering a valid user/master code, the system will initiate exit delay, the keypad's buzzer will emit short beeps and the indicator ARMED will light ON in the respective EKB3W keypad's section. When the system is successfully armed, the keypad's buzzer will silent down.

Arm the system

Enter user/master code:

uumm

Value: uumm - 4-digit user/master code.

Example: 2222

To arm multiple partitions, please arm the partitions one by one by following the aforementioned procedure.

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired/

12.5.2. Cancelling System Arming

To cancel the arming process, enter the user/master code again during exit delay countdown.

12.5.3. Disarming the System and Turning OFF the Alarm

To disarm and turn OFF the alarm, enter any out of 29 available 4-digit user codes or master code using the number keys on the keypad. By default, the system disarming process is as follows:

• Non-partitioned system - When a valid user/ master code is entered, indicator ARMED will light OFF.

Disarm the system and turn OFF the alarm

Enter user/master code:

umm

Value: uumm - 4-digit user/master code.

Example: 2222

Partitioned system - disarming a single partition - To disarm and turn OFF the alarm in a different partition than the keypad is
assigned to, use keypad partition switch feature (by default - disabled; see 23.3. Keypad Partition and Keypad Partition Switch)
before the disarming process.

Switch keypad partition Hold the [1]... [2] key and release it after 3 short beeps:

Value: [1]... [2] key - partition number 1... 2 respectively.

Once the partition is switched, indicator READY will light ON in EKB3W keypad's section A (= Partition 1) or B (= Partition 2) and a by entering a valid user/master code, indicator ARMED will light OFF.

Disarm the system and turn OFF the alarm

Enter user/master code:

Jumm

Value: uumm - 4-digit user/master code.

Example: 2222

To disarm and turn OFF the alarm in multiple partitions, please disarm the partitions one by one by following the aforementioned procedure.

NOTE: If the user fails to enter a correct user/master code 10 times in a row, the system will block the keypad for 2 minutes. While the keypad is blocked, the system prevents from entering any user/master code. The keypad will automatically unblock once the 2-minute time has expired/

12.6. iButton Key



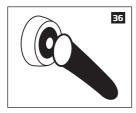
To arm or disarm the system and turn OFF the alarm, touch the iButton key reader by any of 16 available iButton keys (see **11. iBUTTON KEYS** for iButton key management). When the iButton is touched to the iButton key reader for arming, the system will proceed as follows:

Non-partitioned system:

- · If ready (no violated zone/tamper), the system will initiate exit delay and arm.
- If unready, the system will not arm and provide a list of violated zones/tampers by SMS text message to user phone number. In such case the user must restore all violated zones and tampers before arming the system. Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see 14.9. Disabling and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes), while the tampers can be disabled (see 16. TAMPERS).

Partitioned system:

- If all partitions are disarmed ready (no violated zone/tamper), the system will initiate exit delay and arm them.
- If one or more partitions are disarmed unready (violated zone/tamper is present), the system will arm the ready partition
 (-s) and skip the unready one (-s).
- If a combination of armed and disarmed ready partitions is present, the system will initiate exit delay, arm the disarmed ready partitions and skip the armed ones.



When an iButton key is assigned to multiple partitions, the user will be able to arm/disarm the corresponding system partitions by touching the iButton key to the reader. For example, if iButton 5 is assigned to Partition 1 and 4, the user will be able to arm/disarm Partition 1 and 4 by touching iButton 5 to the reader. For more details on how to set iButton key partition, please refer to 23.5. iButton Key Partition.

12.7. EWK1/EWK2 Wireless Keyfob



Non-partitioned system:

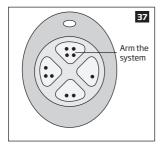
To arm the system, press 1 of 4 keyfob buttons set to arm the system (by default, EWK1 - ; EWK 2 -). When EWK1/EWK2 button is pressed for arming, the system will proceed as follows:

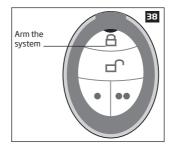
- If ready (no violated zone/tamper), the system will arm.
- If unready, the system will not arm. In such case the user must restore all violated zones and tampers before arming the
 system. Alternatively, the violated zones can be bypassed (see 14.7. Bypassing and Activating Zones), disabled (see
 14.9. Disabling and Enabling Zones) or a Force attribute enabled (resulting in partial arm; see 14.6. Zone Attributes),
 while the tampers can be disabled (see 16. TAMPERS).

Partitioned system:

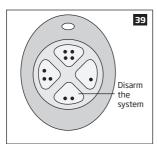
To arm the system, press 1 of 4 keyfob buttons with Partition Selection action assigned followed by a button with Arm the System action assigned (by default, EWK1 - EWK1 - WK1 - WK1/EWK2 button is pressed for arming, the system will proceed as follows:

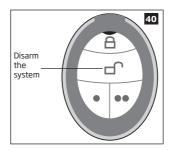
- If all partitions are disarmed ready (no violated zone/tamper), the system will arm them.
- If one or more partitions are disarmed unready (violated zone/tamper is present), the system will arm the ready partition
 (-s) and skip the unready one (-s).
- If a combination of armed and disarmed ready partitions is present, the system will arm the disarmed ready partitions and skip the armed ones.





To disarm the system, press 1 of 4 keyfob buttons set to disarm the system (by default, EWK1 - ••); EWK2 - — 1).





To verify if the system has been successfully armed, do not release the Arm the System keyfob button and wait for the 3 short keyfob buzzer's beeps/indicator's flashes indicating the successfully carried out command. The long beep/flash indicates the unsuccessful command.

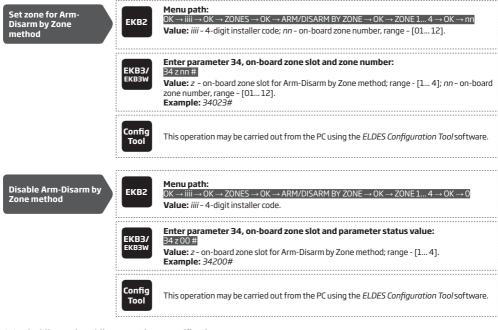
When a certain keyfob's button is assigned to multiple partitions, the user will be able to arm/disarm the corresponding system partition (-s) assigned to the button with Partition Selection action followed by a button with Arm the System/Disarm the System action. For more details on how to set the keyfob partition, please refer to ELDES Configuration Toolsoftware's HELP section.

NOTE: Single EWK1/EWK2 keyfob button can be configured to carry out Partition Selection and Control Output/Output Toggle/Output Pulse actions. In such case the PGM output control action will be executed with a 3-second delay once the button is pressed and in case it is not followed within a 3-second period by a button with Arm the System or Disarm the System action assigned.

12.8. Arm-Disarm by Zone



The Arm-Disarm by Zone feature allows to use a zone for arming and disarming the alarm system. The process is performed by applying a low-level pulse for more than 3 seconds to the specified zone. It means that violating and restoring the zone leads to system arming and by repeating this action the system becomes disarmed. The system will arm/disarm the partition (-s) that the zone is assigned to. Up to 4 on-board zones can be set to arm/disarm up to 4 system partitions by this method.



12.9. Disabling and Enabling Arm/Disarm Notifications

By default, when the system is successfully armed or disarmed, it replies with confirmation by SMS text message to:

- user phone number, sharing the same partition as EKB2/EKB3/EKB3W keypad and user/master code, iButton key, EWK1/EWK2 wireless keyfob or zone, set up for Arm/Disarm by Zone method.
- user phone number that the system arming/disarming by free of charge phone call was initiated from.
- user phone number that the system arming/disarming by SMS text message was initiated from.

The confirmation SMS text message is sent to the user phone number regarding each partition separately and contains system status and partition name as well as it may contain a user name assigned to user phone number, user/master code or iButton key. For more details on names, please refer to 8.1. User Phone Number Names, 10.1. User/Master Code Names and 11.2. iButton Key Names.

To disable/enable this notification for individual user phone number, please refer to the following configuration methods.

Menu path: Disable arm/disarm System armed: EKB2 notification User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS$ MESSAGES $1 \rightarrow OK \rightarrow SYS$ ARMED EVENT $\rightarrow OK \rightarrow SYS$ $\overline{\mathsf{GSM}}\,\overline{\mathsf{USER}\,1...\,10} \to \mathsf{OK} \to \mathsf{DISABLE} \to \mathsf{OK}$ SMS text message to all users simultaneously: ... \rightarrow SYS ARMED EVENT \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK SMS delivery report: ... \rightarrow SYS ARMED EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK System disarmed: User phone number: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE SMS text message to all users simultaneously: ... → SYS DISARMED EVENT $ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK$ SMS delivery report: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow SMS REPORT Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

System armed event

User phone number: 25 01 up 0 #

SMS text message to all users simultaneously: 21 01 0 #

SMS delivery report: 55 01 0 #

System disarmed event

User phone number: 25 02 up 0 #

SMS text message to all users simultaneously: 21 02 0 #

SMS delivery report: 55 02 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2502040#



EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable arm/disarm notification

Menu path:

 \rightarrow OK

System armed:

User phone number: OK → iiii → OK → SMS MESSAGES 1 → OK → SYS ARMED EVENT → OK → GSM USER 1... 10 → OK → ENABLE → OK

SMS text message to all users simultaneously: ... \rightarrow SYS ARMED EVENT \rightarrow OK \rightarrow SMS TO ALL

→ OK → ENABLE → OK SMS delivery report: ... → SYS ARMED EVENT → OK → SMS REPORT → OK → ENABLE → OK

System disarmed:

User phone number: ... → SYS DISARMED EVENT → OK → GSM USER 1... 10 → OK → ENABLE → OK

SMS text message to all users simultaneously: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow SMS TO

ALL → OK → ENBABLE → OK SMS delivery report: ... → SYS DISARMED EVENT → OK → SMS REPORT → OK → ENABLE

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

System armed event

User phone number 25 01 up 1 #

SMS text message to all users simultaneously: 21 01 1 #

SMS delivery report: 55 01 1 #

System disarmed event

User phone number: 25 02 up 1 #

SMS text message to all users simultaneously: 21 02 1 #

SMS delivery report: 55 02 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2502061#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: The system will always deliver an SMS notification to the user after arming/disarming the system by SMS text message method even if the arm/ disarm SMS notification is disabled.

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to **27. SYSTEM NOTIFICATIONS.**

13. EXIT AND ENTRY DELAY

When arming, the system initiates the exit delay countdown (by default -15 seconds) intended for the user to leave the secured area. The exit delay is indicated by short beeps emitted by EKB2/EKB3/EKB3W keypad buzzer and buzzer, connected to the alarm system. When arming:

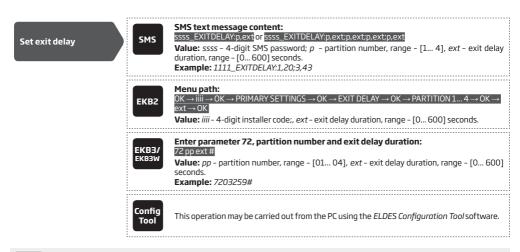
- a non-partitioned system, a countdown timer will be displayed in the home screen view of EKB2 during exit delay.
- a partitioned system, EKB2 keypad will display ARMING part-name message on the screen for 2 seconds and switch to partition selection menu during exit delay.

Exit delay is provided when arming the system by the following methods:

- EKB2/EKB3/EKB3W keypad and user/master code.
- iButton key.
- Arm/Disarm by Zone.

To arm the system without exit delay, use one of the following system arming methods:

- Free of charge phone call.
- SMS text message.
- EWK1/EWK2/EWK2A wireless keyfob
- EGR100 middle-ware.

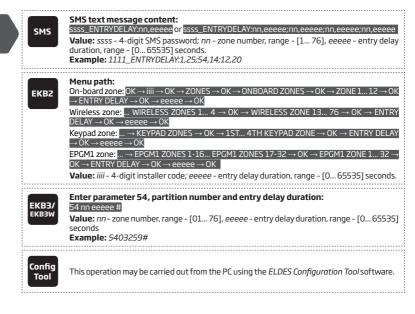


NOTE: Alternatively, you can set exit delay value to "0" in order to arm the system without exit delay by any available method.

NOTE: EKB3/EKB3W keypad buzzer will only beep if the keypad is operating in the partition where exit delay countdown is in progress.

Once the exit delay has expired, the system initiates the entry delay countdown (by default - 15 seconds) if a Delay type zone is violated. The countdown is indicated by short beeps emitted by keypad buzzer and by steady beep emitted by system's buzzer. The indication is intended to advise the user that the system should be disarmed. Once the user presses/touches any key on the keypad during this delay, the buoer of the keypad will be silenced. If the system is disarmed before the entry delay expires, no alarm will be caused.

Set entry delay for Delay zone



NOTE: Due to battery power saving reasons, EKB3W keypad buzzer will not sound during exit and entry delay if the violated Delay type zone is not of the associated EKB3W keypad.

For more details on zone types, please refer to 14.5. Zone Type Definitions.

14. ZONES

Detection devices such as motion detectors and door contacts are connected to the alarm system's zone terminals. Once connected, the associated zone's parameters must be configured.

ESIM364 comes equipped with 6 on-board zones allowing to connect up to 6 detection devices. For more details regarding zone expansion, please refer to **14.2. Zone Expansion**.

ESIM364 zones are classified by 5 categories:

| Zone category | Description | Max. number of zones per device | Max. number of zones in total |
|----------------|---|---------------------------------|-------------------------------|
| On-board zones | Built-in wired zones of ESIM364 alarm system. | 6/12* | 6/12* |
| Keypad zones | Hardwired zones of EKB2/EKB3/EKB3W keypad. | 1 | 4 |
| EPGM1 zones | Zones of EPGM1 - hardwired zone and PGM output expansion module. | 16 | 32 |
| Wireless zones | Non-physical zones automatically created by connected wireless devices. | 4** | 64*** |
| Virtual zones | Non-physical zones intended for Panic button feature (alarm activation upon pressing the button) on EWK1/EWK2 wireless keyfob. Virtual zones can be manually created using ELDES Configuration Tool software. | 64*** | 64*** |

^{* - 6-}Zone mode is enabled by default. ATZ mode doubles the on-board zone number and increases it to 12 in total.

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/

14.1. Zone Numbering

The zone numbers ranging from Z1 through Z12 are permanently reserved for on-board zones even when ATZ mode is disabled. The Z13-Z76 zone numbers are automatically assigned in the chronological order to the created virtual zones and the devices connected to the system: keypads, wireless devices, EPGM1 modules.

14.2. Zone Expansion

For additional detection device connection, the number of zones can be expanded by:

- enabling the ATZ (Advanced Technology zone) mode (see 14.4, ATZ (Advanced Technology Zone) Mode).
- connecting EPGM1 hardwired zone and PGM output expansion module (for more details on technical specifications and installation,
 please refer to the latest user manual of the device located at www.eldes.lt/download).
- connecting keypads (see 32.1.1. EKB2 LCD Keypad, 32.1.2. EKB3 LED Keypad and 19.4. EKB3W Wireless LED Keypad).
- pairing wireless devices (see 19. WIRELESS DEVICES).
- creating virtual zones (see ELDES Configuration Tool software's Help section).

The maximum supported number of zones is 76.

14.3. 6-Zone Mode

By default, ESIM364 alarm system runs in the 6-Zone mode under zone connection Type 1 allowing to connect up to 6 detection devices of NO (normally-open) type to the on-board zone terminals as indicated in the wiring diagram of Type 1. Different zone connection types of 6-Zone mode can be individually assigned to each on-board zone.

The EPGM1 module supports 6-Zone mode only, while the selected zone connection type applies to hardwired zones of EPGM1 module altogether. By default, EPGM1 module runs in the 6-Zone mode under zone connection Type 1. However, a mixed combination of Type 1 and Type 2 zone connection types is supported simultaneously regardless of the type (Type 1 or Type 2) selected in the system's configuration. Once Type 3 zone connection type is selected, the detection device wiring on EPGM1 module zones must be done according to the wiring diagram of the associated type.

The keypads support Type 1 and Type 2 of 6-Zone mode only. A mixed combination of both zone connection types is supported by keypad zones.

Zone connection types featured by 6-Zone mode are following:

- **Type 1** Parallel wiring of NO (normally-open) detection device with 5,6kΩ EOL (end-of-line) resistor.
- Type 2 Serial wiring of NC (normally-closed) detection device with 5,6kΩ EOL resistor.
- Type 3 Combination of serial and parallel wiring of tamper with 5,6kΩ EOL resistor and NC detection device with 3,3kΩ EOL resistor.

For zone wiring diagrams of the 6-Zone mode, please refer to 2.3.2. Zone Connection Types.

^{** -} Depends on the paired wireless device

^{*** -} Available only if no keypad zones, EPGM1 zones and virtual zones are present.

^{**** -} Available only if no keypad zones, EPGM1 zones and wireless zones are present.

Set zone connection type of 6-Zone mode for on-board and EPGM1 zones



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: Type 3 is NOT supported by keypad zones.

14.4. ATZ (Advanced Technology Zone) Mode

The ATZ mode is a software-based feature that doubles the number of on-board zones and enables two detection devices to be installed per 1 zone terminal. Once this mode is enabled, the zone connection Type 4 is set automatically. The detection devices must be wired to the on-board zone terminals as indicated in the wiring diagram of the associated zone connection type. Different zone connection types of ATZ mode can be individually assigned to each on-board zone pair i.e. 21 - 27, Z2 - 28 etc.

Once enabled, the ATZ mode DOES NOT affect EPGM1 zones, nor keypad zones and applies to on-board zones only. The ATZ mode is NOT supported by EPGM1 and keypad zones.

Zone connection types featured by ATZ mode are the following:

- Type 4 Parallel wiring of 2 NC (normally-closed) detection devices with 5,6kΩ and 3,3kΩ EOL (end-of-line) resistors respectively.
 5,6kΩ EOL resistor corresponds to zones ranging from Z1 through Z6, while 3,3kΩ EOL resistor corresponds to zones ranging from Z7 through Z12.
- Type 5 Combination of serial and parallel wiring of tamper with 5,6kΩ EOL resistor and 2 NC (normally-closed) detection devices with 5,6kΩ and 3,3kΩ EOL resistors respectively. 5,6kΩ EOL resistor corresponds to zones ranging from Z1 through Z6, while 3,3kΩ EOL resistor corresponds to zones ranging from Z7 through Z12.

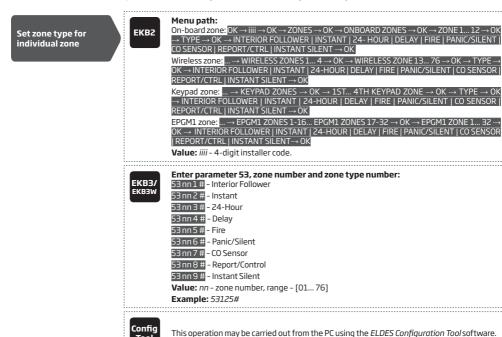
For zone wiring diagrams of the ATZ mode, please refer to 2.3.2. Zone Connection Types.



56

14.5. Zone Type Definitions

- Interior Follower The zone can be violated during exit and entry delay without causing an alarm. If the zone is violated before the entry delay has begun, it will cause an instant alarm followed by single notification delivery even if the zone has been violated multiple times or another Interior Follower-type zone has been violated while alarm period (by default - 1 minute) is in progress. Typically, this zone is used for indoor protection devices, such as motion detectors, installed close to the exit/entry doors.
- Instant The alarm is instantly caused if this zone is violated when the system is armed or during entry delay. This zone type is usually used for doors, windows, shock sensors or other zones.
- 24-Hour When the system is either armed or disarmed, the zone will cause instant alarm if violated. Normally, this type of zone is used for securing the areas that require constant supervisory.
- **Delay** This zone type can be violated during exit and entry delay without causing an alarm. If the zone is violated when the system is armed, it will initiate entry delay countdown intended for the user to disarm the system. If the zone is left violated after the exit delay expires, it will cause an instant alarm. Typically, this zone type is used for door contacts installed at designated exit/entry doors.
- Fire If this zone type is violated when the system is either armed or disarmed, the alarm will be instantly caused and the siren/bell will emit pulsating sound. Typically, this zone type is used for flame and smoke detectors.
- Panic/Silent This zone operates the same as 24-Hour zone type, but the system will not activate the siren/bell and keypad buzzer if violated. Normally, this zone type used for panic alarm buttons.
- CO Sensor This zone type operates identically to Fire zone type and it is used for CO (carbon monoxide) detector.
- Report/Control This zone operates the same as Panic/Silent zone type, but burglary event data message will be transmitted to the monitoring station if violated. However, no alarm will be caused - the system will NOT dial the listed user phone number regardless of the status of Call in Case of Alarm feature (enabled or disabled), nor the siren will sound. Typically, this zone type is used to report a certain non-alarm event, such as heating activation or fault.
- Instant Silent This zone operates in the same way as Panic/Silent, but only when the system is armed.



NOTE: The system will NOT activate siren and keypad buzzer only when Panic/Silent, Report/Control or Instant Silent zone type is violated.

14.6. Zone Attributes

Tool

- Stay If this attribute is enabled, the zone, regardless of type, will not cause an alarm if violated when the system is Stay armed. For more details on arming the system in the Stay mode, please refer to 15. STAY MODE.
- Force This attribute determines whether the system can be armed or not while a zone is violated resulting in partial arm event. If a zone with the Force attribute enabled remains violated until the exit delay expires, it will be ignored. Once the system is partially armed

followed by zone restore, the violation of this zone will no longer be ignored and the zone will operate according to the determined type. For more details on zone types, please refer to **14.5. Zone Type Definitions**.

- Shared This attribute determines whether a zone, assigned to multiple partitions, will cause an alarm or not in the associated armed
 partition if violated. If a zone with the Shared attribute enabled is violated when at least one of the associated partitions is disarmed,
 the alarm will not be caused. Once the system is armed in all of the associated partitions, the zone with Shared attribute enabled will
 operate according to the determined type. Typically, this attribute is used for shared areas, such as corridors.
- **Delay, ms** This attribute determines the zone sensitivity level by delay time (by default 800 milliseconds). If a zone is left triggered until the delay time expires, the zone is considered violated. This attribute does not apply to wireless zones, keypad zones and virtual zones.
- Cross-Zone/Intelli-Zone is a method used to prevent false alarms. The system will not cause an alarm unless two associated zones
 are violated within a specified time period, known as Alarm Confirmation Timeout. By associating a certain zone to itself, the system
 would cause an alarm only if the zone has been violated repeatedly within the Alarm Confirmation Timeout. This feature operates with
 all zone categories including virtual zones.
- Delay becomes Instant in Stay mode This attribute determines whether or not any Delay type zone will operate as Instant type
 zone when the system is armed in the Stay mode. When the system is fully armed, the Delay type zone will operate normally. For more
 details on Delay and Instant zone types, please refer to 14.5. Zone Type Definitions.
- Chime This feature is used to emit 3 short beeps from the keypad buzzer whenever any Delay type zone is violated while the system
 is disarmed. Typically, the feature is used for designated exit/entry doors to indicate the opening of the doors.
- Bell -This attribute operates identically as Chime and applies to EKB3W keypad only.
- Alarm count to bypass This attribute determines a number of times the zone can be violated until it is automatically bypassed. It
 can be assigned to Interior Follower, Instant, Delay and Instant Silent zone types only. For more details on zone bypassing and how to
 activate a bypassed zone, please refer to 14.7. Bypassing and Activating Zones.

NOTE: Due to battery power saving reasons, EKB3W wireless keypad buzzer will not sound if the Bell attribute is not enabled and the violated Delay type zone is not of the associated EKB3W wireless keypad. For more details on EKB3W wireless keypad, please refer to 19.5. EKB3W - Wireless LED Keypad.

Enable Stay attribute for individual zone

Menu path:

On-board zone: OK → iiii → OK → ZONES → OK → ONBOARD ZONES → OK → ZONE 1... 12 → OK → STAY → OK → ENABLE → OK Wireless zone: ... → WIRELESS ZONES 1... 4 → OK → WIRELESS ZONE 13... 76 → OK → STAY → OK → ENABLE → OK Keypad zone: ... → KEYPAD ZONES → OK → 15T... 4TH KEPAD ZONE → OK → STAY → OK → ENABLE → OK EPGM1 ZONES 1... EPGM1 ZONES 1... 20 → OK → STAY → OK → ENABLE → OK Value: $\frac{1}{1}$ $\frac{1}{1}$



Enter parameter 56, zone number and parameter status value: 56 nn 1 #

Value: nn - zone number, range - [01... 76]. **Example:** 56041#



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Disable Stay attribute for individual zone



Enter parameter 56, zone number and parameter status value:

56 nn Ö #

Value: nn - zone number, range - [01... 76].

Example: 56190#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable Force attribute for individual zone

Menu path: EKB2

On-board zone: OK → iiii → OK → ZONES → FORCE → OK → ENABLE → OK

Wireless zone: ... \rightarrow WIRELESS ZONES 1. \rightarrow OK \rightarrow ENABLE \rightarrow OK

Keypad zone: ... \rightarrow KEYPAD ZONES \rightarrow OK \rightarrow 1ST... 4TH KEYPAD ZONE

 $ENABLE \rightarrow OK$

EPGM1 zone: ... \rightarrow EPGM1 ZONES 1-16... EPGM1 ZONES 17-32 \rightarrow OK \rightarrow EPGM1 ZONE 1... 32 \rightarrow $OK \rightarrow FORCE \rightarrow OK \rightarrow ENABLE \rightarrow OK$

Value: iiii - 4-digit installer code.

EKB3/ FKR3W

Enter parameter 82, zone number and parameter status value:

82 nn 1 #

Value: nn - zone number, range - [01... 76].

Example: 82061#

Config Tool

EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable Force attribute for individual zone Menu path:

On-board zone: $OK \rightarrow iiii \rightarrow OK \rightarrow ZONES \rightarrow OK \rightarrow ONBOARD ZONES \rightarrow OK \rightarrow ZONE 1... 12 \rightarrow OK$

 \rightarrow FORCE \rightarrow OK \rightarrow DISABLE \rightarrow OK

Wireless zone: ... → WIRELESS ZONES 1... 4

 \rightarrow OK \rightarrow DISABLE \rightarrow OK

Keypad zone: ... \rightarrow KEYPAD ZONES \rightarrow OK \rightarrow 1ST... 4TH KEYPAD ZONE \rightarrow OK \rightarrow FORCE \rightarrow OK \rightarrow

DISABLE \rightarrow OK EPGM1 zone: ... \rightarrow EPGM1 ZONES 1-16... EPGM1 ZONES 17-32 \rightarrow OK \rightarrow EPGM1 ZONE 1... 32 \rightarrow

 $OK \rightarrow FORCE \rightarrow OK \rightarrow DISABLE \rightarrow OK$

Value: iiii - 4-digit installer code.

EKB3/ **EKB3W** Enter parameter 82, zone number and parameter status value:

82 nn 0 #

Value: nn - zone number, range - [01... 76].

Example: 82110#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable/disable Shared attribute for individual zone

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set Delay, ms attribute

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable/disable Delay becomes Instant in Stay mode attribute

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable Chime attribute



Menu path:

 $OK \rightarrow iiii \rightarrow OK \rightarrow ZONES \rightarrow OK \rightarrow CHIME \rightarrow OK \rightarrow DISABLE \rightarrow OK$

Value: iiii - 4-digit installer code.



Enter parameter 32 and parameter status value: 320 #

Example: 320#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable Chime attribute



Menu path:

 $OK \rightarrow iiii \rightarrow OK \rightarrow ZONES \rightarrow OK \rightarrow CHIME \rightarrow OK \rightarrow ENABLE \rightarrow OK$

Value: iiii - 4-digit installer code.



Enter parameter 32 and parameter status value:

321#

Example: 321#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

By default, Cross-Zone/Intelli-Zone is not set. To associate two zones and/or set the Alarm Confirmation Timeout, please refer to the following configuration method.

Associate a zone for Cross-Zone/Intelli-Zone attribute



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set Alarm Confirmation Timeout



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set Alarm Count to Bypass attribute for individual zone



This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: Cross-Zone/Intelli-Zone feature is NOT recommended in case it is necessary to bypass the associated zone, otherwise the zone that requires alarm confirmation will never cause an alarm when violated.

14.7. Bypassing and Activating Zones

NOTE for EKB3/EKB3W: The Configuration mode must remain deactivated before bypassing a violated zone or activating a bypassed zone.

Zone bypassing allows the user to deactivate a violated zone and arm the system without restoring the zone. If a bypassed zone is violated or restored during exit/entry delay, or when then system is armed, it will be ignored. When a zone is bypassed, EKB3/EKB3W keypad indicator BYPS will light ON and EKB2 keypad will display to in the home screen view.

Bypass individual violated zone

Menu path:

○K → uumm → ○K → BYPASS → ○K → BYPASS LIST1... 5 → ○K → Z1-zone-name... Z76-zone-name → ○K → BYPASS → ○K

Value: uumm - 4-digit user/master code; zone-name - up to 24 characters zone name.

Press the [BYPS] key, enter zone number and user/master code:

BYPS nn uumm #

Value: nn - zone number, range - [01... 76]; uumm - 4-digit user/master code.

Example: BYPS091111#

Bypass all violated zones

Menu path: $OK \rightarrow uumm \rightarrow OK \rightarrow BYPASS \rightarrow OK \rightarrow BYP VIOLATED ZONES \rightarrow OK$ Value: uumm - 4-digit user/master code.

The zone will remain bypassed until the system is disarmed. Once the system is disarmed, the corresponding zone state will be indicated on the keypads (see 32.1.1. EKB2 - LCD Keypad, 32.1.2. EKB3 - LED Keypad and 19.5. EKB3W - Wireless LED Keypad) and Info SMS text message (see 26. SYSTEM INFORMATION. INFO SMS). Alternatively, the user can activate the bypassed zone by the following configuration methods.

Menu path:

OK → uumm → OK → BYPASS → OK → BYPASS LIST 1... 5 → OK → Z1-zone-name... Z76-zone-name → OK → UNBYPASS → OK

Value: uumm - 4-digit user/master code; zone-name - up to 24 characters zone name.

Press the [BYPS] key, enter zone number and user/master code:

BYPS nn uumm #

Value: nn - zone number, range - [01... 76]; uumm - 4-digit user/master code.

Example: BYPS251111#

NOTE: Zones can only be bypassed and activated when the system is not armed.

14.8. Zone Names

Each zone has a name that can be customized by the user. Typically, the name specifies a device type connected to a determined zone terminal, for **Example**: Kitchen doors opened. The zone names are used in SMS text messages that are sent to the user during alarm. the By default, the zone names are: Z1 - Zone1, Z2 - Zone2, Z3 - Zone3, Z4 - Zone4 etc.

SMS text message content:

SMS Value: SSSS _Znn:zone-name

Value: SSSS - 4-digit SMS password; nn - zone number, range - [1... 76]; zone-name - up to 24 characters zone name.

Example: 1111_Z3:Door sensor triggered

Config

This operation may be carried out from the PC using the ELDES Configuration Tool software.

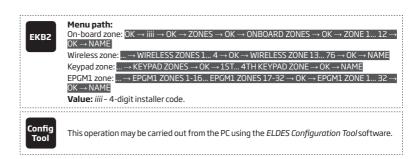
View zone names

SMS text message content:

SSSS_STATUS

Value: ssss - 4-digit SMS password.

Example: 1111_STATUS

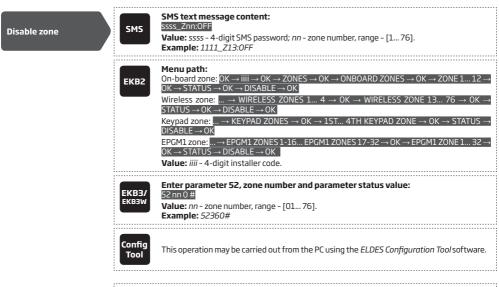


ATTENTION: Colon, semi-colon characters, parameter names and/or values, such as PSW, STATUS, ON, OFF etc. are NOT allowed in zone names

NOTE: Multiple zone names can be set by a single SMS text message, **Example:** 1111_Z1:Kitchen doors opened;Z3:Movement in base-ment;Z4:Bedroom window opened

14.9. Disabling and Enabling Zones

By default, all zones, except keypad and virtual zones, are enabled. To permanently disable/enable an individual zone, please refer to the following configuration methods.

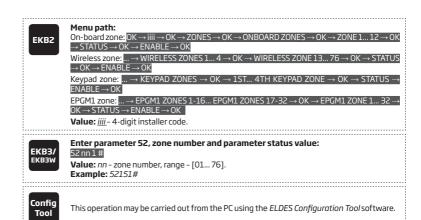


Enable zone

SMS text message content: SMS ssss_Znn:ON

Value: ssss - 4-digit SMS password; nn - zone number, range - [1... 76].

Example: 1111_Z6:0N

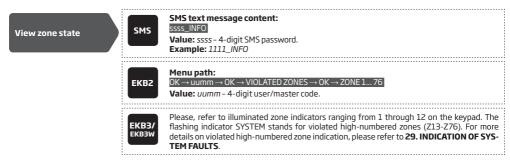


14.10. Viewing Zone State

The zone state (violated/restored) is indicated in real-time by all available configuration methods. However, the most convenient way to view the zone state is using the graphical interface of ELDES Configuration Tool software as follows:

- · Red zone is violated.
- Green zone is restored.
- · Grey zone is disabled.

To view the zone state, please refer to the following configuration methods.



15. STAY MODE

Stay mode allows the user to arm and disarm the alarm system without leaving the secured area. If the zones with Stay attribute enabled are violated when the system is Stay armed, no alarm will be caused. Typically, this feature is used when arming the system at home before going to bed.

The system can be Stay armed under the following conditions:

- If a Delay-type zone is NOT violated during exit delay and a zone (-s) with Stay attribute enabled exists, the system will arm in Stay
 mode. When arming the system in Stay mode under this condition, one of the available arming methods must be used that provide exit
 delay. For more details on these methods, please refer to 13. EXIT AND ENTRY DELAY.
- The system will instantly arm in Stay mode when using one of the following methods.

Arm the system in Stay mode



Menu path:

Non-partitioned system: P2 → uumm → OK

Partitioned system: $P2 \rightarrow uumm \rightarrow OK \rightarrow [p]$ part-name $\rightarrow OK$

Value: *uumm* – 4-digit user/master code; *p* – partition number, range – [1... 4]; *part-name* – up to 15 characters partition name.



Press the [STAY] key and enter user/master:

STAY uumm

Value: *uumm* – 4-digit user/master code.

Example: STAY1111



This operation may be carried out from the wireless keyfob if pre-assigned using the PC running *ELDES Configuration Tool* software.

When one or more system partitions are successfully armed in Stay mode, EKB2 keypad will display 🙆 icon in the home screen view.

NOTE for EKB3/EKB3W: The Configuration mode must be deactivated, when Stay-arming the system.

NOTE: The system can be armed in Stay mode, only if there is at least one zone with Stay attribute enabled.

NOTE: Stay mode is not supported by virtual zones.

NOTE: The system can also be instantly Stay-armed using ELDES Cloud Services.

For more details on how to enable Stay attribute for zone, please refer to 14.6. Zone Attributes.

16. TAMPERS

The tamper circuit is a single closed loop such that a break in the loop at any point will cause a tamper alarm regardless of the system status – armed or disarmed. During the tamper alarm, the system will activate the siren/bell and the keypad buzzer and send the SMS text message to the listed user phone number. The system will cause tamper alarm under the following conditions:

- If the enclosure of a detection device, siren/bell, metal cabinet or keypad is opened, the physical tamper switch will be triggered. By default, indicated as Tamper x in the SMS text message (x = tamper number). Alternatively, the tamper switch can be connected to a zone resulting in zone alarm when tampered (see 15. ZONES).
- If the wireless signal is lost due to low signal level or low battery power on a certain wireless device (see 19.3. Wireless Signal Status Monitoring).

By default, all tampers and tamper alarm notification by SMS text message is enabled. To disable/enable a certain tamper and/or tamper alarm notification, please refer to the following configuration methods

Disable/enable tamper

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

View violated tampers

SMS

The system will automatically send an SMS text message, containing a violated tamper name, to user phone number.

EKB2

EKB2 Menu path:

 $OK \rightarrow uumm \rightarrow OK \rightarrow VIOLATED TAMPERS \rightarrow OK \rightarrow TAMPER 1... 76$

Value: uumm - 4-digit user/master code.

EKB3/ EKB3W The illuminated indicator SYSTEM stands for system fault presence including violated tamper. For more details on violated tamper indication, please refer to 29. INDICATION OF SYSTEM FAULTS.

Disable tamper alarm notification

EKB2

Menu path:

User phone number: OK → iiii → OK → SMS MESSAGES 2 → OK → TAMPER ALARM → OK → GSM USER 1... $10 \rightarrow$ OK → DISABLE → OK

SMS text message to all users simultaneously: ... ightarrow TAMPER ALARM ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow DISABLE ightarrow OK

SMS delivery report: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 13 up 0 #

SMS text message to all users simultaneously: 21 13 0 #

SMS delivery report: 55 13 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2513030#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable tamper alarm notification

EKB2

Menu path:

User phone number: OK → iiii → OK → SMS MESSAGES 2 → OK → TAMPER ALARM → OK → GSM USER 1... 10 → OK → ENABLE → OK

SMS text message to all users simultaneously: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

 $\mathsf{SMS}\,\mathsf{delivery}\,\mathsf{report:}\,...\to\mathsf{TAMPER}\,\mathsf{ALARM}\to\mathsf{OK}\to\mathsf{SMS}\,\mathsf{REPORT}\to\mathsf{OK}\to\mathsf{ENABLE}\to\mathsf{OK}$

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 13 up 1 #

SMS text message to all users simultaneously: 21131#

SMS delivery report: 55 13 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2513041#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details on how to view violated tamper, please refer to 17. ALARM INDICATIONS AND NOTIFICATIONS FOR USER.

ATTENTION: Once a certain tamper is disabled, the system will NOT deliver any text message regarding the physical tamper violation nor wireless signal loss or restore.

ATTENTION: The system will NOT deliver any text message regarding wireless signal loss or restore while the physical tamper violation is in progress.

ATTENTION: The system will NOT cause any tamper alarm regarding the physical tamper violation nor wireless signal loss if the associated zone is disabled.



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following feature:

- System arming is blocked if any system fault exists. The user will not be able to arm the system until all existing system faults are solved.
- System arming is blocked until tamper fault is cleared by the installer.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3.**

16.1. Tamper Names

Each tamper has a name that can be customized by the user. The tamper names are used in SMS text messages that are sent to the user during the tamper alarm. By default, the tamper names are: *Tamper 1, Tamper 2, Tamper 3, Tamper 4 etc.* To set a different tamper name, please refer to the following configuration methods.

Manage tamper name



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

17. ALARM INDICATIONS AND NOTIFICATIONS FOR USER

When a zone, depending on zone type (see **14.5. Zone Type Definitions**), or tamper is violated, the system will cause an alarm. By default, the alarm duration is 1 minute (see **20. SIREN/BELL** regarding the alarm duration). During the alarm, the system will follow this pattern:

- 1. The system activates the siren/bell and the keypad buzzer.
- a) The siren/bell will emit pulsating sound if the violated zone is of Fire type, otherwise the sound will be steady.
- b) The keypad buzzer will emit short beeps.
- c) EKB2 keypad will display !!! icon next to the alarmed partition in the home screen view followed by dicon indicating the presence of the alarm events in the alarm log (see **28. EVENT AND ALARM LOG**). In case a Fire-type zone is violated in any system partition, which is in the home screen view.
- d) EKB3 keypad operating in 4-partition mode will flash the [1]... [4] key corresponding to the alarmed partition number.
- e) If one or more zones are violated, EKB3/EKB3W will light ON the corresponding violated zone indicator (-s) ranging from 1 through 12. Indicator SYSTEM will flash if one or more high-numbered zones are violated. If one or tampers are violated, indicator SYSTEM will light ON. For more details on viewing violated high-numbered zone and tamper numbers by EKB3/EKB3W keypad, please refer to 29. INDICATION OF SYSTEM FAULTS.
- 2. The system attempts to send an SMS text message, containing the violated zone/tamper name (see 14.8. Zone Names and 16.1. Tamper Names on how to set a zone and tamper name respectively), to the first listed user phone number, sharing the same partition as the violated zone/tamper. The system will send SMS text messages regarding each violated zone/tamper separately.
- a) If the user phone number is unavailable and the system fails to receive the SMS delivery report during 45 seconds, it will attempt to send the SMS text message to the next listed user phone number, assigned to the same partition as the previous one. The user phone number may be unavailable due to the following reasons:
 - mobile phone was switched off.
 - was out of GSM signal coverage.
- b) By default, the system will continue sending the SMS text message to the next listed user phone numbers in the priority order until one is available. The system sends the SMS text message only once and will not return to the first user phone number if the last one was unavailable.
- 3. By default, the system attempts to ring the first user phone number via GSM, sharing the same partition as the violated zone/tamper. The system will dial regarding each violated zone/tamper separately.
- a) When the call is answered, the system will shut down the siren/bell and play the audio file that can be listened to on the user's mobile phone. This feature will be available only if an audio file is recorded and assigned to the violated zone (see **17.2. Audio Files**).
- b) When the audio record has played, the user will be able to listen on the mobile phone for approx. 30 seconds to what is happening in the area, surrounding the alarm system. This feature will be available only if a microphone is connected to the system (see 25. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION).
- c) The system will dial the next listed user phone number, assigned to the same partition, if the previous user was unavailable due to the following reasons:
 - mobile phone was switched off.
 - mobile phone was out of GSM signal coverage.
 - provided "busy" signal.
 - user did not answer the call after several rings, predetermined by the GSM operator.
- d) The system will continue dialling the next listed user phone numbers in the priority order until one is available. The system will dial the user phone number 5 times if the first user phone number was out of GSM signal coverage/switched OFF, otherwise the system will dial only once. If the system ends up with all unsuccessful attempts to contact any listed user phone number, will stop dialling and will not return to the first user phone number. The system will not dial the next listed user phone number if the previous one was available, but rejected the phone call.
- 4. If Treat PSTN Call as User Call is feature is enabled, the system attempts to ring the first phone number via PSTN (see 30.2.3. PSTN). The system will dial regarding each violated zone/tamper separately.
- a) When the call is answered, the system will automatically drop the call.
- b) The system will dial the next listed phone number if the previous one was unavailable due to the following reasons:
 - mobile phone was switched off.
 - mobile phone was out of GSM signal coverage.
 - provided "busy" signal.
 - user did not answer the call after several rings, predetermined by the GSM operator.
- c) By default, the system will continue dialling the next listed user phone numbers in the priority order until one is available. The system will dial the user phone number 5 times if the first user phone number was out of GSM signal coverage/switched OFF, otherwise the system will dial only once. If the system ends up with all unsuccessful to contact any listed user phone number, will stop dialling and will not return to the first user phone number. The system will not dial the next listed user phone number if the previous one was available, but rejected the phone call.
- d) If Call All in Case of Alarm feature is enabled, the system will attempt to ring all listed user phone numbers in a row starting with the first user phone number with Call in Case of Alarm feature enabled. Regardless of the user being available, unavailable or if he/she has

rejected the call, the system will still move to the next listed user with Call in Case of Alarm feature enabled. Once the system has ended contacting all listed users with Call in Case of Alarm feature enabled, it will repeat this cycle 3 more times (by default) by attempting to contact the previously unavailable users and skipping the available ones.

To silent the siren/bell as well as to cease system phone calls and SMS text message sending to the user phone numbers, please disarm the system (see 12. ARMING AND DISARMING).

ATTENTION: The wireless siren EWS2/EWS3 will sound only if wireless zone of the siren is assigned to the same partition as the one that has been alarmed (see 23.1. Zone Partition).

View violated zones

SMS text message content: **SMS**

ssss INFO

Value: ssss - 4-digit SMS password.

Example: 1111_INFO

Menu path: EKB2

 \rightarrow uumm \rightarrow OK \rightarrow VIOLATED ZONES \rightarrow OK \rightarrow ZONE 1... 76

Value: uumm - 4-digit user/master code.

Please, refer to illuminated zone indicators ranging from 1 through 12 on the keypad. The EKB3/ **EKB3W**

flashing indicator SYSTEM stands for violated high-numbered zones (Z13-Z76). For more details on violated high-numbered zone indication, please refer to 29. INDICATION OF SYS-TEM FAULTS.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

View violated tampers

The system will automatically send an SMS text message, containing a violated tamper name, SMS to user phone number.

EKB2

Menu path:

 $OK \rightarrow uumm \rightarrow OK \rightarrow VIOLATED TAMPERS \rightarrow OK \rightarrow TAMPER 1... 76$

Value: uumm - 4-digit user/master code.

EKR3/ FKR3W

The illuminated indicator SYSTEM stands for system fault presence including violated tamper. For more details on violated tamper indication, please refer to 29, INDICATION OF SYS-TEM FAULTS.

Manage Call All in Case of Alarm

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details on how to disable/enable SMS text messages and phone calls to listed user phone number in case of alarm, please refer to 17.1. Enabling and Disabling Alarm Notifications

ATTENTION: Phone calls via GSM network to the listed user phone number in case of alarm are disabled by force when MS mode is enabled (see 30. MONITORING STATION).

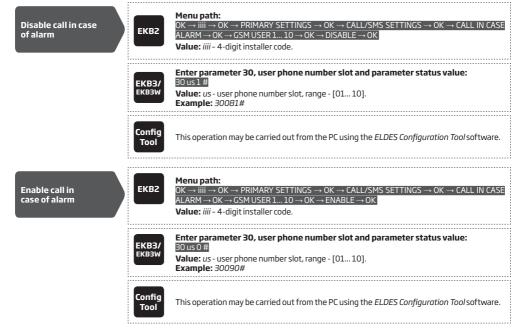
NOTE: If one or more zones/tampers are violated during the alarm, the system will attempt to send as many SMS text message and dial the user phone number as many times as the zone/tamper was violated. However, this does NOT apply to Interior Follower-type zones.

NOTE: If the system has delivered an SMS text message and/or dialled the user phone number after disarming the system, it means that the SMS text message and/or phone call was queued up in the memory before the system was disarmed. The capacity of the queue is 24 events maximum

NOTE: In some case, the system might be UNABLE to dial the next listed user phone number in case the phone number has been migrated from a different GSM operator.

17.1. Enabling and Disabling Alarm Notifications

By, default the system will ring the listed user phone numbers via GSM in case of alarm. To disable/enable this feature, please refer to the following configuration methods.



By, default the system will send SMS text message to listed user phone numbers in case of alarm. To disable/enable this feature, please refer to the following configuration methods.

| Disable SMS text message in case of alarm | ЕКВ2 | Menu path: User phone number: $OK → SMS MESSAGES 1 → OK → GENERAL ALARM → OK → GSM USER 1 10 → OK → DISABLE → OK SMS text message to all users simultaneously: → GENERAL ALARM → OK → SMS TO ALL → OK → DISABLE → OK SMS delivery report: → GENERAL ALARM → OK → SMS REPORT → OK → DISABLE → OK Value: iiii - 4-digit installer code. $ |
|---|----------------|---|
| | EKB3/ EKB3W | Enter parameter 25/21/55, event number, user phone number slot and parameter status value: User phone number: 25 03 up 0 # SMS text message to all users simultaneously: 21 03 0 # SMS delivery report: 55 03 0 # Value: up - user phone number slot, range - [01 10]. Example: 2503060# |
| | Config Tool | This operation may be carried out from the PC using the <i>ELDES Configuration Tool</i> software. |

Enable SMS text message in case of alarm

User phone number: OK → iiii → OK → SMS MESSAGES 1 - GSM USER 1... 10 → OK → ENABLE → OK EKB2 SMS text message to all users simultaneously: ... → GENERAL ALARM $OK \rightarrow ENABLE \rightarrow OK$ SMS delivery report: ... \rightarrow GENERAL ALARM \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK Value: iiii - 4-digit installer code. ΕN 69



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 03 up 1 #

SMS text message to all users simultaneously: 21 03 1 #

SMS delivery report: 55 03 1 #

Value: *up* - user phone number slot, range - [01... 10]. **Example:** 2503101#

.....



This operation may be carried out from the PC using the ELDES Configuration Tool software.

By, default the system will not ring the listed phone number via PSTN in case of alarm. To manage this feature, please refer to **30.2.3. PSTN**)

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to **27. SYSTEM NOTIFICATIONS.**

By default, tamper alarm notification by SMS text message is enabled. For more details on how to disable/enable tamper alarm notification, please refer to **16. TAMPERS**.

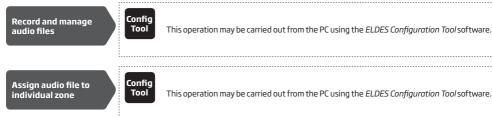
ATTENTION: Regardless of the Call in Case of Alarm parameter status, the system will NOT ring the listed user phone number via GSM network if the system is connected to the monitoring station (see 30. MONITORING STATION).

17.2. Audio Files and Introduction audio

The system comes equipped with a feature, allowing to record up to 16 audio files of up to 6 seconds length, and another feature, which allows to record 1 introduction audio file of up to 20 seconds length, using the microphone of the PC. Recorded files can be assigned to any system zone, except virtual zone, and be played when the alarm is caused by zone with an audio file assigned. These features will be available only if the system is able to dial user phone number in the event of an alarm and the user answers the call. When the call is answered, the primarily recorded introduction audio file (if assigned), containing essential information (location/ full address or/and user full name) is being played, while the audio file (up to 6 sec. long) will come up just after introduction audio has ended. The supported audio file format is as follows:

- Max. number of audio files: up to 16
- Max. audio length: up to 6 seconds
- Max. number of introduction audio files: 1
- Max. introduction audio length: up to 20 seconds
- File format: .wav
- · Specifications: 8,000 kHz; 8 Bit; Mono

By default, none of these audio files are pre-recorded or assigned to any particular zone. To record an introduction audio or audio file and/or assign it to a zone, please refer to the following configuration method.



NOTE: Single audio file can be assigned to multiple zones.

18. PROGRAMMABLE (PGM) OUTPUTS

A PGM output is a programmable output that toggles to its set up state when a specific event has occurred in the system, the scheduled weekday and time has come or if the user has initiated the PGM output state change manually. Normally, PGM outputs can be used to open/close garage doors, activate lights, heating, watering and much more. When a PGM output turns ON, the system triggers any device or relay connected to it.

ESIM364 comes equipped with four open-collector PGM outputs allowing to connect up to four devices or relays. For more details on PGM output expanding, please refer to **18.2. PGM Output Expansion**.

ESIM364 PGM outputs are classified by 4 categories:

| PGM output category | Description | Max. number of PGM outputs per device | Max. number of PGM outputs in total |
|----------------------|---|---------------------------------------|-------------------------------------|
| On-board PGM Outputs | Built-in wired PGM outputs of ESIM364 alarm system. | 4 | 4 |
| EPGM8 PGM Outputs | PGM outputs of EPGM8 - hardwired PGM output expansion module. | 8 | 8 |
| EPGM1 PGM Outputs | PGM outputs of EPGM1 - hardwired zone and PGM output expansion module. | 2 | 4 |
| Wireless PGM Outputs | Non-physical PGM outputs automatically created by connected wireless devices. | 2* | 64** |

^{* -} Depends on the connected wireless device.

For PGM output wiring diagram, please refer to 2.3.6. Relay Finder® 40.61.9.12 with Terminal Socket 95.85.3.

18.1. PGM Output Numbering

The PGM output numbers ranging from C1 through C12 are permanently reserved for on-board PGM outputs even if EPGM8 module mode is disabled. The C13-C76 PGM output number are automatically assigned in the chronological order to the devices connected to the system: EPGM1 modules and wireless devices.

18.2. PGM Output Expansion

For additional electrical appliance connection, the number of PGM outputs can be expanded by:

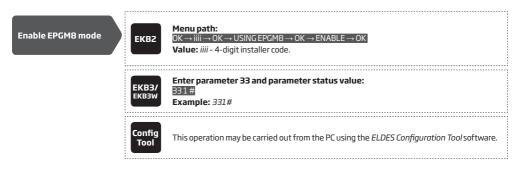
- connecting EPGM8 hardwired PGM output expansion module. (for more details on technical specifications and installation, please refer
 to the latest user manual of the device located at www.eldes.lt/download).
- connecting EPGM1 hardwired zone and PGM output expansion module (for more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download).
- pairing the wireless devices (see 19. WIRELESS DEVICES)

The maximum supported PGM output number is 76

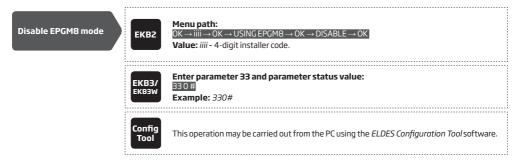
18.2.1. EPGM8 Mode

EPGM8 is an expansion module, which expands the system with 8 additional hardwired PGM outputs. For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download

Once the EPGM8 module is installed, the EPGM8 mode must be enabled.

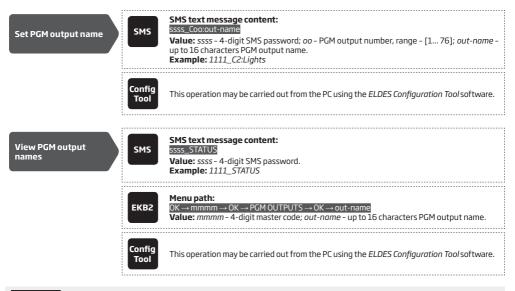


^{** -} Available only if no EPGM1 PGM outputs are present.



18.3. PGM Output Names

Each PGM output has a name that can be customized by the user. Typically, the name specifies a device type connected to a determined PGM output, for **Example:** Lights. The name can be used instead of PGM output number when controlling the PGM output by SMS text message. By default, the PGM output names are: C1 - Controll1, C2 - Controll2, C3 - Controll3, C4 - Controll4 etc.



ATTENTION: Space, colon, semi-colon characters, parameter names and/or values, such as PSW, STATUS, ON, OFF etc. are NOT allowed in PGM output names.

18.4. Enabling and Disabling PGM Outputs

By default, all PGM outputs are disabled and cannot be turned ON or OFF before they are enabled. To enable/disable a certain PGM output, please refer to the following configuration method.





This operation may be carried out from the PC using the ELDES Configuration Tool software.

18.5. Turning PGM Outputs ON and OFF

By default, all PGM outputs are turned OFF. To instantly turn ON/OFF an individual PGM output and set its state to ON/OFF when the system starts-up, please refer to the following configuration methods.

Turn ON PGM output/ Set PGM output startup state as ON

SMS

SMS text message content:

ssss_Coo:ON or ssss_out-name:ON

Value: ssss - 4-digit SMS password; oo - PGM output number, range - [1... 76]; out-name up to 16 characters PGM output name.

Example: 1111_Lights:ON

EKB2

Menu path:

 $OK \rightarrow mmmm \rightarrow OK \rightarrow PGM OUTPUTS \rightarrow OK \rightarrow out-name \rightarrow ON \rightarrow OK$

Value: mmmm - 4-digit master code; out-name - up to 16 characters PGM output name.

EKB3/ EKB3W

Enter parameter 61, PGM output number and parameter status value:

61 oo 1 #

Value: oo - PGM output number, range - [01... 76].

Example: 61031#



This operation may be carried out from the PC using the ELDES Configuration Tool software.



This operation may be carried out from the wireless keyfob if pre-assigned using the PC running ELDES Configuration Tool software.

Turn OFF PGM output/ Set PGM output startup state as OFF



SMS text message content:

ssss_Coo:OFF or ssss_out-name:OFF

Value: ssss - 4-digit SMS password; oo - PGM output number, range - [1... 76]; out-name up to 16 characters PGM output name.

Example: 1111_C2:OFF



Menu path:

 $OK \rightarrow mmmm \rightarrow OK \rightarrow PGM OUTPUTS \rightarrow OK \rightarrow out-name \rightarrow OFF \rightarrow OK$

Value: mmmm - 4-digit master code; out-name - up to 16 characters PGM output name.

EKB3/ EKB3W

Enter parameter 61, PGM output number and parameter status value:

61 oo 0 #

Value: oo - PGM output number, range - [01... 76].

Example: 61020#



This operation may be carried out from the PC using the ELDES Configuration Tool software.



This operation may be carried out from the wireless keyfob if pre-assigned using the PC running ELDES Configuration Tool software.

To instantly turn ON an individual PGM output for a determined time period and automatically turn it OFF when the time period expires, please refer to the following configuration method.

Turn ON PGM output for time period



SMS text message content:

ssss_Coo:ON:hr.mm.sc<mark>or</mark>ssss_out-name:ON:hr.mn.sc

Value: ssss - 4-digit SMS password; oo - PGM output number, range - [1... 76]; out-name - up to 16 characters PGM output name; hr - hours, range - [00... 23]; mn - minutes, range [00... 59]; sc - seconds, range - [00... 59].

Example: 1111 C4:0N:10.15.35



This operation may be carried out from the wireless keyfob if pre-assigned using the PC running ELDES Configuration Tool software.

To instantly turn OFF an individual PGM output for a determined time period and automatically turn it ON when the time period expires, please refer to the following configuration method.

Turn OFF PGM output for time period



SMS text message content:

ssss_Coo:OFF:00.00.sc<mark>or</mark>ssss_out-name:OFF:hr.mn.sc

Value: ssss - 4-digit SMS password; oo - PGM output number, range - [1... 76]; out-name - up to 16 characters PGM output name; hr - hours, range - [00... 23]; mn - minutes, range - [00... 59]; sc - seconds, range - [00... 59].

Example: 1111_Lights:0FF:00.00.23



This operation may be carried out from the wireless keyfob if pre-assigned using the PC running $\it ELDES$ Configuration $\it Tool$ software.

When the PGM output is turned ON or OFF, the system will send a confirmation by SMS text message to the user phone number that the SMS text message was sent from.

NOTE: PGM output can be turned ON for a determined time period only when it is in OFF state

NOTE: PGM output can be turned OFF for a determined time period only when it is in ON state

NOTE: Multiple PGM outputs can be turned ON/OFF by a single SMS text message, Example: 1111_C1:ON C2:OFF Pump:ON C4:ON:00.20.25

NOTE: PGM output can be turned ON for a determined time period only when it is in OFF state

NOTE for EWK1/EWK2: Single EWK1/EWK2 keyfob button can be configured to carry out Partition selection and Control output/Output toggle/Output pulse actions. In such case the PGM output control action will be executed with a 3-second delay once the button is pressed and in case it is not followed within a 3-second period by a button with arm system or disarm system action assigned.

18.6. PGM Output Control by Event and Scheduler

The PGM outputs can automatically operate when a specific event occurs in the system and/or when the scheduled weekday and time comes.

PGM Output Actions

The automatic action of the determined PGM output can be set as follows:

- **Turn ON** Determines whether the PGM output is to be turned ON.
- Turn OFF Determines whether the PGM output is to be turned OFF.
- Pulse Determines whether the PGM output is to be turned ON or OFF for a set period of time in seconds based on the PGM output startup state set up.

System Events

The aforementioned PGM output action can be automatically carried out under the following events that have occurred in the system:

- System armed System is armed in a determined partition ranging from Partition 1 through 4 or any partition.
- System disarmed System is disarmed in a determined partition ranging from Partition 1 through 4 or any partition.
- Alarm begins Alarm begins in a determined partition ranging from Partition 1 through 4 or any partition.
- Alarm stops Alarm stops in a determined partition ranging from Partition 1 through 4 or any partition.
- **Temperature falls** Temperature falls below the set MIN value of a determined temperature sensor 1-8.
- **Temperature rises** Temperature rises above the set MAX value of a determined temperature sensor 1-8.
- **Zone violated** A determined zone ranging from Z1 through Z76 is violated.
- Zone restored A determined zone ranging from Z1 through Z76 is restored.
- **Scheduler starts** Operates based on Start Time of a selected scheduler 1-16.
- **Scheduler ends** Operates based on End Time of a selected scheduler 1-16.

The user can also set a custom text, which will be sent by SMS text message to user phone number when the automatic PGM output action is carried out.

Schedulers

The system supports up to 16 schedulers that allow the PGM outputs to operate according to the day of the week and time. When the scheduler, which includes the set weekday and time, is selected, the PGM output will operate according to it. Each scheduler includes the following parameters:

- Always The scheduler is not in use.
- At specified time Determines whether weekday and time settings are enabled:
 - Start Time Determines the point in time when the PGM output action can be initiated for Scheduler starts event.
 - End Time Determines the point in time when the PGM output action can be initiated for Scheduler ends event
 - On weekdays Determines days in week when the PGM output action is valid.

Additional Conditions

Additional condition narrows down the chances for a determined automatic PGM output operation to be carried out. If this feature is enabled, the PGM output will become dependent on one more system event that must be occurred prior or must occur after the aforementioned system event. The PGM output will not operate until the chain of system events meets the set values:

- System armed System is armed in a determined partition ranging from 1 to 4 or any partition.
- **System disarmed** System is disarmed in a determined partition ranging from 1 to 4 or any partition.
- Zone violated A determined zone ranging from Z1 to 76 is violated.
- Zone restored A determined zone ranging from Z1 to Z76 is restored.

Example: PGM output C1 is set to be turned ON when zone Z6 is violated. The additional condition feature is enabled and set to allow this action to be carried out only if system's Partition 2 is disarmed. It means that the PGM output C1 will be turned ON when zone Z6 is violated, but only if system's Partition 2 is disarmed.

Manage PGM output control by event & scheduler



This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: If the date and time are not set, the system will NOT be able to automatically control the PGM outputs. For more details on how to set date and time, please refer to **9. DATE AND TIME**.

NOTE: When both - a system event is determined and a scheduler is selected, the PGM output will operate only if the determined event has occurred in the system during the scheduled time period.

NOTE: When PGM output action is selected as pulse, the PGM output will turn ON or turn OFF for a set period of time based on the PGM output state set up (ON or OFF) for system startup.

18.7. Wireless PGM Output Type Definitions

- Output Operates as normal PGM output that can be controlled by the user or automatically by event and scheduler. Normally, this
 type is used for any device or relay.
- Siren Operates as siren output that automatically activates during alarm. Typically, this type is used for bell/siren connected to EW2 wireless device.

Set output type for individual wireless PGM output



This operation may be carried out from the PC using the ELDES Configuration Tool software.

19. WIRELESS DEVICES

ESIM364 system has a built-in wireless module for system extension capabilities. The wireless module easily allows the user to pair up to 32 ELDES-made wireless devices with the system. This includes the following:

- EWP2 wireless PIR sensor (motion detector).
- EWD2 wireless magnetic door contact/shock sensor/flood sensor.
- EWS3 wireless indoor siren..
- EWS2 wireless outdoor siren.
- EWK1 and EWK2/EWK2A wireless keyfob.
- EKB3W wireless keypad.
- EW2 wireless zone and PGM output expansion module.
- EWF1/EWF1CO wireless smoke detector.
- EWF1CO wireless smoke and CO detector.
- EWR2 wireless signal repeater.
- EWM1 wireless power socket.

For more details on technical specifications and installation of the wireless devices, please refer to **RADIO SYSTEM INSTALLATION AND SIGNAL PENETRATION** manual and the latest user manual of the wireless device located at www.eldes.lt/download

The wireless devices can operate at a range of up to 30m (98.43ft) from the alarm system unit while inside the building and at up to 150m (492.13ft) range in open areas. The wireless connection is two-way and operates in one of four available channels in ISM868 (EU version) / ISM915 (US version) non-licensed band.

The communication link between the wireless device and the alarm system is constantly supervised by a configurable self-test period, known as Test Time. When the wireless device is switched ON, it will initiate the Test Time transmission to the system within its wireless connection range. In order to optimize battery power saving of the wireless device, the Test Time periods vary by itself while the device is switched ON, but still unpaired. When the alarm system is switched OFF or if the wireless device is unpaired or removed the Test Time period of the wireless device is as follows (non-customizable):

- EKB3W, EW2, EWP2, EWS2, EWS3, EWF1, EWF1CO, EWM1:
 - First 360 attempts after the device startup (reset) every 10 seconds.
 - The rest of attempts every 1 minute.
- EWD2:
 - First 360 attempts after the device startup (reset) every 10 seconds.
 - . The rest of attempts every 2 minutes.

Once the wireless device is paired, it will attempt to exchange data with ESIM364 system. Due to battery saving reasons, all ELDES wireless devices operate in sleep mode. The data exchange will occur instantly if the wireless device is triggered (zone alarm or tamper alarm) or periodically when the wireless device wakes up to transmit the supervision signal, based on Test Time value, to the system as well as to accept the queued up command (if any) from the system. By increasing the Test Time period, EWS2/EWS3 siren response time will decrease. Example: The alarm occurred at 09:15:25 and the system queued up the command for EWS3 siren to start sounding. By default, Test Time value of EWS3 siren is 7 seconds, therefore EWS2 siren will sound at 09:15:32.

By default, the Test Time period is as follows (customizable):

- EKB3W: every 60 seconds.
- EW2, EWP2, EWF1, EWF1CO, EWD2: every 30 seconds.
- . EWM1: every 20 seconds...
- EWS2, EWS3: every 7 seconds.

To set a different Test Time value, please refer to the following configuration method.

Set custom Test Time



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: Test Time affects the wireless device pairing process due to the alarm system listening for the incoming data from the wireless device. The system pairs with the wireless device only when the first data packet is received.

NOTE for EKB3W: In comparison with other ELDES wireless devices, EKB3W keypad features some exceptions regarding the wireless communication. For more details on EKB3W keypad wireless communication and back-light timeout, please refer to 19.5.3. Wireless Communication, Sleep Mode and Back-light Timeout.

19.1. Pairing, Removing and Replacing Wireless Device

Wireless device management can be easily and conveniently carried out using the graphical interface of *ELDES Configuration Tool* software. If you intend to manage the wireless devices by SMS text massage, an 8-character wireless device ID code will be required in order to pair the device with the system or to remove it from the system. The wireless ID code is printed on a label, which can be located on the inner or outer side of the enclosure or on the printed circuit board (PCB) of the wireless device.

To pair a wireless device, please refer to the following configuration methods.

Pair wireless device with the system

SMS

SMS text message content:

ssss_SET:wless-id

Value: ssss - 4-digit SMS password; wless-id - 8-character wireless device ID code.

Example: 1111_SET:535185D

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE FOR EWK1/EWK2/EWK2A: When paring EWK1/EWK2/EWK2A wireless keyfob, it is necessary to press several times any button on the device.

Once a wireless device is paired, it occupies one of 32 available wireless device slots and the system adds single or multiple wireless zones and wireless PGM outputs depending on the wireless device model.

To remove a wireless device, please refer to the following configuration methods.

Remove wireless device from the system

SMS

SMS text message content:

ssss_DEL:wless-id

Value: ssss - 4-digit SMS password; wless-id - 8-character wireless device ID code.

Example: 1111 DEL:535185D

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Once a wireless device is removed from the system, please restore its default parameters and remove the batteries from it.

To replace an existing wireless device with a new same model device, please refer to the following configuration method.

Replace wireless device



SMS text message content:

ssss_REP:wless-id<oldwl-id

Value: ssss – 4-digit SMS password; wless-id – 8-character wireless device ID code of the new device; oldwl-id - 8-character wireless device ID code of the old device.

Example: 1111_REP:535185D < 41286652

When a wireless device is successfully replaced with a new one, the configuration of the old wireless device remains.

ATTENTION: In order to correctly remove the wireless device from the system, the user must remove the device using SMS text message or *ELDES Configuration Tool* software and restore the parameters of the wireless device to default afterwards. If only one of these actions is carried out, the wireless device and the system will attempt to exchange data to keep the wireless connection alive. This leads to fast battery power drain on the battery-powered wireless device.

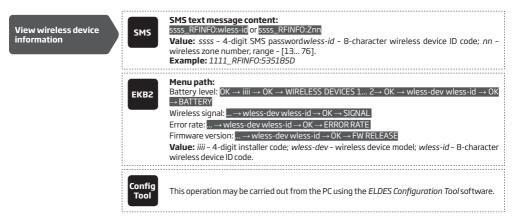
NOTE: If you are unable to pair a wireless device, please restore the wireless device's parameters to default and try again. For more details on how to restore the default parameters, please refer to the user manual provided along with the wireless device or visit www.eldes.lt/download to download the latest user manual.

19.2. Wireless Device Information

Once a wireless device is paired, the user can view the following information of a determined wireless device:

- Battery level (expressed in percentage).
- Wireless signal strength (expressed in percentage).
- Error rate (number of failed data transmission attempts in 10-minute period) indicated only in EKB2 keypad menu.
- Firmware version.
- Test Time period (expressed in milliseconds) of a wireless device indicated only in SMS text message reply.

To view the wireless device information, please refer to the following configuration methods.



The system supports up to 32 wireless devices. To view the number of unoccupied wireless device slots in the system, please refer to the following configuration methods



19.3. Wireless Signal Status Monitoring

If the wireless signal is lost due to poor signal strength or low battery power on a certain wireless device and does not restore within 1-hour period (by default; customizable), the system will cause an alarm. This event is identified as Wireless Signal Loss. By default, indicated as No wireless signal from wless-dev wless-id = 8-character wireless device model; wless-id = 8-character wireless device lD code; x = tamper number). The user will also be notified by SMS text message as soon as the wireless signal is restored.

The default 1-hour period for wireless signal loss detection is a EN 50131-1 Grade 2 requirement. However, a custom wireless signal loss timeout can be set up that must be at least 3 times longer than the longest Test Time period of a wireless device currently paired with the system. In addition, ELDES Configuration Tool software indicates a timer of the last Test Time signal delivered by a paired and unpaired wireless device. The software will also warn you if the delivery of the Test Time signal is delayed for a time period 3 times longer than the Test Time period of a paired wireless device. In case the Test Time signal delivery of an unpaired wireless device is delayed for more than 1,5 minute, a warning will follow and the icon of such wireless device will be removed from the software's interface in 10 seconds.

To set a custom wireless signal loss timeout and manage the wireless signal loss/restore notifications, please refer to the following configuration method.

Set custom wireless signal loss timeout

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable wireless signal loss/restore notification



User phone number: OK → iiii → OK → SMS MESSAGES 2 → OK → WLESS SIGN LOSS EV → OK → GSM USER 1... 10 → OK → DISABLE → OK

SMS text message to all users simultaneously: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK **Value:** iiii -4-diqit installer code.

EKB3/ EKB3W Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 18 up 0 #

SMS text message to all users simultaneously: 21 18 0 #

SMS delivery report: 55 18 0 #

Value: up - user phone number slot, range - [01...10].

Example: 2518030#



EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable wireless signal loss/restore notification

Menu path:

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS$ MESSAGES 2 → $OK \rightarrow WLESS$ SIGN LOSS EV → $OK \rightarrow GSM$ USER 1... $10 \rightarrow OK \rightarrow ENABLE \rightarrow OK$

SMS text message to all users simultaneously: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS TO AL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK **Value**: *iiii* - 4-diqit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 18 up 1 #

SMS text message to all users simultaneously: 21 18 1 #

SMS delivery report: 55 18 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2518031#



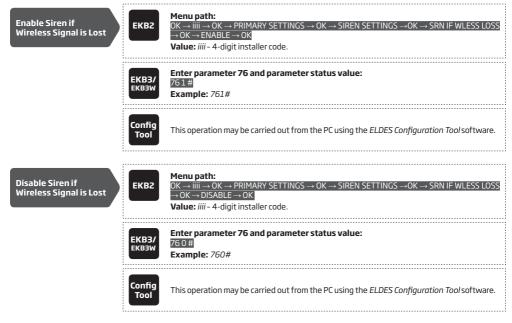
This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: Once a certain tamper is disabled, the system will NOT deliver any SMS text message regarding the physical tamper violation nor wireless signal loss or restore. For more details on how to manage the tampers, please refer to **16. TAMPERS**.

ATTENTION: The system will NOT deliver any text message regarding wireless signal loss or restore while the physical tamper violation is in progress.

19.4. Disabling and Enabling Siren if Wireless Signal is Lost

If a wireless device loses its wireless signal for 1 hour (by default) or longer, the system will send notification by SMS text message to user phone number and activate the siren/bell. By default, the siren will not be activated when wireless signal is lost. To enable/disable this feature, please refer to the following configuration methods.



19.5. EKB3W - Wireless LED Keypad

Main features:

- Alarm system arming and disarming (see 12.5. EKB3W Keypad and User/Master Code).
- Arming and disarming in Stay mode (see 15. STAY MODE).
- System parameter configuration (see 5. CONFIGURATION METHODS).
- PGM output control (see 18.4. Turning PGM Outputs ON and OFF).
- Visual indication by LED indicators (see 19.5.1. LED Functionality).
- Audio indication by built-in buzzer.
- Keypad partition switch (see 23.3. Keypad Partition and Keypad Partition Switch).

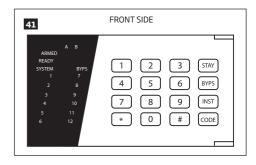
For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download

19.5.1. LED Functionality

| ARMED | Steady ON - alarm system is armed / exit delay in progress; flashing - Configuration mode activated |
|--------|---|
| READY | Steady ON - system is ready - no violated zones and tampers |
| SYSTEM | Steady ON - system faults; flashing - violated high-numbered zone (-s) |
| BYPS | Steady ON - zone bypass mode |
| 1-12 | Steady ON - violated zone Z1-Z12 |

19.5.2. Keys Functionality

| [BYPS] | Bypass violated zone |
|--------|---|
| [CODE] | System fault list / violated high-numbered zone indication / violated tamper indication |
| [*] | Clear typed in characters |
| [#] | Confirm (enter) command |
| [0][9] | Command typing |
| [1][2] | Keypad partition switch |
| [STAY] | Manual system arming in Stay mode |
| [INST] | 1st character for Configuration mode activation/ deactivation command |



19.5.3. Wireless Communication, Sleep Mode and Back-light Timeout

Once the wireless device is paired, it will attempt to exchange data with ESIM364 system. The communication process follows this pattern:

- Due to battery power saving reasons, most of the time EKB3W keypad operates in sleep mode and periodically wakes up (by default every 60 seconds) to transmit the supervision signal, identified as Test Time, to the ESIM364 system. However, when the keypad wakes
 up, it will NOT activate its buzzer and/or the LED indicators.
- When any EKB3W key is pressed, the keypad LED indicators and the back-light will activate for a set up period of time (by default 10 seconds), identified as Back-light Timeout. During the Back-light Timeout, the Test Time will automatically switch to 2 seconds period allowing to indicate system alarms, faults and arm/disarm process on the EKB3W keypad if it is assigned to the same partition as the one that is violated or being armed/disarmed (see 23. PARTITIONS).
- 3. The Back-light timeout will expire after 10 seconds (by default) of EKB3W idling. When the Back-light Timeout expires, the keypad will light OFF the LED indicators and the back-light and return to sleep mode. Meanwhile:
 - a) if a zone or tamper, which is of the associated EKB3W keypad, is violated, EKB3W will instantly wake up and initiate the Back-light Timeout. Meanwhile the keypad buzzer will emit short beeps and the LED indicators will light ON indicating the violated zone or tamper number.
 - b) if a zone or tamper, which is not of the associated EKB3W keypad, is violated, EKB3W keypad will NOT wake up and will NOT initiate the Back-light Timeout as well as the buzzer will NOT emit short beeps and the LED indicators will NOT light ON.

To set a different Back-light Timeout value, please refer to the following configuration method:





This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details and how to set a different Test Time value, please refer to ELDES Configuration Tool software.

NOTE: By default, the keypad zone and tamper is enabled, therefore a resistor supplied with the EKB3W keypad must be connected to the keypad zone terminal and the tamper switch must be properly pressed in when inserting the keypad into the holder. By disabling the keypad zone, the keypad tamper will disable as well (see 14.9. Enabling and Disabling Zones and 16. TAMPERS).

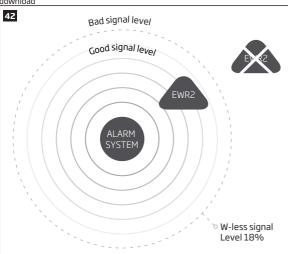
NOTE: To wake up the keypad it is highly recommended to press the [*] key in order not to enter any unnecessary character.

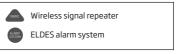
19.6. EWR2 - Wireless Signal Repeater

Main features:

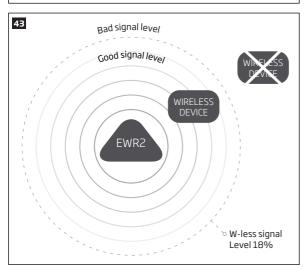
- Expands the wireless signal range (up to 30m (98.43ft) in premises; up to 150m (492.13ft) in open areas)
- LED indicator for data transmission indication.
- External and internal antenna.
- · Backup battery

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/



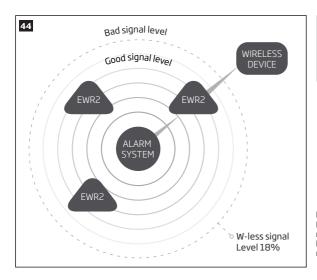


EWR2 begins expanding the signal range for wireless devices if the certain conditions are met. In order for EWR2 to function properly, the wireless signal level between EWR2 and ELDES alarm system must be at least 18%.





In order for EWR2 to start expanding the signal range of a wireless device, the wireless signal level between EWR2 and a wireless device must be at least 18%.





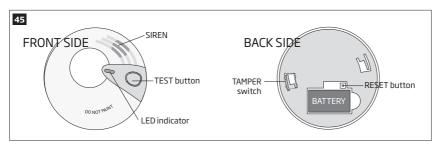
If more then one repeater is connected to Eldes alarm system at a time, the one that receives the strongest signal from a wireless device, will be used to expand it's signal range.

19.7. EWF1/EWF1CO - Wireless Smoke/CO Detector

Main features:

- Photoelectric sensor for slow smouldering fires
- TEST button
- · Non-radioactive technology for environmental friendly
- · High and stable sensitivity
- · Quick fix mounting plate for easy installation
- · LED operation indicator
- Built-in speaker for audio alarm indication
- Auto-reset when smoke/CO clears

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download



19.7.1. Interconnection

The interconnection feature automatically links all wireless smoke/CO detectors that are paired with the alarm system. When any EWF1/EWF1CO detects smoke or carbon monoxide (CO), it will sound the built-in siren and send the signal to the alarm system resulting in an instant alarm followed by built-in siren sound caused by the rest of EWF1/EWF1CO wireless smoke/CO detectors. EWF1/EWF1CO device that detected smoke/CO will auto-reset when the smoke/CO clears, while the rest of EWF1/EWF1CO smoke/CO detectors will continue to sound in accordance with the set time period (by default - 30 seconds).

By default, the interconnection feature is enabled and the siren alarm duration is 30 seconds. To manage these parameters, please refer to the following configuration methods.

Disable interconnection



Menu nath

OK → iiii → OK → PRIMARY SETT INGS → OK → SIREN SETTINGS → OK → EWF1 SIREN INTERC. → OK → DISABLE → OK

Value: iiii - 4-digit installer code.



Enter parameter 50 and parameter status value:

500#

Example: 500#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable interconnection



Menu path:

OK → iiii → OK → PRIMARY SETT INGS → OK → SIREN SETTINGS → OK → EWF1 SIREN INTERC. → OK → ENABLE → OK

Value: iiii - 4-digit installer code.



Enter parameter 29 and parameter status value:

501#

Example: 501#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set EWF1/EWF1C0 siren alarm duration

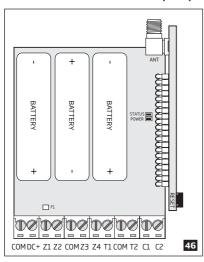


This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: The maximum supported EWF1/EWF1CO siren alarm duration is 255 seconds (4 mins. 15 secs.) even if the system's alarm duration value is longer.

NOTE: System's alarm duration has a higher priority against the EWF1/EWF1CO siren alarm duration, therefore EWF1/EWF1CO will sound as long as the system's alarm duration set up, unless the set up value for EWF1/EWF1CO siren alarm duration is shorter.

19.8. EW2 - Wireless Zone and PGM Output Expansion Module



Main features

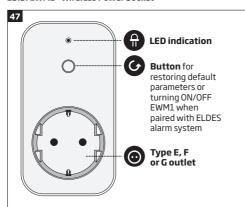
- 4 zone terminals
- 2 open-collector outputs.
- · Battery or externally-powered.
- Compatible with any third-party wired sensor or siren.

EW2 is a wireless device intended to expand ELDES alarm system capabilities by providing wireless connection access to any third-party wired devices. EW2 comes equipped with 4 zone terminals designed for wired digital sensor connection, such as magnetic door contact, motion detector etc. In addition, the 2 open-collector outputs on board allow to connect any wired siren as well as to connect and control any electrical appliance, such as gates, lights, watering etc. The device can operate by powering it either using an external power supply or 3 x 1,5V AA type alkaline batteries on board. Once the external power supply is disconnected, EW2 will automatically switch to battery power.

The maximum number of EW2 devices that can be paired with the system depends on the number of the existing zones in system's configuration. In case no keypad zones, no EPGM1 zones, no virtual zones and no other wireless zones exist, the system will support up to 16 EW2 devices.

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/ download

19.9. EWM1 - Wireless Power Socket



Main features:

- Control your household equipment remotely by wireless keyfob, keypad, ELDES Cloud Services or automatically by scheduled time or system event
- Compatible with any 230V electrical appliance
- View real-time, daily and monthly power consumption report
- Fault indication and protection: circuit thermal, overvoltage, overcurrent, undervoltage, relay fault indication.

EWM1 is a wireless device intended to expand ELDES alarm system capabilities by providing a wireless connection access to any 230V electrical appliance, such as lights, air-conditioner, watering equipment etc. By plugging the appliance into the electrical outlet of EWM1, the user gains a possibility to control it by wireless keyfob, keypad, scheduled time or a specific system event. In addition, EWM1 lets you monitor the power consumption and view the reports. In addition, the for safety and protection purposes EWM1 will prevent from powering up the electrical appliance if certain fault conditions are present (see 29. INDICATION OF SYSTEM FAULTS) In order to start using EWM1, it has to be paired with ELDES alarm system using ELDES Configuration Tool software or by sending a corresponding SMS text message to ELDES alarm system.

It is possible to pair up to 32 EWM1 devices with the system at a time. The maximum wireless connection range is 150m (492.13ft) (in open areas).

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download.

To monitor real-time power consumption value , view today's or monthly power consumption reports or reset the power consumption counter, please refer to the following configuration methods.

View power consumption reports

SMS

SMS text message content:

ssss_EWM1INFO

Value: ssss - 4-digit SMS password. Example: 1111_EWM1INFO



Menu path:

Real-time power consumption: <code>OK</code> \to mmmm \to <code>OK</code> \to PGM <code>OUTPUTS</code> \to <code>OK</code> \to out-name <code>OK</code> \to REAL TIME ENERGY

Today's power consumption: ... \rightarrow out-name \rightarrow OK \rightarrow TODAY ENERGY

Monthly power consumption: ... \rightarrow out-name \rightarrow OK \rightarrow MONTHLY ENERGY

Value: mmmm – 4-digit master code; out-name - PGM output name associated with a certain EWM1 device.

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Reset power consumption counter for individual EWM1 device



SMS text message content:

ssss_EWM1RESET:out-name

Value: ssss - 4-digit SMS password; *out-name* - PGM output name associated with a certain

EWM1 device.

Example: 1111_EWM1RESET:Controll14



Menu path:

OK ightarrow mmmm ightarrow OK ightarrow PGM OUTPUTS ightarrow OK ightarrow out-name ightarrow OK ightarrow RESET COUNTER ightarrow OK ightarrow YES ightarrow OK

 ${f Value:}\ mmmm$ - 4-digit master code; out-name - PGM output name associated with a certain EWM1 device.



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Reset power consumption counter for all EWM1 devices simultaneously



SMS text message content:

ssss_EWM1RESET:ALL

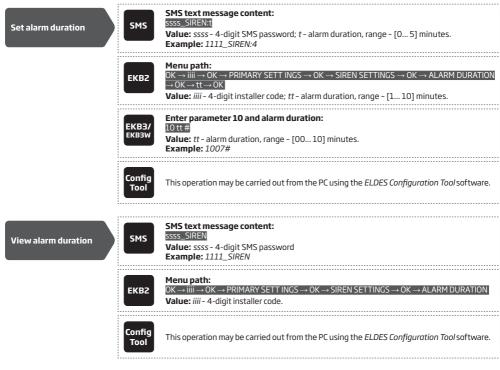
Value: ssss - 4-digit SMS password. Example: 1111_EWM1RESET:ALL

NOTE: Real-time power consumption value is NOT included in the power consumption report requested by SMS text message.

86

20. WIRED SIREN/BELL

When the system is in alarm state, the siren/bell will sound until the set time (by default -1 minute) expires or until the system is disarmed. To set the alarm duration, please refer to the following configuration methods.



For siren/bell wiring diagram, please refer to 2.3.3. Siren

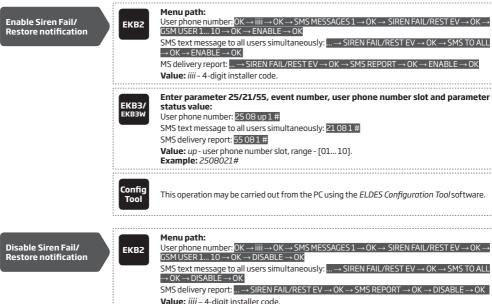
NOTE: The maximum supported alarm duration is 127 minutes that can be set up using ELDES Configuration Tool software only. "0" value disables the siren/bell.

NOTE: Due to battery power saving reasons, the wireless siren will sound for up to 6 minutes max. regardless of the set up alarm duration value when it is longer than 6 minutes

20.1. BELL Output Status Monitoring

The system constantly supervises the BELL output. If the siren/bell is disconnected/cut-off, the system may send the notification by SMS text message (by default- disabled) to the listed user phone number and indicate system fault condition on the keypad (see 29. INDI-CATION OF SYSTEM FAULTS). Once the bell/siren is connected/fixed, the system may notify the listed user by SMS text message (by default - disabled) and the keypad will no longer indicate system fault. Please, note that in order to use this feature, the resistors must be connected to BELL output (see 2.3.3. Siren).

By default, the notification by SMS text message regarding the BELL output status is disabled. To enable/disable this notification, please refer to the following configuration methods.



Value: iiii - 4-digit installer code.

EKB3/ status value: **EKB3M** User phone number: 25 08 up 0 #

Enter parameter 25/21/55, event number, user phone number slot and parameter

SMS text message to all users simultaneously: 21 08 0 #

SMS delivery report: 55 08 50 #

Value: up - user phone number slot, range - [01... 10].

Example: 2508040#

Config This operation may be carried out from the PC using the ELDES Configuration Tool software. Tool

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to 27. SYSTEM NOTIFICATIONS.

20.2. Bell Squawk

If enabled, the siren/bell indicates the completed system arming and disarming process. After the system is successfully armed, the siren/ bell will emit 2 short beeps and 1 long beep after the system is disarmed. To enable/disable the Bell Squawk feature, please refer to the following configuration methods.

EKB2 **Enable Bell Squawk**

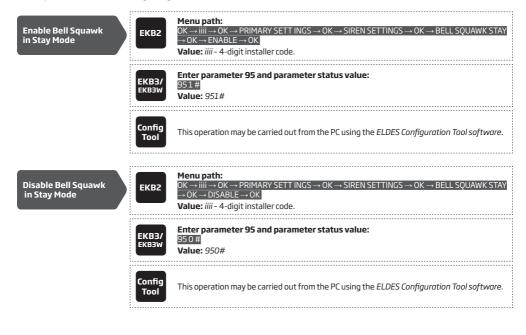
Menu path: OK → iiii → OK ightarrow PRIMARY SETT INGS ightarrow OK ightarrow SIREN SETTINGS ightarrow OK ightarrow BELL SQUAWK ightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code

| | EKB3/ EKB3W | Enter parameter 29 and parameter status value: 291# Example: 291# |
|---------------------|----------------|---|
| | Config Tool | This operation may be carried out from the PC using the ELDES Configuration Tool software. |
| Disable Bell Squawk | ЕКВ2 | Menu path: OK → iiii → OK → PRIMARY SETT INGS → OK → SIREN SETTINGS → OK → BELL SQUAWK → OK → DISABLE → OK Value: iiii - 4-digit installer code. |
| | EKB3/ EKB3W | Enter parameter 29 and parameter statusvalue: 290# Example: 290# |
| | Config Tool | This operation may be carried out from the PC using the ELDES Configuration Toolsoftware. |

20.3. Bell Squawk in Stay Mode

If enabled, the Bell Squawk will be available when arming/disarming the system in Stay mode (see **15. STAY MODE**). To enable/disable this feature, please refer to the following configuration methods



20.4. Indication by EWS2 - Wireless Outdoor Siren Indicators

When enabled, the built-in LED indicators of EWS2 wireless outdoor siren will flash during the alarm. To enable/disable this feature, please refer to the following configuration methods.

Enable EWS2 LED indication



Menu path:

OK \to iiii \to OK \to PRIMARY SETT INGS \to OK \to SIREN SETTINGS \to OK \to EWS2 LED \to OK - ENABLE \to OK

Value: iiii - 4-digit installer code.



Enter parameter 29 and parameter status value:

881#

Example: 881#



This operation may be carried out from the PC using the \textit{ELDES Configuration Tool} software.

Disable EWS2 LED indication



Menu path:

OK ightarrow IIII ightarrow OK ightarrow SIREN SETTINGS ightarrow OK ightarrow EWS2 LED ightarrow OK ightarrow DISABLE ightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 29 and parameter status value:

880#

Example: 880#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

20.5. Indication by EWS3 - Wireless Indoor Siren Indicators

When enabled, the built-in LED indicators of EWS3 wireless indoor siren will flash during the alarm. In the event of burglary, 24-hour or tamper alarm, EWS3 will flash the blue LED indicators, while in case of a fire alarm, the device can flash the red LED indicator. To enable/disable these features, please refer to the following configuration methods.

Enable EWS3 LED indication



Burglary/24-hour/tamper alarm LED: $OK \rightarrow IIII \rightarrow OK \rightarrow PRIMARY SETT INGS \rightarrow OK \rightarrow SIREN SETTINGS → OK → EWS3 ALARM LED → OK → ENABLE → OK$

Fire alarm ... \rightarrow SIREN SETTINGS \rightarrow OK \rightarrow EWS3 FIRE LED \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 94/93 and parameter status value:

Burglary/24-hour/tamper alarm LED: 941#

Fire alarm LED: 931# Example: 931#

Config Tool

EKB2

This operation may be carried out from the PC using the *ELDES Configuration Tool software*.

Disable EWS3 LED indication

Menu path:

Burglary/24-hour/tamper alarm LED: $OK \rightarrow IIIII \rightarrow OK \rightarrow PRIMARY SETT INGS \rightarrow OK \rightarrow SIREN SETTINGS \rightarrow OK \rightarrow EWS3 ALARM → OK → DISABLE → OK$

Fire alarm LED: ... \rightarrow SIREN SETTINGS \rightarrow OK \rightarrow EWS3 FIRE LED \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/

Enter parameter 94/93 and parameter status value:

Burglary/24-hour/tamper alarm LED: 94 0 #

Fire alarm LED: 930# Example: 940#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

21. BACKUP BATTERY, MAINS POWER STATUS MONITORING AND MEMORY

21.1. Backup Battery Status Monitoring

The system may comes equipped with a backup battery maintaining power supply of the system when the mains power is temporally lost. The implemented feature allows the system to perform a self-test on the backup battery and notify the user by SMS text message as well as to indicate system fault by the keypad (see 29. INDICATION OF SYSTEM FAULTS) if:

- battery has failed and requires replacement battery resistance is 2Ω or higher; self-tested every 24 hours.
- battery is dead or missing battery is not present or battery voltage is below 5V; self-tested every 1 minute.
- battery power is running low battery voltage is 10.5V or lower; constantly self-tested.

By default, all notifications regarding the backup battery status are enabled. To disable/enable a determined backup battery notification, please refer to the following configuration methods.

Disable Battery Failed notification



lonu nath

User phone number: $OK \rightarrow IIII \rightarrow OK \rightarrow SMS$ MESSAGES $1 \rightarrow OK \rightarrow BATTERY$ FAILED $\rightarrow OK \rightarrow GSM$ USER $1...10 \rightarrow OK \rightarrow DISABLE \rightarrow OK$

SMS text message to all users simultaneously: ... ightarrow BATTERY FAILED ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow DISABLE ightarrow OK

SMS delivery report: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK **Value:** *iiii* - 4-digit installer code.

value. IIII - 4-uigit ilistallei ti



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 05 up 0 #

SMS text message to all users simultaneously: 21 05 0 #

SMS delivery report: 55 05 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2105010#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable Battery Failed notification



Menu path:

User phone number: OK → iiii → OK → SMS MESSAGES 1 → OK → BATTERY FAILED → OK → GSM USER 1... 10 → OK → ENABLE → OK

SMS text message to all users simultaneously: ... ightarrow BATTERY FAILED ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow ENABLE ightarrow OK

SMS delivery report: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 05 up 1 #

SMS text message to all users simultaneously: 21 05 1 #

SMS delivery report: 55 05 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2505031#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable Battery Dead or Missing notification



Menu path:

User phone number: 0K → iiii → 0K → SMS MESSAGES 1 → 0K → BATTERY DEAD/MISS → 0K → GSM USER 1... 10 → 0K → DISABLE → 0K

SMS text message to all users simultaneously: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow SMS TO ALI \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code

EKB3/ **EKB3W** Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 06 up 0 #

SMS text message to all users simultaneously: 21 06 0 #

SMS delivery report: 55 06 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 5506070#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable Battery Dead or Missing notification EKB2

Menu path:

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS$ MESSAGES $1 \rightarrow OK \rightarrow BATTERY$ DEAD/MISS $\rightarrow OK$ \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS text message to all users simultaneously: \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow SMS REPORT

Value: iiii - 4-digit installer code

EKB3/ EKB3W Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 06 up 1 #

SMS text message to all users simultaneously: 21 06 1 #

SMS delivery report: 55 06 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 5506101#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable Low Battery notification

EKB2

Menu path:

 $\textbf{User phone number:} \ OK \rightarrow \textbf{iiii} \rightarrow \textbf{OK} \rightarrow \textbf{SMS MESSAGES} \ 1 \rightarrow \textbf{OK} \rightarrow \textbf{LOW BATTERY} \rightarrow \textbf{OK} \rightarrow \textbf{GSM}$ USER 1... $10 \rightarrow 0K \rightarrow DISABLE \rightarrow 0K$

SMS text message to all users simultaneously: ... → LOW BATTERY → OK → SMS TO ALL → OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow LOW BATTERY \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 25/21/55, event number, user phone number slot and parameter

status value:

User phone number: 25 07 up 0 #

SMS text message to all users simultaneously: 21 07 0 #

SMS delivery report: 55 07 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2107100#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable Low Battery notification

EKB2

Menu path:

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS MESSAGES 1$

USER 1... $10 \rightarrow 0K \rightarrow ENABLE \rightarrow 0K$

SMS text message to all users simultaneously:... → LOW BATTERY \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... → LOW BATTERY → OK → SMS REPORT → OK → ENABLE → OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 07 up 1 #

SMS text message to all users simultaneously: 21 07 1 #

SMS delivery report: 55 07 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2107021#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text massage transmission, please refer to 27. SYSTEM NOTIFICATIONS.

NOTE: In order to view the backup battery voltage, resistance,, please refer to Diagnostic Management feature available on ELDES Configuration Tool software.

21.2. Mains Power Status Monitoring

If the household electricity is unstable in the system installation area, the system may temporally lose its power supply and continue operating on the backup battery power. The system supervises the mains power and notifies the user by SMS text message as well as indicates system fault condition on the keypad (see 29. INDICATION OF SYSTEM FAULTS) when the mains power is lost. When the mains power restores, the system will notify the user by SMS text message and the keypad will no longer indicate system fault.

By default, system notification by SMS text message regarding mains power status is enabled. To disable/enable this notification, please refer to the following configuration methods.

Disable mains power loss/restore notification

EKB2

Menu path:

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS MESSAGES 1 \rightarrow OK$ GSM USER 1... $10 \rightarrow$ OK \rightarrow DISBLE \rightarrow OK

SMS text message to all users simultaneously: ... \rightarrow MAIN POWER L/R \rightarrow OK \rightarrow SMS TO ALL \rightarrow $OK \rightarrow DISABLE \rightarrow OK$

SMS delivery report: ... \rightarrow MAIN POWER L/R \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 04 up 0 #

SMS text message to all users simultaneously: 21 04 0 #

SMS delivery report: 55 04 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2504050#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable mains power loss/restore notification



Menu path:

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS$ MESSAGES 1 GSM USER 1... $10 \rightarrow 0K \rightarrow ENABLE \rightarrow 0K$

SMS text message to all users simultaneously: $OK \rightarrow ENABLE \rightarrow OK$

SMS delivery report: ... \rightarrow MAIN POWER L/R \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 04 up 1 #

SMS text message to all users simultaneously: 21 04 1 #

SMS delivery report: 55 04 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2514091#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

By default, mains power loss and restore delay are 30 and 120 seconds respectively. To set a different mains power loss and restore delay duration, please refer to the following configuration methods.

Set mains power loss delay



Menu path:

 $\mathsf{OK} o \mathsf{PRIMARY}$ SETT INGS o OK o Main Power Status o OK o Loss Delay o

OK → iii → OK -OK → IIIII → OK

Value: *iiii* - 4-digit installer code; *IIIII* - mains power loss delay duration, range - [0... 65535] seconds.



Enter parameter 70 and loss delay duration:

70 IIII #

Value: IIIII - mains power loss delay duration, range - [0... 65535] seconds.

Example: 7043#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set mains power restore delay



Menu path:

OK → IIII → OK → PRIMARY SETT INGS → OK → MAIN POWER STATUS → OK → RESTORE DELAY → OK → rrrrr → OK

Value: *iiii* - 4-digit installer code; *rrrrr* - mains power restore delay duration, range - [0... 65535] seconds.



Enter parameter 71 and restore delay duration:

71 rrrrr #

Value: rrrrr - mains power restore delay duration, range - [0... 65535] seconds. **Example:** 71150#

Config Tool

 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to 27. SYSTEM NOTIFICATIONS.

NOTE: In order to view mains power status and value, please refer to Diagnostic Management feature available on ELDES Configuration Tool software.

21.3. Memory

The configuration settings and event log records are stored in a built-in EEPROM memory, therefore even if the system is fully shut down, the configuration and event log remain. For more details regarding the event log, please refer to **28. EVENT AND ALARM LOG**.

22. GSM CONNECTION AND ANTENNA STATUS MONITORING

22.1. GSM Connection Status Monitoring

The system supervises the GSM connection every 10 minutes. When the GSM connection loss is detected, the system indicator NETW will light OFF and the system will attempt to restore the GSM connection. In case the system fails to restore the GSM connection within a 3-minute period (by default), the keypad will indicate the system fault condition (see 29. INDICATION OF SYSTEM FAULTS) and the system will continue the attempt to restore the GSM connection. In addition, the system may turn ON a determined PGM output to indicate the GSM connection loss fault (by default - disabled)...

Once the GSM signal restores, the system may notify the listed user by SMS text message (by default - disabled), the keypad will no longer indicate system fault and the determined PGM output will turn OFF (if set up).

By default, the notifications by SMS text message regarding GSM signal loss is disabled. To enable/disable this notification, please refer to the following configuration methods.

Enable GSM Connection Failed notification ЕКВ2

Menu path:

User phone number: OK → iiii → OK → SMS MESSAGES 2 → OK → GSM CONNECT FAILED → OK → GSM USER 1... 10 → OK → ENABLE → OK

SMS text message to all users simultaneously: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK **Value:** iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 11 up 1 #

SMS text message to all users simultaneously: 21 11 1 #

SMS delivery report: 55 11 1 #

Value: *up* - user phone number slot, range - [01... 10].

Example: 21114091#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable GSM Connection Failed notification EKB2

Menu path:

User phone number: OK → IIII → OK → SMS MESSAGES 2 → OK → GSM CONNECT FAILED → OK → GSM USER 1... 10 → OK → DISABLE → OK

SMS text message to all users simultaneously: $... \rightarrow$ GSM CONNECT FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK **Value**: *iiii* - 4-digit installer code.

EKB3/

Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 11 up 0 #

SMS text message to all users simultaneously: 21 11 0 #

SMS delivery report: 55 11 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 21114020#

Config Tool

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

By default, the PGM output for GSM signal loss indication is not set. To set the PGM output and delay duration for GSM signal loss indication, please refer to the following configuration method.

Manage GSM signal loss indication by PGM output



This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text massage transmission, please refer to 27. SYSTEM NOTIFICATIONS.

22.2. GSM Antenna Status Monitoring

The system constantly monitors the GSM/GPRS antenna status. If the GSM/GPRS antenna is disconnected/cut-off, the system may send notification by SMS text message (by default - disabled) to the listed user and the keypad will indicate system fault condition (see **29. INDICATION OF SYSTEM FAULTS**). Once the antenna is connected/fixed, the system may notify the user by SMS text message (by default - disabled) and the keypad will no longer indicate system fault.

By default, the notification by SMS text message regarding the GSM/GPRS antenna status is disabled. To enable/disable this notification, please refer to the following configuration methods.

Enable GSM/GPRS Antenna Fail/Restore notification



Menu path:

User phone number: $OK \rightarrow IIII \rightarrow OK \rightarrow SMS$ MESSAGES $2 \rightarrow OK \rightarrow GSM$ ANT FAIL/REST $\rightarrow OK \rightarrow GSM$ USER 1... $10 \rightarrow OK \rightarrow ENABLE \rightarrow OK$

SMS text message to all users simultaneously: ... \rightarrow GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 12 up 1 #

SMS text message to all users simultaneously: 21 11 1 #

SMS delivery report: 55 11 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2512031#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable GSM/GPRS Antenna Fail/Restore notification



Menu path:

User phone number: $0K \rightarrow iiii \rightarrow 0K \rightarrow SMS$ MESSAGES $2 \rightarrow 0K \rightarrow GSM$ ANT FAIL/REST $\rightarrow 0K - GSM$ USER 1... $10 \rightarrow 0K \rightarrow DISABLE \rightarrow 0K$

SMS text message to all users simultaneously: ... \rightarrow GSM ANT FAIL/REST \rightarrow 0K \rightarrow SMS TO ALL \rightarrow 0K \rightarrow DISABLE \rightarrow 0K

SMS delivery report: ... ightarrow GSM ANT FAIL/REST ightarrow OK ightarrow SMS REPORT ightarrow OK ightarrow DISABLE ightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

User phone number: 25 12 up 0 #

SMS text message to all users simultaneously: 21110#

SMS delivery report: 55 11 0 #

Value: us - user phone number slot, range - [01...10].

Example: 2512030#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to **27. SYSTEM NOTIFICATIONS.**

23. PARTITIONS

ESIM364 system comes equipped with a partitioning feature that can divide the alarm system into four independently controlled areas identified as Partition 1 through 4, which are all supervised by one alarm system unit. Partitioning can be used in installations where shared alarm system is more practical, such as a house and a garage or within a single multi-storey building. When partitioned, each system element, like zone, user phone number, keypad, user/master code, iButton key and wireless keyfob can be assigned to single or multiple partitions. The user will then be able to arm/disarm the system partition (-s) that the zones and arm/disarm method, except EKB2 keypad, are assigned to.

The following table reflects the values used for system element assignment to partitions by EKB2/EKB3/EKB3W keypad. A sum of values is used to assign the element to multiple partitions.

| Partition | Value |
|-------------|-------|
| Partition 1 | 1 |
| Partition 2 | 2 |
| Partition 3 | 4 |
| Partition 4 | 8 |

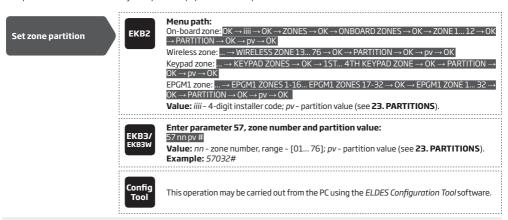
Example1: The user wants to assign a certain iButton key to Partition 4 only. According to the table value 8 reflects Partition 4. He would then have to enter value 8.

Example2: The user wants to assign a certain user code to Partition 2 and 3. According to the table value 2 reflects Partition 2, while value 4 reflects Partition 3, therefore 2 + 4 = 6. He would then have to enter value 6.

Example 3: The user wants to assign a certain zone to Partition 1, 3 and 4. According to the table value 1 reflects Partition 1, while values 4 and 8 reflect Partitions 3 and 4 respectively, therefore 1 + 4 + 8 = 13. He would then have to enter value 13.

23.1. Zone Partition

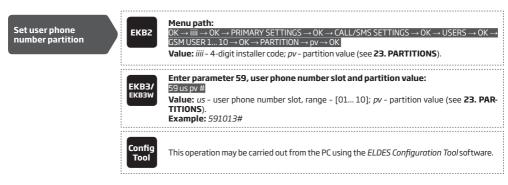
Zone partition determines which system partition (-s) the zone will operate in.



ATTENTION: Wireless siren EWS2/EWS3 siren will sound only if wireless zone of the siren is assigned to the same partition as the one that has been alarmed.

23.2. User Phone Number Partition

User phone number partition determines which system partition (-s) can be armed/disarmed from a certain user phone number by dialing system's phone number or sending an SMS text message.



23.3. Keypad Partition and Keypad Partition Switch

Keypad partition determines which system partition the keypad will operate in. To identify which partition the keypad is operating in:

- EKB2 Refer to partition name (by default PART1) indicated in home screen view.
- EKB3W/EKB3 (2-partition mode) Refer to the location of the illuminated indicator READY on the keypad. The indicator will be illuminated under section A or B, which represent Partition 1 and Partition 2 respectively.

EKB3 keypad can operate in the following modes:

- 2-partition mode This parameter determines whether EKB3 keypad can operate only in one of the first two system partitions allowing to arm/disarm them and switch the keypad partition using [1]... [2] keys. This mode is set up by default.
- 4-partition mode This parameter determines whether EKB3 keypad can operate in one of the four system partitions allowing to
 arm/disarm them, indicate arm/disarm status, partition state (alarmed/not alarmed) on [1]... [4] keys (see 32.1.2. EKB3 LED Keypad) and switch the keypad partition using [1]... [4] keys.

The keypad must be assigned to the same partition as the user/master code (see 23.4. User/Master Code Partition) in order to arm/disarm the system by the keypad. For more details on system arming/disarming by the keypad, please refer to 12.3. EKB2 Keypad and User/Master Code, 12.4. EKB3 Keypad and User/Master Code and 12.5. EKB3W Keypad and User/Master Code.

Set EKB3 partition mode as 2-partition or 4-partition



EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set keypad partition

Menu path:

EKB2 partition: $OK \rightarrow iiii \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow KEYPAD PARTITION → OK → KEYPAD PARTITION → OK → [k] EKB2 → OK → PARTITION 1... <math>4 \rightarrow OK \rightarrow DISABLE | ENABLE \rightarrow OK$ EKB3 partition: ... → KEYPAD PARTITION → OK → [k] EKB3 → OK → PARTITION 1... $4 \rightarrow OK$ EKB3W partition: ... → KEYPAD PARTITION → OK → EKB3W PARTITION → OK → EKB3W Wless-id → OK → PARTITION 1... $2 \rightarrow OK$

Value: iiii - 4-digit installer code; k - keypad slot, range - [1... 4]; wless-id - 8-character wireless device ID code.

EKB3/ EKB3W

Enter parameter 51, keypad slot and partition number:

EKB3 partition: 51 kk p # EKB3W partition: 51 kw r #

Value: *kk* – EKB3 keypad slot, range – [01... 04]; *kw* – EB3W keypad slot, range – [05... 08]; *p* – EKB3 partition number, range – [1... 4]; *r* – EKB3W partition number, range – [1... 2].

Example: 51062#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: 4-partition mode must be enabled in order to assign EKB3 keypad to Partition 3 or Partition 4.

NOTE: EKB2 keypad can operate in multiple partitions, while EKB3 keypad can operate only in a single partition.

NOTE: EKB3W keypad assignment is restricted to Partition 1 and Partition 2.

NOTE: The slots for EKB3W keypads are automatically assigned to the paired keypad in the chronological order, hence the earliest paired keypad would acquire slot 5, while the latest paired keypad would acquire slot 8.

Keypad partition switch allows to quickly change the EKB3/EKB3W keypad partition. When the keypad partition is changed and when 1 minute after the last key-stroke expires, the system will return to the assigned keypad partition. Typically, this feature is used for viewing arm/ disarm status and alarms of a different partition or when arming/disarming a different system partition by EKB3/EKB3W keypad than the keypad is assigned to.

By default, keypad partition switch is disabled. To enable/disable this feature, please refer to the following configuration methods.

Enable keypad partition switch



Menu path:

 $\mathsf{OK} \! o \! \mathsf{iiii} \! o \! \mathsf{OK} \! o \! \mathsf{PRIMARY} \! \mathsf{SETTINGS} \! o \! \mathsf{OK} \! o \! \mathsf{KEYPAD} \! \mathsf{PARTITION} \! o \! \mathsf{OK} \! o \! \mathsf{PARTITION} \! \mathsf{SWITCH}$

 \rightarrow OK \rightarrow ENABLE \rightarrow OK Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 77 and parameter status value:

771#

Example: 771#

Confia Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable keypad partition switch



 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{PRIMARY SETTINGS} o \mathsf{OK} o \mathsf{KEYPAD PARTITION} o \mathsf{OK} o \mathsf{PARTITION SWITCH}$ \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 77 and parameter status value:

770# Example: 770#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: Keypad partition switch can only be used when the system is partitioned.

23.4. User/Master Code Partition

User/master code partition determines which system partition (-s) can be armed/disarm using a certain user/master code. User/master code must be assigned to the same partition as the keypad (see 23.3. Keypad Partition and Keypad Partition Switch) in order to arm/ disarm the system by EKB2/EKB3/EKB3W keypad . For more details on system arming/disarming by the keypad, please refer to 12.3. EKB2 Keypad and User/Master Code, 12.4. EKB3 Keypad and User/Master Code and 12.5. EKB3W Keypad and User/Master Code.

Set user/master code partition



Menu path:

Master code: $OK \rightarrow mmmm \rightarrow OK \rightarrow CODES \rightarrow OK \rightarrow MASTER CODE \rightarrow OK \rightarrow PARTITION \rightarrow OK$ \rightarrow pv \rightarrow OK

User code 2... 17: ... \rightarrow CODES \rightarrow OK \rightarrow USER CODE (2-17) $PARTITION \rightarrow OK \rightarrow pv \rightarrow OK$

User code 18... 30: ... → CODES → OK → USER CODE (18-30) → OK → USER CODE 18... 30 → OK \rightarrow PARTITION \rightarrow OK \rightarrow pv \rightarrow OK

Value: mmmm - 4-digit master code; pv - partition value (see 23. PARTITIONS).



Press [CODE], [5], enter 01/user code slot, partition value and master code:

Master code: [CODE] [5] 01 pv mmmm # User code: [CODE] [5] us pv mmmm #

Value: us - user code slot, range - [02... 30]; pv - partition value (see 23. PARTITIONS);

mmmm - 4-digit master code. Example: CODE50481111#

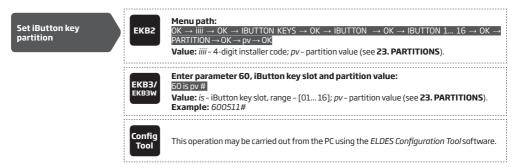


This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE for EKB3/EKB3W: The Configuration mode must be deactivated, while managing user and master code partition.

23.5. iButton Key Partition

iButton key partition determines which system partition (-s) can be armed/disarmed using a certain key. iButton key must be assigned to the partition (-s) that the user desires to arm. For more details on system arming/disarming by iButton key, please refer to **12.6. iButton Key**.



23.6. EWK1/EWK2/EWK2A Wireless Keyfob Partition

EWK1/EWK2/EWK2A wireless keyfob partition determines which system partition can be armed/disarmed using a certain EWK1/EWK2 wireless keyfob. For more details on system arming/disarming by EWK1/EWK2 wireless keyfob, please refer to **12.7. EWK1/EWK2 Wireless Keyfob**.



24. TEMPERATURE SENSORS

The system may be equipped with on-board temperature sensors and/or wireless devices with built-in temperature sensors intended for temperature measurement in the surrounding areas. This feature allows to monitor the temperature of up to 8 different areas in real-time and receive a notification by SMS text message to the listed user phone number and/or EGR100 middle-ware when the set temperature thresholds are exceeded. The temperature is measured at 0,5 degree centigrade (°C) accuracy and automatically rounded to the higher value when 0,5 or above, e. g. temperature ranging from 23,5°C through 24,4°C will be treated as 24°C. For this purpose you may use the on-board temperature sensors or the built-in temperature sensor of the following wireless devices:

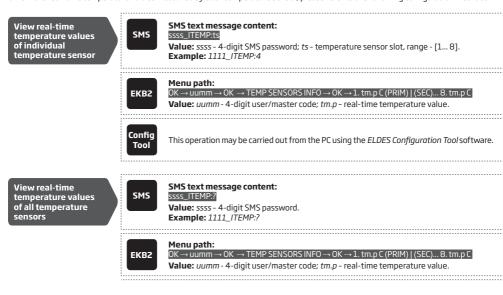
- · EWP2 wireless motion detector.
- EWD2 wireless magnetic door contact/shock sensor/flood sensor.
- · EWS3 wireless indoor siren.
- EWS2 wireless outdoor siren.
- EWF1 wireless smoke detector.
- EWF1CO wireless smoke and CO detector.
- EW2 wireless zone and PGM output expansion module (an external temperature sensor (-s) must be connected to EW2 for this purpose).
- EWM1 wireless power socket.

24.1. Adding, Removing and Replacing On-Board Temperature Sensors

To add a temperature sensor to the system, do the following:

- a) Shutdown the system.
- b) Wire up the temperature sensor to the 1-Wire interface terminals (see 2.3.5. Temperature Sensor and iButton Key Reader for temperature sensor wiring diagram).
- c) Power up the system.
- d) Run ELDES Configuration Tool software, check if the temperature sensor has been recognized by the system and assign it to the desired temperature sensor slot.
- e) If more than one temperature sensor is required, shut down the system again and wire another sensor in parallel to the previous one. By default, the first added temperature sensor will be identified as primary and the second one as secondary temperature sensor (see **24.2. Primary and Secondary Temperature Sensors**).
- f) Repeat the procedure as mentioned in steps from a) to d).
- q) Add as many temperature sensors as necessary wire up one after another in parallel until the number of 8 sensors is reached.

To view the real-time temperature values measured by each temperature sensor, please refer to the following configuration methods.





This operation may be carried out from the PC using the ELDES Configuration Tool software.

If an on-board temperature sensor is faulty, it is recommended to remove it or replace it by a functional sensor. In order to assign the temperature sensor slot of the damaged temperature sensor to the new temperature sensor, please follow the procedure:

- a) Shutdown the system.
- b) Disconnect the faulty temperature sensor and replace it with a new one.
- c) Power up the system.
- d) Run ELDES Configuration Tool software.
- e) Select the newly replaced temperature sensor ID from the drop-down list of the temperature sensor slot that was previously associated with a faulty temperature sensor.

Remove/replace individual temperature sensor



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: When multiple on-board temperature sensors are connected, please touch and hold the sensor with your fingers and watch the temperature value change to identify the number of the temperature sensor slot.

24.2. Primary and Secondary Temperature Sensors

Any out of 8 available temperature sensors can be set as primary or secondary. The real-time temperature values of the primary and secondary temperature sensors are included in the Info SMS text message (see **26. SYSTEM INFORMATION. INFO SMS**) as well as the temperature measured by the primary temperature sensor is indicated in the home screen view of EKB2 keypad.

To set temperature sensors as primary or secondary, please refer to the following configuration methods.

Set primary temperature sensor



SMS text message content:

ssss_TEMPI:PRIM:ts

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8]. **Example:** 1111 TEMPI:PRIM:4



Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → TEMP SENSORS → OK → PRIMARY TEMP SENS → OK → 1... 8 CONNECTED → OK

Value: iiii - 4-digit installer code.



Enter parameter 89 and temperature sensor slot:

89 ts #

Value: ts - temperature sensor slot, range - [01... 08].

Example: 8903#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set secondary temperature sensor



SMS text message content:

ssss_TEMPI:SEC:ts

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8].

Example: 1111_TEMPI:SEC:3



Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → TEMP SENSORS → OK → SECOND. TEMP SENS → OK → 1... 8 CONNECTED → OK

 \rightarrow UK \rightarrow 1... 8 CUININEC I ED \rightarrow UK

Value: iiii - 4-digit installer code.



Enter parameter 90 and temperature sensor slot:

90 ts #

Value: ts - temperature sensor slot, range - [01... 08].

Example: 9005#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

To view the slot number of primary and secondary temperature sensors, please refer to the following configuration methods.

View primary and secondary temperature sensor slot number

SMS

SMS text message content:

ssss_TEMPI:?

Value: ssss - 4-digit SMS password.

Example: 1111_TEMPI:?

EKB2

Menu path:

Primary: $OK \rightarrow uumm \rightarrow OK \rightarrow TEMP SENSORS INFO \rightarrow OK \rightarrow 1... 8 tm.p C (PRIM)$

Secondary: ... \rightarrow TEMP SENSORS INFO \rightarrow OK \rightarrow 1... 8 tm.p C (SEC)

Value: uumm - 4-digit user/master code; tm.p - real-time temperature value.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

View primary and secondary temperature sensor real-time temperature values SMS

SMS text message content:

ssss_INFO

Value: ssss - 4-digit SMS password.

Example: 1111_INFO

EKB2

Menu path:

Primary: OK \rightarrow uumm \rightarrow OK \rightarrow TEMP SENSORS INFO \rightarrow OK \rightarrow 1... 8 tm.p C (PRIM)

Secondary: ... \rightarrow TEMP SENSORS INFO \rightarrow OK \rightarrow 1... 8 tm.p C (SEC)

Value: uumm - 4-digit user/master code; tm.p - real-time temperature value.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: Primary and secondary temperature sensors can be set by a single SMS text message, Example: 1111_TEMPI:PRIM:4,SEC:3

24.3. Setting Up MIN and MAX Temperature Thresholds. Temperature Info SMS

The system supports an SMS text message identified as the Temperature Info SMS, which is automatically delivered to the listed user phone number if the specified minimum (MIN) or maximum (MAX) temperature threshold of any temperature sensor is exceeded by at least 1°C.

To set the MIN and MAX temperature thresholds for a certain temperature sensor, please refer to the configuration methods.

Set MIN and MAX temperature boundaries SMS

SMS text message content:

ssss_TEMPts:MIN:mnn,MAX:mxx

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8]; mnn - MIN boundary, range - [-55... 125] C; mxx - MAX boundary, range - [-55... 125] °C.

Example: 1111_TEMP2:MIN:-5,MAX:28

EKB2

Menu path:

MIN: $OK \rightarrow iiii \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow TEMP SENSORS \rightarrow OK \rightarrow TEMPERATURE$

 $\overline{\mathsf{SENS}}\,1...\,8 \to \mathsf{OK} \to \mathsf{TEMP}.\,\mathsf{MIN} \to \mathsf{OK} \to \mathsf{mnn} \to \mathsf{OK}$

MAX: ... \rightarrow TEMPERATURE SENS 1... $8 \rightarrow$ OK \rightarrow TEMP. MAX \rightarrow OK \rightarrow mxx \rightarrow OK

Value: iiii - 4-digit installer code; mnn - MIN boundary, range - [-55... 125] °C; mxx - MAX boundary, range - [-55... 125] °C.

Keys P1 or P2 are used to enter minus character, e.q. -20.

EKB3/

Enter parameter 19 and temperature value:

19 ts mnn mxx #

Value: ts - temperature sensor slot, range - [1... 8]; mnn - MIN boundary, range - [-55... 125] C; mxx - MAX boundary, range - [-55... 125] °C. 00 value stands for minus character, e. g. 0020 = -20

Example: 1906001530#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

View MIN and MAX temperature boundaries SMS

SMS text message content:

ssss_TEMPts

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8].

Example: 1111_TEMP4

EKB2

Menu path:

 $\underline{\mathsf{MIN:}}\ \mathsf{OK} \to \underline{\mathsf{iiii}} \to \mathsf{OK} \to \mathsf{PRIMARY}\ \mathsf{SETTINGS} \to \mathsf{OK} \to \mathsf{TEMP}\ \mathsf{SENSORS} \to \mathsf{OK} \to \mathsf{TEMPERATURE}$

SENS 1... $8 \rightarrow 0K \rightarrow TEMP. MIN$

MAX: ... \rightarrow TEMPERATURE SENS 1... $8 \rightarrow$ OK \rightarrow TEMP. MAX

Value: iiii - 4-digit installer code

Config Tool

 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

For more details on how Send SMS text message to all users simultaneously and SMS delivery report parameters affect the SMS text message transmission, please refer to **27. SYSTEM NOTIFICATIONS.**

NOTE: MIN and MAX thresholds can also be set separately by multiple SMS text messages, **Example:** 1111_TEMP1:MIN:6 and 1111_TEMP1:-MAX:40

24.4. Temperature Sensor Names

The temperature sensor name is included in the Temperature Info SMS when delivered to the listed user phone number. This feature allows easier identification of the temperature sensor and normally it is used when monitoring temperature changes in different areas.

Set temperature sensor name

SMS

SMS text message content:

ssss_TEMPts:NAME:temp-sens-name

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8]; temp-sens-name - 4 to 24 characters temperature sensor name.

Example: 1111_TEMP3:NAME:Warehouse

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

View temperature sensor name

SMS

SMS text message content:

ssss_TEMPts

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1...8]. **Example:** 1111_TEMP3

EKB2

Menu path:

OK → iiii → OK → PRIMARY SETTINGS → OK → TEMP SENSORS → OK → TEMPERATURE SENS 1... 8 → OK → NAME

Value: iiii - 4-digit installer code.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Delete temperature sensor name

SMS

SMS text message content:

ssss_TEMPts:NAME:

Value: ssss - 4-digit SMS password; ts - temperature sensor slot, range - [1... 8]. **Example:** $1111_TEMP2:NAME$:

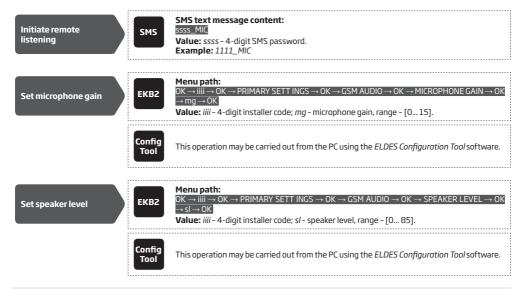


This operation may be carried out from the PC using the ELDES Configuration Tool software.

25. REMOTE LISTENING AND 2-WAY VOICE COMMUNICATION

ESIM364 comes equipped with a microphone that allows the user to listen on his mobile phone to what is happening in the secured area. By installing the audio module EA2, the user will be able to have a 2-way voice communication (see **32.3.2. EA2 - Audio Output Module with Amplifier**). Remote listening and 2-way voice communication can operate under the following conditions:

- The system makes a phone call via GSM to a listed user phone number in case of alarm and the user answers the call.
- The user initiates remote listening by sending the SMS text message, the system makes a phone call via GSM to the user phone number that the SMS text message was sent from and the user answers the call.



ATTENTION: Phone calls to the listed user phone number in case of alarm are disabled by force when MS mode is enabled (see 30. MONITORING STATION).

26. SYSTEM INFORMATION, INFO SMS

The system supports an informational SMS text message identified as the Info SMS, which can be delivered upon request. Once requested, the system will reply with Info SMS that provides the following:

- System date and time.
- System status: partition armed (ON)/disarmed (OFF).
- GSM signal strength.
- Mains power status.
- Temperature of the area surrounding primary and secondary temperature sensors (if any).
- State of zones (OK/alarm).
- Name and status (ON/OFF) of PGM outputs.

Request for system information

SMS text message content: ssss_INFO SMS

Value: ssss - 4-digit SMS password. Example: 1111 INFO

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

26.1. Periodic Info SMS

By default, the system sends Info SMS to User 1 phone number periodically once a day at 11:00 (frequency - 1 day; time - 11). The minimum period is every 1 hour (frequency - 0 days; time - 1). Typically, this feature is used to verify the power supply and online status of the system.

To set a different frequency and time or disable periodic Info SMS, please refer to the following configuration methods.

Set periodic Info SMS frequency and time

SMS

SMS text message content:

ssss INFO:fff:it

Value: ssss - 4-digit SMS password; fff - frequency, range - [0... 99] days; it - time, range

- [0... 23].

Example: 1111_INFO:3.15

EKB2

Menu path:

Frequency: OK o iiii o PRIMARY SETTINGS o OK o INFO SMS SCHEDULER o OK o FREQUENCY (DAYS) o fff o OK

Time: ... \rightarrow INFO SMS SCHEDULER \rightarrow OK \rightarrow TIME \rightarrow it \rightarrow OK

Value: iiii - 4-digit installer code; fff - frequency, range - [00... 125] days; it - time, range -[00...23].

EKB3/ EKB3W Enter parameter 11, time and frequency:

11it fff #

Value: it - time, range - [01... 23]; fff - frequency, range - [00... 125] days.

Example: 110412#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable periodic Info **SMS**

SMS

SMS text message content:

ssss INFO:00:00

Value: ssss - 4-digit SMS password Example: 1111_INFO:00.00

EKB2

Menu path:

Frequency: $OK \rightarrow iiii \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow INFO SMS SCHEDULER \rightarrow OK \rightarrow$ FREQUENCY (DAYS) \rightarrow 0 \rightarrow 0K

Time: ... \rightarrow INFO SMS SCHEDULER \rightarrow OK \rightarrow TIME \rightarrow O \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 11 and parameter status value:

11 00 00 #

Example: 110000#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: Unlike Info SMS upon request, periodic Info SMS text message does not include zone states, PGM output names and status.

26.2. SMS Forward

ESIM364 comes up with a feature, called SMS forward. The system allows user to forward any received message from devices' SIM card to the administrators' mobile phone number. Using ELDES Configuration Tool software, open **System** section, where you'll be able to configure and choose further options. There are 4 basic SMS forwarding options:

- Forward All received SMS if this option is enabled, then every single message, coming to devices' SIM card, will be forwarded to the administrators' phone number.
- Forward All received SMS from unknown users allows user to receive only those messages, coming from unlisted phone numbers.
- Forward All received SMS from registered users with wrong syntax or wrong password user will receive only those messages from listed phone numbers, containing "wrong syntax" or "wrong password" notification.
- Forward All received SMS from specified Phone Number allows you to enter one specified phone number and exploit every single
 message that comes from it to your devices' SIM card.

By default, SMS forward feature is disabled. To enable/disable this feature, please refer to the following configuration method.

Enable/disable SMS forward



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

ATTENTION: If a single forwarded SMS message size exceeds 160 characters, it won't be transmitted properly.

ATTENTION: User is able to add the administrator phone number as a specified phone number (by enabling the option Forward All received SMS from specified Phone Number), but none of SMS messages will be forwarded to administrator himself in any case!

27. SYSTEM NOTIFICATIONS

By default, in case of a certain event, the system attempts to send an SMS text message to the first listed user phone number only. If the user phone number is unavailable and the system fails to receive the SMS delivery report during 45 seconds, it will attempt to send the SMS text message to the next listed user phone number, assigned to the same partition as the previous one. The user phone number may be unavailable due to the following reasons:

- mobile phone was switched off.
- was out of GSM signal coverage.

The system will continue sending the SMS text message to the next listed user phone numbers in the priority order until one is available. The system sends the SMS text message only once and will not return to the first user phone number if the last one was unavailable.

To change the SMS text message delivery algorithm, user can enable/disable the following parameters for certain events:

- Send SMS text message to all users simultaneously This parameter determines whether to ignore the SMS delivery report or not. Once enabled, the system will attempt to send the SMS text message to every listed user phone number that is enabled to receive a certain event from the system by SMS text message. In addition, this parameter overrides the SMS delivery report parameter regardless of the SMS delivery report parameter's status (enabled/disabled).
- SMS delivery report This parameter determines whether to request for SMS delivery report or not. Once disabled, the system will
 not verify the status of the SMS text message delivery and will attempt to deliver the SMS text message only to the first listed user
 phone number regardless if the next listed user phone number (-s) is enabled to receive a certain event by SMS text message or not.

When using Dual-SIM feature, the Secondary SIM card is involved in the communication process. For more details, please refer to **31. DUAL SIM MANAGEMENT.**

The following table provides the description of system notifications by SMS text message sent to the user phone number.

| Seq. No. | Event | Description | |
|----------|--|--|--|
| 1 | System armed | SMS text message sent to the user regarding armed system. | |
| 2 | System disarmed | SMS text message sent to the user about disarmed system. | |
| 3 | General alarm | SMS text message sent to the user in case of system alarm occurrence. | |
| 4 | Mains power loss/ restore | SMS text message sent to the user in case the mains power is lost or restored | |
| 5 | Battery failed | SMS text message sent to the user in case the backup battery resistance is 2Ω or higher (battery requires replacement). | |
| 6 | Battery dead or missing | SMS text message sent to the user in case the backup battery is not present or the battery voltage runs below 5V. | |
| 7 | Low battery | SMS text message sent to the user in case the backup battery voltage is 10.5V or lower. | |
| 8 | Siren fail/restore | SMS text message sent to the user in case the siren is disconnected/broken or connected/fixed. | |
| 9 | Date/time not set | SMS text message sent to the user in case system date and time is not set. | |
| 10 | GSM connection failed | SMS text message sent to the user in case the GSM connection is lost. | |
| 11 | GSM/GPRS antenna fail/restore | SMS text message sent to the user in case the GSM/GPRS antenna is disconnected/broken or connected/broken. | |
| 12 | Tamper alarm | SMS text message sent to the user in case of tamper violation. Indicated as <i>Tamper x</i> . | |
| 13 | Keypad failed | SMS text message sent to the user in case the keypad is disconnected/broken. | |
| 14 | Temperature info | SMS text message sent to the user in case of temperature deviation by the set values. | |
| 15 | System started | SMS text message sent to the user on system startup. | |
| 16 | Periodical info | Info SMS text message sent to the user periodically by the set values. | |
| 17 | Wireless signal loss/ restore | SMS text message sent to the user in case the wireless signal is lost or restored Indicated as No wireless signal from wless-dev wless-id Tamper x and Wireless signal restored. From wless-dev wless-id Tamper x respectively. This notification does NOT apply to EWM1 device. | |
| 18 | Unable to arm | SMS text message sent to the user in case the system denies arming due to existing violated zone (-s)/tamper (-s). | |
| 19 | CO level critical | SMS text message sent to the user in case the critical level 4 of carbon monoxide (CO) concentration detected by EWF1CO is reached. | |
| 20 | Report/Control zone triggered | SMS text message sent to the user in case the Report/Control-type zone is triggered. | |
| 21 | Zone bypass | SMS text message sent to the user in case a violated zone is bypassed. | |
| 22 | SMS text message sent to the user in case the wireless signal with EWM1 device is lost or restored Indicated as No wireless signal from wless-dev wless-id Tamper x and Wireless signal restored. From wless-dev wless-id Tamper x respectively. This notification cannot be managed via EKB2. | | |

Disable system notification

EKB2

Menu path:

System armed:

User phone number: OK → iiii → OK → SMS MESSAGES 1 → OK → SYS ARMED EVENT → OK → GSM USER 1... 10 → 0K → DISABLE → 0K

SMS text message to all users simultaneously: ... \to SYS ARMED EVENT \to 0K \to SMS TO ALL \to 0K \to DISABLE \to 0K

SMS delivery report: ... \rightarrow SYS ARMED EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

System disarmed:

User phone number: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS text message to all users simultaneously: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

General alarm:

User phone number: ... \rightarrow GENERAL ALARM EV \rightarrow 0K \rightarrow GSM USER 1... 10 \rightarrow 0K \rightarrow DISABLE \rightarrow 0K

SMS text message to all users simultaneously: ... \to GENERAL ALARM EV \to 0K \to 5MS TO ALL \to 0K \to DISABLE \to 0K

SMS delivery report: ... \rightarrow GENERAL ALARM EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Mains power loss/restore:

User phone number: ... → MAIN POWER L/R EV → 0K → GSM USER 1... 10 → 0K → DISABLE → 0K

SMS text message to all users simultaneously: ... \rightarrow MAIN POWER L/R EV \rightarrow 0K \rightarrow 5MS TO ALL \rightarrow 0K \rightarrow DISABLE \rightarrow 0K

SMS delivery report: ... \rightarrow MAIN POWER L/R EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Battery failed:

User phone number: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Battery dead or missing:

User phone number: ... → BATTERY DEAD/MISS → 0K → GSM USER 1... 10 → 0K → DISABLE → 0K

SMS text message to all users simultaneously: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

 $SMS\ delivery\ report: ... \rightarrow BATTERY\ DEAD/MISS \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK \rightarrow SMS\ REPORT \rightarrow OK \rightarrow DISABLE \rightarrow$

Low battery:

User phone number: ... \to LOW BATTERY EVENT \to OK \to GSM USER 1... $10 \to$ OK \to DISABLE \to OK

SMS text message to all users simultaneously: ... \to LOW BATTERY EVENT \to OK \to SMS TO ALL \to OK \to DISABLE \to OK

SMS delivery report: ... \rightarrow LOW BATTERY EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Siren fail/restore:

User phone number: ... \to SIREN FAIL/REST EV \to 0K \to GSM USER 1... 10 \to 0K \to DISABLE \to 0K

SMS text message to all users simultaneously: ... ightarrow SIREN FAIL/REST EV ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow DISABLE ightarrow OK

SMS delivery report: ... \rightarrow SIREN FAIL/REST EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Date/time not set:

User phone number: OK → iiii → OK → SMS MESSAGES 2 → OK → DATE/TIME NOT SET → OK → GSM USER 1... 10 → OK → DISABLE → OK

SMS text message to all users simultaneously: ... \rightarrow DATE/TIME NOT SET \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow DATE/TIME NOT SET \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

```
GSM connection failed:
```

User phone number: $OK \rightarrow iiii \rightarrow OK \rightarrow SMS$ MESSAGES 2 \rightarrow OK \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS text message to all users simultaneously: ... \rightarrow OK \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

GSM/GPRS antenna fail/restore:

User phone number: ... ightarrow GSM ANT FAIL/REST ightarrow OK ightarrow GSM USER 1... 10
ightarrow OK ightarrow DISABLE \rightarrow OK

SMS text message to all users simultaneously: $... \rightarrow$ GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Tamper alarm:

User phone number: ... → TAMPER ALARM → OK → GSM USER 1... 10 → OK → DISABLE → OK SMS text message to all users simultaneously: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS TO ALL \rightarrow $OK \rightarrow DISABLE \rightarrow OK$

SMS delivery report: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Keypad failed:

User phone number: ... \rightarrow KEYPAD FAILED \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow KEYPAD FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow $OK \rightarrow DISABLE \rightarrow OK$

SMS delivery report: ... \rightarrow KEYPAD FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Temperature info:

User phone number: ... \rightarrow TEMP INFO EVENT \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow TEMP INFO EVENT \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow TEMP INFO EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

System started:

User phone number: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE

SMS text message to all users simultaneously: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Periodical info:

User phone number: ... \rightarrow PERIOD INFO SMS EV \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS text message to all users simultaneously: ... \rightarrow PERIOD INFO SMS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow PERIOD INFO SMS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Wireless signal loss/restore:

User phone number: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS text message to all users simultaneously:... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Unable to arm:

User phone number: ... \rightarrow FAIL TO ARM SMS \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow FAIL TO ARM SMS \rightarrow OK \rightarrow SMS TO ALL \rightarrow $OK \rightarrow DISABLE \rightarrow OK$

SMS delivery report: ... \rightarrow FAIL TO ARM SMS \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

ΕN MANUAL ELDES ESIM364 v1.8

CO level critical:

User phone number: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Report/Control zone triggered:

User phone number: ... → REPORT/CTRL TRIG → OK → GSM USER 1... 10 → OK → DISABLE → OK

SMS text message to all users simultaneously: ... ightarrow REPORT/CTRL TRIG ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow DISABLE ightarrow OK

SMS delivery report: ... \rightarrow REPORT/CTRL TRIG \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Zone bypass:

User phone number: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow DISABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow DISABLE \rightarrow OK

SMS delivery report: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

System armed event

User phone number: 25 01 up 0 #

SMS text message to all users simultaneously: 21 01 0 #

SMS delivery report: 55 01 0 #

System disarmed event

User phone number: 25 02 up 0 #

SMS text message to all users simultaneously: 21 02 0 #

SMS delivery report: 55 02 0 #

General alarm

User phone number: 25 03 up 0 #

SMS text message to all users simultaneously: 21 03 0 #

SMS delivery report: 55 03 0 #

Main power loss/restore

User phone number: 25 04 up 0 #

SMS text message to all users simultaneously: 21 04 0 #

SMS delivery report: 55 04 0 #

Battery failed

User phone number: 25 05 up 0 #

SMS text message to all users simultaneously: 21 05 0 #

SMS delivery report: 55 05 0 #

Battery dead or missing

User phone number: 25 06 up 0 #

SMS text message to all users simultaneously: 21 06 0 #

SMS delivery report: 55 06 0 #

Low battery

User phone number: 25 07 up 0 #

SMS text message to all users simultaneously: 21 07 0 #

SMS delivery report: 55 07 0 #

Siren fail/restore

User phone number: 25 08 up 0 #

SMS text message to all users simultaneously: 21 08 0 #

SMS delivery report: 55 08 0 #

Date/time not set

User phone number: 25 10 up 0 #

SMS text message to all users simultaneously: 21 10 0 #

SMS delivery report: 55 10 0 #

GSM connection failed

User phone number: 25 11 up 0 #

SMS text message to all users simultaneously: 21 11 0 #

SMS delivery report: 55 11 0 #

GSM/GPRS antenna fail/restore

User phone number: 25 12 up 0 #

SMS text message to all users simultaneously: 21 12 0 #

SMS delivery report: 55 12 0 #

Tamper alarm

User phone number: 25 13 up 0 #

SMS text message to all users simultaneously: 21 13 0 #

SMS delivery report: 55 13 0 #

Keypad failed

User phone number: 25 14 up 0 #

SMS text message to all users simultaneously: 21 14 0 #

SMS delivery report: 55 14 0 #

Temperature info

User phone number: 25 15 up 0 #

SMS text message to all users simultaneously: 21 15 0 #

SMS delivery report: 55 15 0 #

System started

User phone number: 25 16 up 0 #

SMS text message to all users simultaneously: 21 16 0 #

SMS delivery report: 55 16 0 #

Periodical info

User phone number: 25 17 up 0 #

SMS text message to all users simultaneously: 21 17 0 #

SMS delivery report: 55 17 0 #

Wireless signal loss/restore

User phone number: 25 18 up 0 #

SMS text message to all users simultaneously: 21180#

SMS delivery report: 55 18 0 #

Unable to arm

User phone number: 25 19 up 0 #

SMS text message to all users simultaneously: 21190#

SMS delivery report: 55 19 0 #

Zone bypass

User phone number: 25 20 up 0 #

SMS text message to all users simultaneously: 21 20 0 #

SMS delivery report: 55 20 0 #

CO level critical

User phone number: 25 21up 0 #

SMS text message to all users simultaneously: 21 21 0 #

SMS delivery report: 55 21 0 #

EWM1 wireless signal loss/restore

User phone number: 25 22 up 0 #

SMS text message to all users simultaneously: 21 22 0 #

SMS delivery report: 55 22 0 #

Report/Control zone triggered

User phone number: 25 23 up 0 #

SMS text message to all users simultaneously: 21 23 0 #

SMS delivery report: 55 23 0 #

Value: up - user phone number slot, range - [01... 10].

Example: 2514020#



EKB2

This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Enable system notification

Menu path:

System armed:

User phone number: 0K → iiii → 0K → SMS MESSAGES 1 → 0K → SYS ARMED EVENT → 0K → GSM USER 1...10 → 0K → ENABLE → 0K

SMS text message to all users simultaneously: ... \to SYS ARMED EVENT \to OK \to SMS TO ALL \to OK \to ENABLE \to OK

SMS delivery report: ... \rightarrow SYS ARMED EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

System disarmed:

User phone number: ... \to SYS DISARMED EVENT \to OK \to GSM USER 1... 10 \to OK \to ENABLE \to OK

SMS text message to all users simultaneously: ... \to SYS DISARMED EVENT \to 0K \to SMS TO ALL \to 0K \to ENABLE \to 0K

SMS delivery report: ... \rightarrow SYS DISARMED EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

General alarm:

User phone number: ... ightarrow GENERAL ALARM EV ightarrow OK ightarrow GSM USER 1... 10 ightarrow OK ightarrow ENABLE ightarrow OK

SMS text message to all users simultaneously: ... ightarrow GENERAL ALARM EV ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow ENABLE ightarrow OK

SMS delivery report: ... \rightarrow GENERAL ALARM EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Mains power loss/restore:

User phone number: ... → MAIN POWER L/R EV → 0K → GSM USER 1... 10 → 0K → ENABLE → 0K

SMS text message to all users simultaneously: ... ightarrow MAIN POWER L/R EV ightarrow OK ightarrow SMS TO ALL ightarrow OK ightarrow ENABLE ightarrow OK

SMS delivery report: ... \rightarrow MAIN POWER L/R EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Battery failed:

User phone number: ... → BATTERY FAILED → 0K → GSM USER 1... 10 → 0K → ENABLE → 0K SMS text message to all users simultaneously: ... → BATTERY FAILED → 0K → SMS TO ALL → 0K → ENABLE → 0K

SMS delivery report: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Battery dead or missing:

User phone number: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow ENABLE \rightarrow OK

SMS text message to all users simultaneously: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... → BATTERY DEAD/MISS → OK → SMS REPORT → OK → ENABLE → OK

```
Low battery:
User phone number: ... \rightarrow LOW BATTERY EVENT \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE
SMS text message to all users simultaneously: ... \rightarrow LOW BATTERY EVENT \rightarrow OK \rightarrow SMS TO
ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow LOW BATTERY EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
Siren fail/restore:
User phone number: ... 
ightarrow SIREN FAIL/REST EV 
ightarrow OK 
ightarrow GSM USER 1... 10 
ightarrow OK 
ightarrow ENABLE
\rightarrow OK
SMS text message to all users simultaneously: ... \rightarrow SIREN FAIL/REST EV \rightarrow OK \rightarrow SMS TO ALL
\rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow SIREN FAIL/REST EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
Date/time not set
User phone number: OK \rightarrow iiii \rightarrow OK \rightarrow SMS MESSAGES 2 \rightarrow OK \rightarrow DATE/TIME NOT SET NO
GSM USER 1... 10 \rightarrow 0K \rightarrow ENABLE \rightarrow 0K
SMS text message to all users simultaneously: ... \rightarrow DATE/TIME NOT SET \rightarrow OK \rightarrow SMS TO ALL
\rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow DATE/TIME NOT SET \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
GSM connection failed:
\rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS text message to all users simultaneously: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS TO
ALL \rightarrow OK \rightarrow DENABLE \rightarrow OK
SMS delivery report: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
GSM/GPRS antenna fail/restore:
User phone number: ... 
ightarrow GSM ANT FAIL/REST 
ightarrow OK 
ightarrow GSM USER 1... 10 
ightarrow OK 
ightarrow ENABLE
\rightarrow 0K
SMS text message to all users simultaneously: ... \rightarrow GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS TO ALL
\rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow GSM ANT FAIL/REST \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
Tamper alarm:
User phone number: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS text message to all users simultaneously: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS TO ALL \rightarrow
OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow TAMPER ALARM \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
Keypad failed:
User phone number: ... \rightarrow KEYPAD FAILED\rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS text message to all users simultaneously: ... \rightarrow KEYPAD FAILED \rightarrow OK \rightarrow SMS TO ALL \rightarrow
SMS delivery report: ... \rightarrow KEYPAD FAILED \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
Temperature info:
User phone number: ... → TEMP INFO EVENT → OK → GSM USER 1... 10 → OK → ENABLE → OK
SMS text message to all users simultaneously: ... \rightarrow TEMP INFO EVENT \rightarrow OK \rightarrow SMS TO ALL
\rightarrow OK \rightarrow ENABLE \rightarrow OK
SMS delivery report: ... \rightarrow TEMP INFO EVENT \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK
System started:
User phone number: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow GSM USER 1... 10 \rightarrow OK \rightarrow ENABLE
SMS text message to all users simultaneously: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow SMS TO ALL
```

SMS delivery report: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

116 EN MANUAL ELDES ESIM364 v1.8

 \rightarrow OK \rightarrow ENABLE \rightarrow OK

Periodical info:

User phone number: ... ightarrow PERIOD INFO SMS EV ightarrow OK ightarrow GSM USER 1... 10 ightarrow OK ightarrow ENABLE ightarrow OK

SMS text message to all users simultaneously: ... \to PERIOD INFO SMS EV \to OK \to SMS TO ALL \to OK \to ENABLE \to OK

SMS delivery report: ... \rightarrow PERIOD INFO SMS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Wireless signal loss/restore:

User phone number: ... ightarrow WLESS SIGN LOSS EV ightarrow OK ightarrow GSM USER 1... 10 ightarrow OK ightarrow ENABLE ightarrow OK

SMS text message to all users simultaneously: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow WLESS SIGN LOSS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Unable to arm:

User phone number: ... \rightarrow FAIL TO ARM SMS \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow ENABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow FAIL TO ARM SMS \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... → FAIL TO ARM SMS → OK → SMS REPORT → OK → ENABLE → OK

CO level critical:

User phone number: ... \rightarrow C0 LEVEL CRITICAL \rightarrow 0K \rightarrow GSM USER 1... 10 \rightarrow 0K \rightarrow ENABLE \rightarrow 0K SMS text message to all users simultaneously: ... \rightarrow C0 LEVEL CRITICAL \rightarrow 0K \rightarrow SMS T0 ALL \rightarrow 0K \rightarrow ENABLE \rightarrow 0K

SMS delivery report: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Report/Control zone triggered:

User phone number: ... ightarrow REPORT/CTRL TRIG ightarrow OK ightarrow GSM USER 1... 10 ightarrow OK ightarrow ENABLE ightarrow OK

SMS text message to all users simultaneously: ... \to REPORT/CTRL TRIG \to OK \to SMS TO ALL \to OK \to ENABLE \to OK

SMS delivery report: ... \rightarrow REPORT/CTRL TRIG \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Zone bypass:

User phone number: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow GSM USER 1... $10 \rightarrow$ OK \rightarrow ENABLE \rightarrow OK SMS text message to all users simultaneously: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow SMS TO ALL \rightarrow OK \rightarrow ENABLE \rightarrow OK

SMS delivery report: ... \rightarrow ZONE BYPASS EV \rightarrow OK \rightarrow SMS REPORT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 25/21/55, event number, user phone number slot and parameter status value:

System armed event

User phone number: 25 01 up 1 #

SMS text message to all users simultaneously: 21 01 1 #

SMS delivery report: 55 01 1 #

System disarmed event

User phone number: 25 02 up 1 #

SMS text message to all users simultaneously: 21 02 1 #

SMS delivery report: 55 021#

General alarm

User phone number: 25 03 up 1 #

SMS text message to all users simultaneously: 21 03 1 #

SMS delivery report: 55 03 1 #

Main power loss/restore

User phone number: 25 04 up 1 #

SMS text message to all users simultaneously: 21 04 1 #

SMS delivery report: 55 04 1 #

Battery failed

User phone number: 25 05 up 1 #

SMS text message to all users simultaneously: 21 05 1 #

SMS delivery report: 55 05 1 #

Battery dead or missing

User phone number: 25 06 up 1 #

SMS text message to all users simultaneously: 21 06 1 #

SMS delivery report: 55 06 1 #

Low battery

User phone number: 25 07 up 1 #

SMS text message to all users simultaneously: 21 07 1 #

SMS delivery report: 55 07 1 #

Siren fail/restore

User phone number: 25 08 up 1 #

SMS text message to all users simultaneously: 21 08 1 #

SMS delivery report: 55 08 1 #

Date/time not set

User phone number: 25 10 up 1 #

SMS text message to all users simultaneously: 21101#

SMS delivery report: 55 10 1 #

GSM connection failed

User phone number: 25 11 up 1 #

SMS text message to all users simultaneously: 21 11 1 #

SMS delivery report: 55 11 1 #

GSM/GPRS antenna fail/restore

User phone number: 25 12 up 1 #

SMS text message to all users simultaneously: 21121#

SMS delivery report: 55121#

Tamper alarm

User phone number: 25 13 up 1 #

SMS text message to all users simultaneously: 21131#

SMS delivery report: 55131#

Keypad failed

User phone number: 25 14 up 1 #

SMS text message to all users simultaneously: 21 14 1 #

SMS delivery report: 55 14 1 #

Temperature info

User phone number: 2515 up 1 #

SMS text message to all users simultaneously: 21 15 1 #

SMS delivery report: 55 15 1 #

System started

User phone number: 25 16 up 1 #

SMS text message to all users simultaneously: 21 16 1 #

SMS delivery report: 55 16 1 #

Periodical info

User phone number: 25 17 up 1 #

SMS text message to all users simultaneously: 21 17 1 #

SMS delivery report: 55 17 1 #

Wireless signal loss/restore

User phone number: 25 18 up 1 #

SMS text message to all users simultaneously: 21 18 1 #

SMS delivery report: 55181#

Unable to arm

User phone number: 25 19 up 1 #

SMS text message to all users simultaneously: 21191#

SMS delivery report: 55191#

Zone bypass

User phone number: 25 20 up 1 #

SMS text message to all users simultaneously: 21201#

SMS delivery report: 55 120 1 #

CO level critical

User phone number: 25 21 up 1 #

SMS text message to all users simultaneously: 21 21 1 #

SMS delivery report: 55 21 1 #

EWM1 wireless signal loss/restore

User phone number: 25 22 up 1 #

SMS text message to all users simultaneously: 21 22 1 #

SMS delivery report: 55 22 1 #

Report/Control zone triggered

User phone number: 25 23 up 1 #

SMS text message to all users simultaneously: 21 23 1 #

SMS delivery report: 55 23 1 #

Value: up - user phone number slot, range - [01... 10].

Example: 2517041#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

27.1. SMS Text Message Delivery Restrictions

By default, the system is restricted to send out up to 25 SMS text messages daily and up to 400 SMS text messages monthly. To change the limits or disable SMS text message delivery restrictions, please refer to the following configuration method.

Manage SMS text message delivery limits



This operation may be carried out from the PC using the ELDES Configuration Tool software.

When the daily or monthly SMS text message delivery limit is exceeded, the system will notify the administrator by SMS text message. The limit counter will automatically reset once the date and time synchronization period takes effect (by default - every 30 days). Alternatively, you can reset the limits by referring to the following configuration method.

Reset SMS text message delivery limit counter



SMS text message content:

ssss_REMOVEBAN

Value: ssss - 4-digit SMS password.

Example: 1111_REMOVEBAN

NOTE: 0 value disables daily/monthly SMS text message delivery restrictions.

See also 9.1. Automatic Date and Time Synchronization.

27.2. SMSC (Short Message Service Center) Phone Number

An SMS center (SMSC) is a GSM network element, which routes SMS text messages to the destination user and stores the SMS text message if the recipient is unavailable. Typically, the phone number of the SMS center is already stored in the SIM card provided by the GSM operator. If the user fails to receive replies from the system, the SMS center phone number, provided by the GSM operator, must be set manually.

Set SMSC phone number



SMS text message content:

ssss_SMS_+ttteeellnnuumm

Value: ssss - 4-digit SMS password; ttteeellnnuumm - up to 15 digits SMSC phone number. **Example:** 1111_SMS_+44170311XXXX1

ATTENTION: Before setting the SMSC phone number, please check the credit balance of the system's SIM card. The system will fail to reply if the credit balance is insufficient.

28. EVENT AND ALARM LOG

28.1. Event Log

The event log allows to chronologically register up to 500 timestamped records regarding the following system events:

- System start.
- System arming/disarming.
- Zone violated/restored.
- Tamper violated/restored.
- Zone bypassing.
- · Wireless device management.
- Temperature deviation by MIN and MAX boundaries.
- · System faults.

The event log is of LIFO (last in, first out) type that allows the system to automatically replace the oldest records with the the latest ones.





Menu path:

 $OK \rightarrow mmmm \rightarrow OK \rightarrow VIEW EVENT LOG \rightarrow OK$

Value: mmmm - 4-digit master code.

To export the event log to .log file or clear it, please refer to the following configuration method.





This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

By default, event log is enabled. To disable/enable this feature, please refer to the following configuration methods.

Disable event log



Menu path:

 $OK \rightarrow IIII \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow EVENT LOG \rightarrow OK \rightarrow DISABLE \rightarrow OK$

Value: iiii - 4-digit installer code.



Enter parameter 36 and parameter status value:

360#

Example: 360#



EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable event log



Menu path:

 $OK \rightarrow iiii \rightarrow OK \rightarrow PRIMARY SETTINGS \rightarrow OK \rightarrow EVENT LOG \rightarrow OK \rightarrow ENABLE \rightarrow OK$

Value: iiii - 4-digit installer code.

EKB3/

Enter parameter 36 and parameter status value:

361#

Example: 361#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

28.2. Alarm Log

The alarm log provides a list of last 16 alarm events generated after last arming period. The alarm log can be viewed via EKB2 and includes only the alarms of the partition that the user/master code is assigned to. Each alarm record includes alarm type, partition number and zone number. When highlighted, the date and time of the alarm occurrence can be viewed at the bottom of EKB2 screen. In case of alarm, log auto-clears when the next system arming follows or after viewing it via the keypad.

View alarm log



Menu path:

 $OK \rightarrow uumm \rightarrow OK \rightarrow ALARM LOG \rightarrow OK$

Value: uumm - 4-digit user/master code.

Syntax of alarm log record: [alarm-type P:p Z:nn]

Value: alarm-type - BURGLARY/FIRE/24H/SILENT/TAMPER/WS LOST, p - partition number, range - [1... 4], nn - zone/tamper number, range - [1... 76].

#1 example of alarm log record: BURGLARY P:1 Z:1

Value: BURGLARY - Instant, Int. Follower or Delay-type zone alarm; P:1 - Partition 1; Z:1 - zone Z1.

#2 example of alarm log record: TAMPER P:2 Z:13

Value: TAMPER - tamper alarm; P:2 - Partition 2; Z:13 - tamper 13.

#3 example of alarm log record: FIRE P:4 Z:9

Value: FIRE - Fire-type zone alarm; P:4 - Partition 4; Z:9 - zone Z9.

#4 example of alarm log record: WS LOST P:2 Z:14

Value: WS LOST - wireless signal loss alarm; P:2 - Partition 2; Z:14 - tamper 14.

29. INDICATION OF SYSTEM FAULTS

The system comes equipped with self-diagnostic feature allowing to indicate the presence of any system fault by the keypad as well as by SMS text message notification to the listed user phone number. By default the indication for all system faults is indicated on the keypad. To disable/enable the indication of a certain system fault, please refer to the following configuration method.

Disable/enable individual system fault indication on keypad



 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

ATTENTION: After enabling/disabling a certain system fault indication, it is necessary to restart the system locally by powering down and powering up the system the system or remotely (see 34. REMOTE SYSTEM RESTART).



To comply with EN50131-1 Grade 3 standard requirements, the system must be equipped with the following feature:

 System arming is blocked if any system fault exists. The user wil not be able to arm the system until all existing system faults are solved.

For complete list of EN50131-1 Grade 3 standard requirements and how to enable/disable the associated features, please refer to **35. EN 50131-1 GRADE 3.**



wi icon displayed in home screen view indicates presence of system and/or EWM1 device faults. In order to view the currently present system faults, please enter a valid user/master code to access menu section **FAULTS**. The description on each system fault is provided in the table below.

View system faults

Menu path:

 $OK \rightarrow uumm \rightarrow OK \rightarrow FAULTS \rightarrow OK$

Value: uumm - 4-digit user/master code.

| Name | Description |
|--------------------|--|
| MAIN POWER LOSS | Mains power is lost |
| LOW BATTERY | Low backup battery power - backup battery voltage is 10.5V or lower |
| BATTERY DEAD/MISS | Backup battery is not present or the battery voltage runs below 5V |
| BATTERY FAILED | Backup battery requires replacement - backup battery resistance is 2Ω or higher |
| SIREN FAILED | Siren is disconnected/broken |
| VIOLATED TAMPER | One or more tampers are violated |
| DATE/TIME NOT SET | Date/time not set |
| GSM CONNECT FAILED | GSM connection is lost |
| GSM ANTENNA FAILED | GSM/GPRS antenna is disconnected/broken |
| WLESS ANTENNA FAIL | Wireless antenna is disconnected/broken |
| KEYPAD LOST | Keypad is disconnected/broken |
| CO LEVEL CRITICAL | Critical level 4 of carbon monoxide (CO) concentration detected by EWF1CO is reached |
| EWM1 FAULT | One or more EWM1 device faults exist - enter this menu item to view the existing EWM1 device faults. |
| WLESS BATT LOW | Low wireless device battery power - battery level is running below 5% |

Alternatively, existing EWM1 device faults can be viewed by accessing menu section **FAULTS** of the PGM output associated with a certain EWM1 device.

View EWM1 faults

Menu path:

 $OK \rightarrow mmmm \rightarrow OK \rightarrow PGM OUTPUTS \rightarrow OK \rightarrow out-name \rightarrow OK \rightarrow FAULTS \rightarrow OK$

Value: mmmm - 4-digit master code; out-name - PGM output name associated with a certain EWM1 device.

| Name | Description |
|--------------|--|
| OVERVOLTAGE | Voltage has increased above 260VAC |
| UNDERVOLTAGE | Voltage has dropped below 190VAC |
| OVERCURRENT | Current has increased above 12,5A |
| RELAY FAULT | Unable to power up the appliance due to faulty relay |
| TEMP. FAULT | Environmental temperature has dropped below -35°C (-31°F) or increased above $+90$ °C (+194°F) |

In order to clear the existing faults, please press the **(**) button on EWM1, turn OFF the electrical appliance or turn OFF the wireless PCM output associated with EWM1. For more details on EWM1 device, please refer to **19.9. EWM1 - Wireless Power Socket**.



Yellow LED SYSTEM indicates system faults. SYSTEM LED indications are mentioned in the table below.

| SYSTEM LED | Description |
|------------|---|
| Steady ON | One or more tampers are violated; other system faults (see below) |
| Flashing | One or more high-numbered zones (Z13-Z76) are violated |

In order to find out more on the particular system fault, please enter command A provided below. After this procedure the system will activate red zone LEDs for 15 seconds. The description on each LED indication is mentioned in the table below.

| Zone LED | Description |
|----------|---|
| 1 | Mains power is lost |
| 2 | Low backup battery power - backup battery voltage is 10.5V or lower |
| 3 | Backup battery is not present or the battery voltage runs below 5V |
| 4 | Backup battery requires replacement - backup battery resistance is 2Ω or higher |
| 5 | Siren is disconnected/broken |
| 7 | One or more tampers are violated |
| 8 | Date/time not set |
| 9 | One or more high-numbered zones (Z13-Z76) are violated |
| 10 | GSM connection is lost |
| 11 | GSM/GPRS antenna is disconnected/broken |
| 12 | Wireless antenna is disconnected/broken |

In order to find out which particular high-numbered zone is violated, please enter command B. In order to find out which particular tamper is violated, please enter command C.

A. System fault indication - enter command: [CODE#]

B. Violated high-numbered zone indication - enter command: [CODE1]

C. Violated tamper indication - enter command:

[CODE2]

The number of violated high-numbered zone or tamper can be calculated using the table below according to the formula: number from zone LED section B + number from zone LED section A.

Example: LED #3 from section A is flashing and LED #8 from section B is steady ON. According to the table below LED #8 is equal to number 18, therefore 18 + 3 = 21.

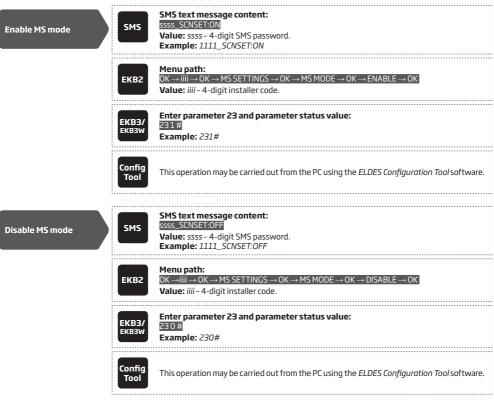
Result: Violated high-numbered zone or tamper number is 21.

| Zone LED section - A (flashing) | Zone LED section - B (steady ON) |
|---------------------------------|----------------------------------|
| Zone LED 1 = 1 | Zone LED 7 = 12 |
| Zone LED 2 = 2 | Zone LED 8 = 18 |
| Zone LED 3 = 3 | Zone LED 9 = 24 |
| Zone LED 4 = 4 | Zone LED 10 = 30 |
| Zone LED 5 = 5 | Zone LED 11 = 36 |
| Zone LED 6 = 6 | Zone LED 12 = 42 |

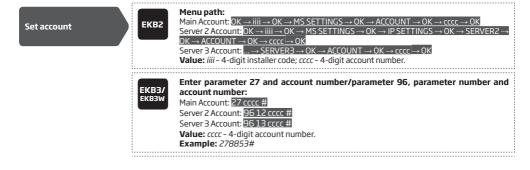
30. MONITORING STATION

The system can be configured to report events to the monitoring station by transmitting data messages to the monitoring station. The system connects to the monitoring station when the MS (Monitoring Station) mode is enabled.

When using the MS mode, the data messages transmitted to the monitoring station (see **30.1. Data Messages - Events**) will gain the highest priority for the delivery, therefore based on the communication method (see **30.2. Communication**), a constant and stable connection with the monitoring station must be ensured. In case of connection failure, the system will attempt to restore the connection and if the monitoring is unavailable for a lengthy period of time, the system might consume a large amount of voice calls/data resulting in additional charges applied by the GSM operator according to the cell phone service plan.



Account is a 4-digit number (By default - 9999) required to identify the alarm system unit by the monitoring station. Server 2 Account and Server 3 Account are used only when GPRS network method is selected and when necessary to set up to 3 server IP addresses (see 30.2.1. GPRS Network and ELAN3-ALARM)





ATTENTION: The system will NOT send any data to the monitoring station while remote connection, remote firmware update or remote listening/2-way voice communication is in progress. However, during the remote connection session or remote listening/2-way voice communication process, the data messages will be queued up and transmitted to the monitoring station after the remote connection session or remote listening/2-way voice communication process is over, while during the remote firmware update process NO data will be queued up and all data messages will be lost.

ATTENTION: Phone calls via GSM network to the listed user phone number in case of alarm are disabled by force when MS mode is enabled.

NOTE: Additional charges may apply for voice calls/data traffic based on your cell phone service plan when using the MS mode.

30.1. Data Messages - Events

The configuration of data messages is based on Ademco Contact ID protocol. The data messages can either be transmitted to the monitoring station alone or with duplication by SMS text message to listed user phone number. For more details on system notifications by SMS text message, please refer to **27. SYSTEM NOTIFICATIONS**.

| Seq. No. | Event Code | Event | Description |
|----------|------------|--------------------------------|--|
| 1 | 1110 | Fire alarm | Transmitted in case a zone of Fire type is violated. |
| 2 | 3110 | Fire restore | Transmitted in case a zone of Fire type is restored. |
| 3 | 1121 | Disarmed by user (Duress code) | Transmitted in case the system is disarmed by Duress code. |
| 4 | 3121 | Armed by user (Duress code) | Transmitted in case the system is armed by Duress code. |
| 5 | 1130 | Burglary alarm | Transmitted in case a zone of Delay (if not disarmed before entry delay countdown is completed), Interior Follower or Instant type is violated. |
| 6 | 3130 | Burglary restore | Transmitted in case a zone of Delay (if not disarmed before entry delay count- down is completed), Interior Follower or Instant type is restored. |
| 7 | 1133 | 24-Hour zone alarm | Transmitted in case of zone of 24-Hour type is violated. |
| 8 | 3133 | 24-Hour zone restore | Transmitted in case of zone of 24-Hour type is restored. |
| 9 | 1144 | Tamper alarm | Transmitted in case the tamper is violated. |
| 10 | 3144 | Tamper restore | Transmitted in case the tamper is restored. |
| 11 | 1146 | Panic/Silent zone alarm | Transmitted in case of zone of Panic/Silent type is violated |
| 12 | 3146 | Panic/Silent zone restore | Transmitted in case of zone of Panic/Silent type is restored. |
| 13 | 1150 | Report/Control zone trigger | Transmitted in case of zone of Report/Control type is triggered. |
| 14 | 3150 | Report/Control zone restore | Transmitted in case of zone of Report/Control type is restored. |
| 15 | 1158 | Temperature risen | Transmitted in case of the temperature has increased above the MAX set value. |
| 16 | 1159 | Temperature fallen | Transmitted in case of temperature has decreased below the MIN set value. |
| 17 | 1162 | CO level critical | Transmitted in case the critical level 4 of carbon monoxide (CO) concentration detected by EWF1CO is reached. |
| 18 | 1301 | Mains power loss | Transmitted in case the mains power is lost. |
| 19 | 3301 | Mains power restore | Transmitted in case the mains power is restored. |
| 20 | 1302 | Low battery | Transmitted in case the backup battery voltage is 10.5V or lower / the wireless device battery level runs below 5%. |
| 21 | 1308 | System shutdown | When the system is running on backup battery power, it transmits the data message before the backup battery power is fully depleted. |
| 22 | 1309 | Battery failed | Transmitted in case the backup battery resistance is 2Ω or higher. |
| 23 | 1311 | Battery dead or missing | Transmitted in case the backup battery is not present or the battery voltage runs below 5V. |
| 24 | 3311 | Battery connection restore | Transmitted in case the backup battery connection is fixed. |
| 25 | 1321 | Siren fail | Transmitted in case the siren is disconnected/broken. |
| 26 | 3321 | Siren restore | Transmitted in case the siren is connected/fixed. |
| 27 | 1330 | Keypad fail | Transmitted in case the keypad is disconnected/broken. |
| 28 | 3330 | Keypad restore | Transmitted in case the keypad is connected/fixed |
| 29 | 1354 | GPRS connection loss | Transmitted in case the GPRS connection is lost. |
| 30 | 1358 | GSM connection failed | Transmitted in case the GSM connection is lost. |
| 31 | 1359 | GSM/GPRS antenna fail | Transmitted in case the GSM/GPRS antenna is disconnected/broken |

| 32 | 3359 | GSM/GPRS antenna restore | Transmitted in case the GSM/GPRS antenna is connected/fixed. |
|----|------|-----------------------------|---|
| 33 | 1380 | CO sensor lifetime exceeded | Transmitted in case the lifetime of EWF1CO built-in CO sensor is expired. |
| 34 | 1381 | Wireless signal loss | Transmitted in case the connection with any wireless device is lost. |
| 35 | 3381 | Wireless signal restore | Transmitted in case the connection with any wireless device is restored. |
| 36 | 1401 | Disarmed by user | Transmitted in case the system is disarmed. |
| 37 | 3401 | Armed by user | Transmitted in case the system is armed. |
| 38 | 1441 | Disarmed in Stay mode | Transmitted in case the system is disarmed in Stay mode. |
| 39 | 3441 | Armed in Stay mode | Transmitted in case the system is armed in Stay mode. |
| 40 | 3456 | Armed by user (partial arm) | Transmitted in case the system is armed, while violated zone (-s) with Force attribute enabled exist. |
| 41 | 3463 | SGS code entered | Transmitted in case the SGS code is entered. |
| 42 | 1570 | Zone bypassed | Transmitted in case a violated zone is bypassed. |
| 43 | 3570 | Bypassed zone activated | Transmitted in case a bypassed zone is activated. |
| 44 | 3602 | Test event/Kronos ping | Transmitted for system online status verification purposes. |
| 45 | 3626 | Date/time not set | Transmitted in case system date and time is not set. |
| 46 | 1900 | System started | Transmitted on system startup. |

The following table refers to user IDs included in arm/disarm data messages.

| Туре | ID |
|----------------------|----|
| User Phone Number 1 | 0 |
| User Phone Number 2 | 1 |
| User Phone Number 3 | 2 |
| User Phone Number 4 | 3 |
| User Phone Number 5 | 4 |
| User Phone Number 6 | 5 |
| User Phone Number 7 | 6 |
| User Phone Number 8 | 7 |
| User Phone Number 9 | 8 |
| User Phone Number 10 | 9 |
| iButton 1 | 10 |
| iButton 2 | 11 |
| iButton 3 | 12 |
| iButton 4 | 13 |
| iButton 5 | 14 |
| iButton 6 | 15 |
| iButton 7 | 16 |
| iButton 8 | 17 |
| iButton 9 | 18 |
| iButton 10 | 19 |
| iButton 11 | 20 |
| iButton 12 | 21 |
| iButton 13 | 22 |
| iButton 14 | 23 |
| iButton 15 | 24 |
| iButton 16 | 25 |
| Master Code | 26 |
| User Code 2 | 27 |
| User Code 3 | 28 |
| User Code 4 | 29 |
| User Code 5 | 30 |
| User Code 6 | 31 |

| Туре | ID |
|---------------------------|---------|
| User Code 7 | 32 |
| User Code 8 | 33 |
| User Code 9 | 34 |
| User Code 10 | 35 |
| User Code 11 | 36 |
| User Code 12 | 37 |
| User Code 13 | 38 |
| User Code 14 | 39 |
| User Code 15 | 40 |
| User Code 16 | 41 |
| User Code 17 | 42 |
| User Code 18 | 43 |
| User Code 19 | 44 |
| User Code 20 | 45 |
| User Code 21 | 46 |
| User Code 22 | 47 |
| User Code 23 | 48 |
| User Code 24 | 49 |
| User Code 25 | 50 |
| User Code 26 | 51 |
| User Code 27 | 52 |
| User Code 28 | 53 |
| User Code 29 | 54 |
| User Code 30 | 55 |
| Remote Code (EGR100) | 56 |
| KeyFob 1 | 87 |
| KeyFob 2 | 88 |
| KeyFob 3 | 89 |
| KeyFob 4 | 90 |
| KeyFob 5 | 91 |
| Arm/Disarm by Zone Z1-Z76 | 163-239 |

Disable data message

Menu pat Burglary al

Burglary alarm/restore: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow DATA$ MESSAGES $1 \rightarrow OK \rightarrow DATA$

BURGLR ALM/REST EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Mains power loss/restore: ... \rightarrow MAIN POWER L/R EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Armed/disarmed by user: ... \rightarrow ARM/DISARM EVENT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Battery failed: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow DISABLE \rightarrow OK

Battery dead or missing/battery connection restore: ... \rightarrow BATTERY DEAD/MISS \rightarrow OK \rightarrow DISABLE \rightarrow OK

Test event: ... \rightarrow TEST EVENT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Tamper alarm/restore: ... \rightarrow TAMPER ALM/REST EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Panic/Silent zone alarm/restore: ... → PA/SIL ALM/REST EV → OK → DISABLE → OK

System started: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Fire alarm/restore: ... \rightarrow FIRE ALM/REST EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

24-Hour zone alarm/restore: ... → 24H ALM/REST EVENT → OK → DISABLE → OK

Low battery: ... \rightarrow LOW BATTE RY EVENT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Temperature risen: ... \rightarrow TEMP HIGH EVENT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Temperature fallen: ... \rightarrow TEMP LOW EVENT \rightarrow OK \rightarrow DISABLE \rightarrow OK

Wireless signal loss/restore: ... \rightarrow WLESS SIGN L/R EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Disarmed by user (Duress code): $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow DATA$ MESSAGES 2 \rightarrow

 $OK \rightarrow DISARM DURESS EV \rightarrow OK \rightarrow DISABLE \rightarrow OK$

SGS code entered: ... → ARM/DARM SGS EVENT → OK → DISABLE → OK

Armed by user (partial arm): ... \rightarrow ARM PARTIAL EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Siren fail/restore: ... → SIREN FAIL/REST EV → OK → DISABLE → OK

Date/time not set: ... \rightarrow DATE/ TIME NOT SET \rightarrow OK \rightarrow DISABLE \rightarrow OK GSM connection failed: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow DISABLE \rightarrow OK

GSM/GPRS antenna fail/restore: ... → GSM ANT FAIL/REST → OK → DISABLE → OK

System shutdown: ... \rightarrow SYSTEM SHUTDOWN EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Keypad fail/restore: ... \rightarrow KEYPAD FAIL/REST \rightarrow OK \rightarrow DISABLE \rightarrow OK

 $\textbf{GPRS connection failed:} ... \rightarrow \textbf{GPRS CONNECT FAIL} \rightarrow \textbf{OK} \rightarrow \textbf{DISABLE} \rightarrow \textbf{OK}$

Zone bypassed/activated: ... \rightarrow ZONE BYPASS \rightarrow OK \rightarrow DISABLE \rightarrow OK CO sensor lifetime exceeded: ... \rightarrow CO SENS LFTIME EXC \rightarrow OK \rightarrow DISABLE \rightarrow OK

CO level critical: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow DISABLE \rightarrow OK

Report/Control zone triggered/restored: ... \rightarrow REPORT/CTRL TRIG \rightarrow OK \rightarrow DISABLE \rightarrow OK

Armed/disarmed in STAY mode: : ... \rightarrow ARM/DARM STAY EV \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W

Enter parameter 24, event number and parameter status value:

24 01 0 # - Burglary alarm/restore

24 02 0 # - Mains power loss/restore

24 03 0 # - Armed/disarmed by user

24 04 0 # - Test event

24 05 0 # - Battery failed

24 06 0 # -Battery dead or missing/battery connection restore

24 07 0 # - Tamper alarm/restore

24 08 0 # - Panic/Silent zone alarm/restore

24 09 0 # - Kronos pina

24100# - System started

24130# - 24-Hour zone alarm/restore

24 14 0 # - Fire zone alarm/restore

24 15 0 # - Low battery

24 16 0 # -Temperature risen

24170# - Temperature fallen

24 18 0 # - Wireless signal loss/restore

24 19 0 # - Disarmed by user (Duress code)

24 20 0 # - SGS code entered

24 21 0 # - Armed by user (partial arm)

24 22 0 # - Siren fail/restore

24 24 0 # -Date/time not set

24 25 0 # - GSM connection failed

24 26 0 # - GSM/GPRS antenna fail/restore

24 27 0 # - System shutdown

24 28 0 #- Keypad fail/restore

24 29 0 # - GPRS connection failed

24 31 0 # - Zone bypassed/activated

24 32 0 # - CO sensor lifetime exceeded

24 33 0 # - CO level critical

24 34 0 # - Report/Control zone triggered/restored

24 35 0 # - Armed/disarmed in STAY mode

Example: 24080#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable data message

EKB2

Burglary alarm/restore: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow DATA$ MESSAGES $1 \rightarrow OK \rightarrow DATA$ MESSAGES $1 \rightarrow OK \rightarrow DATA$ BURGLR ALM/REST EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Mains power loss/restore: ... \rightarrow MAIN POWER L/R EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Armed/disarmed by user: ... \rightarrow ARM/DISARM EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Battery failed: ... \rightarrow BATTERY FAILED \rightarrow OK \rightarrow ENABLE \rightarrow OK

Battery dead or missing/battery connection restore: ... o BATTERY DEAD/MISS o OK oENABLE → OK

Test event: ... \rightarrow TEST EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Tamper alarm/restore: ... \rightarrow TAMPER ALM/REST EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Panic/Silent zone alarm/restore: ... \rightarrow PA/SIL ALM/REST EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

System started: ... \rightarrow SYSTEM STARTED EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Fire alarm/restore: ... \rightarrow FIRE ALM/REST EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

24-Hour zone alarm/restore: ... → 24H ALM/REST EVENT → OK → ENABLE → OK

Low battery: ... \rightarrow LOW BATTE RY EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Temperature risen: ... \rightarrow TEMP HIGH EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Temperature fallen: ... \rightarrow TEMP LOW EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Wireless signal loss/restore: ... \rightarrow WLESS SIGN L/R EV \rightarrow OK \rightarrow ENABLE \rightarrow OK Disarmed by user (Duress code): $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow DATA$ MESSAGES 2 \rightarrow

 $\mathsf{OK} \to \mathsf{DISARM} \; \mathsf{DURESS} \; \mathsf{EV} \to \mathsf{OK} \to \mathsf{ENABLE} \to \mathsf{OK}$

SGS code entered: ... \rightarrow ARM/DARM SGS EVENT \rightarrow OK \rightarrow ENABLE \rightarrow OK

Armed by user (partial arm): ... \rightarrow ARM PARTIAL EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Siren fail/restore: ... \rightarrow SIREN FAIL/REST EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Date/time not set: ... \rightarrow DATE/TIME NOT SET \rightarrow OK \rightarrow ENABLE \rightarrow OK

GSM connection failed: ... \rightarrow GSM CONNECT FAILED \rightarrow OK \rightarrow ENABLE \rightarrow OK

GSM/GPRS antenna fail/restore: ... → GSM ANT FAIL/REST → OK → ENABLE → OK

System shutdown: ... \rightarrow SYSTEM SHUTDOWN EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Keypad fail/restore: ... \rightarrow KEYPAD FAIL/REST \rightarrow OK \rightarrow ENABLE \rightarrow OK

GPRS connection failed: ... \rightarrow GPRS CONNECT FAIL \rightarrow OK \rightarrow ENABLE \rightarrow OK

Zone bypassed/activated: ... \rightarrow ZONE BYPASS \rightarrow OK \rightarrow ENABLE \rightarrow OK

CO sensor lifetime exceeded: ... \rightarrow CO SENS LFTIME EXC \rightarrow OK \rightarrow ENABLE \rightarrow OK

CO level critical: ... \rightarrow CO LEVEL CRITICAL \rightarrow OK \rightarrow ENABLE \rightarrow OK

Report/Control zone triggered/restored: ... \rightarrow REPORT/CTRL TRIG \rightarrow OK \rightarrow ENABLE \rightarrow OK

Armed/disarmed in STAY mode: : ... \rightarrow ARM/DARM STAY EV \rightarrow OK \rightarrow ENABLE \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W

Enter parameter 24, event number and parameter status value:

24 01 1 # - Burglary alarm/restore

24 02 1 # - Mains power loss/restore

24 031 # - Armed/disarmed by user

24 04 1 # - Test event

24 05 1 # - Battery failed

24 06 1 # - Battery dead or missing/battery connection restore

24 07 1 # - Tamper alarm/restore

24 08 1 # - Panic/Silent zone alarm/restore

24 09 1 # - Kronos ping

24101# - System started

24131# - 24-Hour zone alarm/restore

24 14 1 # - Fire zone alarm/restore

24151# - Low battery

24 16 1 # - Temperature risen

24171# - Temperature fallen

24181# - Wireless signal loss/restore

24191# - Disarmed by user (Duress code)

24 20 1 # - SGS code entered

24 21 1 # - Armed by user (partial arm)

24 22 1 # - Siren fail/restore

24 24 1 # -Date/time not set

24 25 1 # - GSM connection failed

24 26 1 # - GSM/GPRS antenna fail/restore

24 27 1 # - System shutdown

24 28 1 # - Keypad fail/restore

24 29 1 # - GPRS connection failed

24 31 1 # - Zone bypassed/activated

24 32 1 # - CO sensor lifetime exceeded

24 33 1 # - CO level critical

24341# - Report/Control zone triggered/restored

24 35 1 # - Armed/disarmed in STAY mode

Example: 24031#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

30.2. Communication

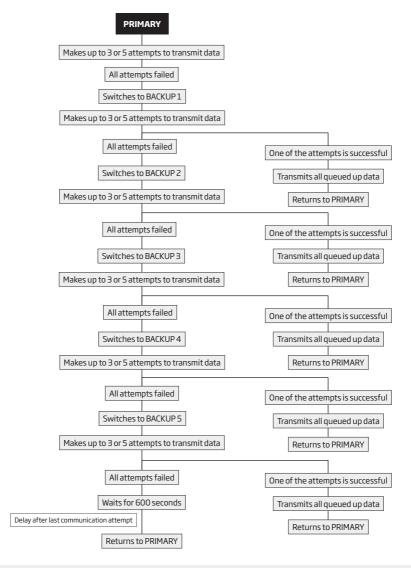
The system supports the following communication methods and protocols:

- GPRS network EGR100, Kronos, SIA IP protocol (ANSI/SIA DC-09-2007; configurable as encrypted and non-encrypted).
- Voice calls (GSM audio channel) Ademco Contact ID protocol.
- CSD (Circuit Switched Data).
- PSTN (landline) Ademco Contact ID protocol.
- · SMS Cortex SMS format.
- ELAN3-ALARM EGR100, Kronos, SIA IP protocol (ANSI/SIA DC-09-2007; configurable as encrypted and non-encrypted).

Any communication method can be set as primary or backup connection. The user can set up to 5 backup connections in any sequence order.

Initially, the system communicates via primary connection with the monitoring station. By default, if the initial attempt to transmit data is unsuccessful, the system will make additional attempts until the data is successfully delivered. If all attempts are unsuccessful, the system will follow this pattern:

- a) The system switches to the backup connection that follows in the sequence (presumably Backup 1).
- b) The system then attempts to transmit data by the backup connection.
- c) If the initial attempt is unsuccessful, the system will make additional attempts until the data is successfully delivered.
- d) If the system ends up with all unsuccessful attempts, it will switch to the next backup connection in the sequence (presumably Back-up 2) and will continue to operate as described in the previous steps. The connection is considered unsuccessful under the following conditions:
 - GPRS network/ELAN3-ALARM The system has not received the ACK data message from the monitoring station within 40 seconds.
 - Voice calls:
 - The system has not received the "handshake" signal from the monitoring station within 40 seconds.
 - The system has not received the "kissoff" signal from the monitoring station within 5 attempts each lasting 1 second.
 - CSD The system has not received the ACK data message from the monitoring station within 35 seconds.
 - PSTN:
 - The system has not received the "handshake" signal from the monitoring station within 40 seconds.
 - The system has not received the "kissoff" signal from the monitoring station within 5 attempts each lasting 1 second.
 - SMS The system has not received the SMS delivery report from the SMSC (Short Message Service Center) within 45 seconds.
- e) If one of the attempts is successful, the system will transmit all queued up data messages by this connection.
- f) The system then returns to the primary connection and attempts to transmit the next data messages by primary connection.
- g) If the system ends up with all unsuccessful attempts by all connections, it will wait until the Delay after last communication attempt time (By default - 600 seconds) expires and will return to the primary connection afterwards.
- h) If a new data message, except Test Event (ping), is generated during *Delay* after last communication attempt time, the system will immediately attempt to transmit it to the monitoring station, regardless of *Delay* after last communication attempt being in progress.



NOTE: The number of attempts, indicated in the diagram, are default and depends on the determined communication method.

NOTE: When using Dual-SIM feature, the Secondary SIM card is involved in the communication process. For more details, please refer to 31. DUAL SIM MANAGEMENT.

132 EN MANUAL ELDES ESIM364 v1.8

Set primary connection

Menu path: GPRS network - Server 1... 3: OK → iiii → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → IP1... IP3 → OK Voice calls: ... → PRIMARY CONNECTION → OK → VOICE CALLS → OK CSD: ... → PRIMARY CONNECTION → OK → CSD → OK PSTN: ... → PRIMARY CONNECTION → OK → PSTN → OK SMS: ... → PRIMARY CONNECTION → OK → SMS → OK ELAN3-ALARM: ... → PRIMARY CONNECTION → OK → ELAN3-ALARM → OK Value: iiii - 4-digit installer code. EKB3/ EKB3/ EKB3/ B1 # - GPRS network - Server 1 480 # - GPRS network - Server 1 481 # - Voice calls

48 1 # - Voice cai

48 4 # - PSTN

485#-SMS

486# - ELAN3-ALARM

487# - GPRS network - Server 2

488#-GPRS network - Server 3

Example: 484#



EKB2

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set backup connection 1... 5

Menu path:

GPRS network - Server 1... 3: OK → iiii → OK → MS SETTINGS → OK → BACKUP CONNECTION1...

 $5 \rightarrow 0K \rightarrow IP1...IP3 \rightarrow 0K$

Voice calls: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow VOICE CALLS \rightarrow OK

CSD: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow CSD \rightarrow OK PSTN: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow PSTN \rightarrow OK

SMS: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow SMS \rightarrow OK

ELAN3-ALARM: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow ELAN3-ALARM \rightarrow OK

connection not in use: ... \rightarrow BACKUP CONNECTION1... $5 \rightarrow$ OK \rightarrow N/A \rightarrow OK

Value: iiii - 4-digit installer code.



Enter parameter 83, backup connection slot number and communication method number:

83 bb 0 # - GPRS network - Server 1

83 bb 1 # - Voice calls

83 bb 3 # - CSD

83 bb 4 # - PSTN

83 bb 5 # - SMS

83 bb 6 # - ELAN3-ALARM

83 bb 7 # - GPRS network - Server 2

83 bb 8 # - GPRS network - Server 3

Value: bb - backup connection slot, range - [01... 05].

Example: 83024#



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

If all attempts by all set connections are unsuccessful, the system will wait until the delay time (By default - 600 seconds) expires and will attempt to transmit data to the monitoring station again starting with the primary connection.

| Set delay after last communication attempt | ЕКВ2 | Menu path: $0K \rightarrow 11111 \rightarrow 0K \rightarrow MS$ SETTINGS $\rightarrow 0K \rightarrow DELAY$ LAST ATTEMPT $\rightarrow 0K \rightarrow aaapp \rightarrow 0K$ Value: iiii - 4-digit installer code; $aaapp$ - duration of delay after last attempt, range - [0 65535] seconds. |
|--|----------------|---|
| | EKB3/ EKB3W | Enter parameter 69 and duration of delay after last attempt: 69 aaapp # Value: aaapp - duration of delay after last attempt, range - [0 65535] seconds. Example: 69200# |
| | Config Tool | This operation may be carried out from the PC using the <i>ELDES Configuration Tool</i> software. |

NOTE: 0 value disables delay after last communication attempt.

NOTE: The system is fully compatible with Kronos NET/Kronos LT monitoring station software for communication via GPRS network. When using a different monitoring station software, EGR100 middleware is required. EGR100 is freeware and can be downloaded at www.eldes.lt/en/download

30.2.1. GPRS Network and ELAN3-ALARM

The system supports up to 3 server IP addresses (applies to GPRS network method only) for data transmission to the monitoring station via IP-based networks by GPRS network or Ethernet connection using ELAN3-ALARM device. The supported data formats are the following:

- EGR100
- Kronos
- SIA IP

To set up the system for data transmission via GPRS network or Ethernet using ELAN3-ALARM, please follow the basic configuration steps:

- Enable MS Mode parameter (see 30. MONITORING STATION).
- Set 4-digit Main Account number (see 30. MONITORING STATION). If GPRS network is selected, you may set the Account for up to 3 servers individually.
- 3. Set Server 1 IP address, which is a public IP address of the machine running EGR100, Kronos or SIA IP-based monitoring station software. If GPRS network method is selected, you can set up to 3 server IP addresses in total.
- 4. Set Server 1 port, which is a port of the machine running EGR100, Kronos or SIA IP-based monitoring station software. If GPRS network is selected, you may set the port for up to 3 servers individually.
- 5. Select TCP or UDP protocol for Server 1. UDP is highly recommended for EGR100 and SIA IP data format. If GPRS network is selected, you may select the protocol for up to 3 servers individually.
- Select data format for Server 1: EGR100, Kronos or SIA IP. If GPRS network is selected, you may select the data format for up to 3 servers individually.
- 7. In case EGR100 is selected, set 4-digit Unit ID numbers. Unit ID number can be identical to Account number. If GPRS network is selected, you may set the Unit ID for up to 3 servers individually.
- 8. When using GPRS network connection, it is necessary to set up APN, user name and password provided by the GSM operator. Depending on the GSM operator, only APN might be required to set up .
- 9. In case EGR100 is selected, for security reasons it is highly recommended to set up the 4-digit encryption key matching the 4-digit encryption key set up in EGR100 middle-ware. In case of encryption key mismatch, the data delivered by the system will be rejected by EGR100 middle-ware. By default, the encryption key is not used.
- 10. In case GPRS network method is selected and more than one server IP address is set up, you may wish to enable parallel data transmission to all IP addresses simultaneously. By default, this feature is disabled, therefore the system will switch to the next IP address (if set up and selected in the connection priority sequence) in the event of failed connection with the previous server.

For detailed step-by-step instructions on how to establish the communication between ESIM364 alarm system and EGR100 middleware, please refer to the middleware's HELP file.

NOTE: ELAN3-ALARM method supports data transmission to Server IP 1 address ONLY. Data transmission to multiple server IP addresses is NOT supported by this method.

Set server IP address

SMS text message content: Server 1: ssss_SETGPRS:IP:add.add.add.add

Value: ssss - 4-digit SMS password; add.add.add.add - server IP address.

Example: 1111_SETGPRS:IP:65.82.119.5

Menu path: Server 1: OK

Server 1: OK → iiii → OK → MS SETTINGS → OK → IP SETTINGS → OK → SERVER1 → OK → SERVER IP → OK → add.add. add.add → OK

Server 2: ... \rightarrow SERVER2 \rightarrow OK \rightarrow SERVER IP \rightarrow OK \rightarrow add.add. add.add \rightarrow OK Server 3: ... \rightarrow SERVER3 \rightarrow OK \rightarrow SERVER IP \rightarrow OK \rightarrow add.add. add. add. add

Value: iiii - 4-digit installer code; add.add.add.add - server IP address.

EKB3/ EKB3W Enter parameter 40 and server IP address/parameter 96, parameter number and server IP address:

Server 1: 40 add add add add #

Server 2: 96 02 add add add add # Server 3: 96 03 add add add add #

Value: add add add add - server IP address.

Example: 40065082119005#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set server port

SMS

SMS text message content:

Server 1: ssss_SETGPRS:PORT:pprrt

Value: ssss - 4-digit SMS password; pprrt - server port number, range - [1... 65535].

Example: 1111_SETGPRS:PORT:5521

EKB2

Menu path:

Server 1·0K → iiii → 0K → MS SETTINGS → 0K → IP SETTINGS → 0K → SERVER1 → SERVER PORT → 0K → pprrt → 0K

Server 2: ... \rightarrow SERVER2 \rightarrow SERVER PORT \rightarrow OK \rightarrow pprrt \rightarrow OK Server 3: ... \rightarrow SERVER3 \rightarrow SERVER PORT \rightarrow OK \rightarrow pprrt \rightarrow OK

Value: iiii - 4-digit installer code; pprrt - server port number, range - [1... 65535].

EKB3/ EKB3W Enter parameter 44 and server port number/parameter 96, parameter number and port number:

Server 1: 44 pprrt # Server 2: 96 04 pprrt #

Server 3: 96 05 pprrt #

Value: pprrt - server port number, range - [1... 65535].

Example: 443365#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set DNS1 server IP address



Menu path:

 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{GPRS}$ SETTINGS $o \mathsf{OK} o \mathsf{DNS1} o \mathsf{OK} o \mathsf{add}$. add. add $o \mathsf{OK}$

Value: iiii - 4-digit installer code; add.add.add.add - DNS1 server IP address.

EKB3/ EKB3W Enter parameter 41 and DNS1 server IP address:

41 add add add add #

Value: add add add add - DNS1 server IP address.

Example: 41065082119001#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set DNS2 server IP address

EKB2

Menu path:

 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{GPRS} \mathsf{SETTINGS} o \mathsf{OK} o \mathsf{DNS2} o \mathsf{OK} o \mathsf{add.} \mathsf{add.add.} \mathsf{add} o \mathsf{OK}$

Value: iiii - 4-digit installer code; add.add.add - DNS2 server IP address.

EKB3/ EKB3W Enter parameter 42 and DNS2 server IP address:

42 add add add add #

Value: add add add - DNS2 server IP address.

Example: 41065082119002#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set protocol

SMS

SMS text message content:

Server 1: ssss_SETGPRS:PROTOCOL:ptc

Value: ssss - 4-digit SMS password; ptc - protocol, range - [TCP... UDP].

Example: 1111_SETGPRS:PROTOCOL:UDP

EKB2

Menu path:

Server 1: OK → iiii → OK → MS SETTINGS → OK → IP SETTINGS → OK → SERVER1→ OK →

 $\mathsf{PROTOCOL} \to \mathsf{OK} \to \mathsf{TCP} \mid \mathsf{UDP} \to \mathsf{OK}$

Server 2: ... \rightarrow SERVER2 \rightarrow OK \rightarrow PROTOCOL \rightarrow OK \rightarrow TCP | UDP \rightarrow OK

Server 3: ... \rightarrow SERVER3 \rightarrow OK \rightarrow PROTOCOL \rightarrow OK \rightarrow TCP | UDP \rightarrow OK

Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter parameter 43 and protocol number/parameter 96, parameter number and protocol number:

Server 1: 43 0 # - TCP | 43 1 # - UDP

Server 2: 96 06 0 # - TCP | 96 06 1 # - UDP

Server 3: 96 07 0 # - TCP | 96 07 1 # - UDP

Example: 431#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set data format as Kronos, EGR100 or SIA IP Config Tool

 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

Manage SIA IP data format parameters

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set encryption key for EGR100 data format Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

ATTENTION: It is necessary to restart the system locally by powering down and powering up the system the system or remotely (see 34. REMOTE SYSTEM RESTART) after changing the IP address or switching from TCP to UDP.

NOTE: Kronos NET/Kronos LT software communicates via TCP protocol, while EGR100 middle-ware v1.2 and up supports both – TCP and UDP protocols. However, TCP protocol is NOT recommend to use with EGR100.

By default, if the initial attempt to transmit data to the monitoring station via GPRS network or Ethernet method is unsuccessful, the system will make up to 2 additional attempts. If all attempts are unsuccessful, the system will switch to next backup connection that follows in the sequence and will attempt to transmit data until it is successfully delivered to the monitoring station.

Set attempts

Menu path:

Server 1: $OK \rightarrow IIII \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow IP$ SETTINGS $\rightarrow OK \rightarrow SERVER1 \rightarrow OK \rightarrow IP$ ATTEMPTS $\rightarrow OK \rightarrow att \rightarrow OK$ Server 2: ... \rightarrow SERVER2 $\rightarrow OK \rightarrow IP$ ATTEMPTS $\rightarrow OK \rightarrow att \rightarrow OK$ Server 3: ... \rightarrow SERVER3 $\rightarrow OK \rightarrow IP$ ATTEMPTS $\rightarrow OK \rightarrow att \rightarrow OK$ Value: IIII − 4-digit installer code; att – number of attempts, range – [1... 255].

EKB3/ EKB3W Enter parameter 68 and number of attempts/parameter 96, parameter number and number of attempts:

Server 1: 68 att # Server 2: 96 08 att # Server 3: 96 09 att #

Value: att - number of attempts, range - [01... 255].

Example: 6809#

Config Tool

 $This \, operation \, may \, be \, carried \, out \, from \, the \, PC \, using \, the \, \textit{ELDES Configuration Tool} \, software.$

To report the online status, the system periodically transmits (By default - every 180 seconds) Test Event data message (ping) to the monitoring station via GPRS network or Ethernet.

Set test period

Menu path: Server 1: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow IP$ SETTINGS $\rightarrow OK \rightarrow SERVER1 \rightarrow OK \rightarrow TEST$ EKB2 $PERIOD \rightarrow OK \rightarrow tteessttpp \rightarrow OK$ Server 2: ... \rightarrow SERVER2 \rightarrow OK \rightarrow TEST PERIOD \rightarrow OK \rightarrow tteessttpp \rightarrow OK Server 3: ... \rightarrow SERVER3 \rightarrow OK \rightarrow TEST PERIOD \rightarrow OK \rightarrow threesesttpp \rightarrow OK Value: iiii - 4-digit installer code; tteessttpp - test period, range - [0... 65535] seconds. Enter parameter 46 and number of attempts/parameter 96, parameter number EKB3/ and number of attempts: EKB3W Server 1: 46 tteessttpp # Server 2: 96 10 tteessttpp # Server 3: 96 11 tteessttpp # Value: tteessttpp - test period, range - [0... 65535] seconds. Example: 46120# Config This operation may be carried out from the PC using the ELDES Configuration Tool software. Tool

NOTE: 0 value disables test period. However, disabling the test period is HIGHLY UNRECOMMENDED.

Unit ID is a 4-digit number (By default - 0000) required to identify the alarm system unit by EGR100 middle-ware. It is MANDATORY to change the default Unit ID before using EGR100.

Set unit ID

Menu path: Server 1: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow IP$ SETTINGS $\rightarrow OK \rightarrow SERVER1 \rightarrow OK \rightarrow UNIT$ EKB2 $ID \rightarrow OK \rightarrow unid \rightarrow OK$ Server 2: ... \rightarrow SERVER2 \rightarrow OK \rightarrow UNIT ID \rightarrow OK \rightarrow unid \rightarrow OK Server 3: ... \rightarrow SERVER3 \rightarrow OK \rightarrow UNIT ID \rightarrow OK \rightarrow unid \rightarrow OK Value: iiii - 4-digit installer code; unid - 4-digit unit ID number. Enter parameter 47 and unit ID number/parameter 96, parameter number and unit EKB3/ ID number: EKB3W Server 1: 47 unid # Server 2: 96 14 unid # Server 3: 96 15 unid # Value: unid - 4-digit unit ID number. Example: 472245#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

For communication via GPRS network, the GPRS parameters provided by the GSM operator are necessary to be set up. To set those parameters, please refer to the following configuration methods.

Set APN

SMS

SMS text message content:

ssss_SETGPRS:APN:acc-point-name

Value: ssss - 4-digit SMS password; acc-point-name - up to 31 character APN (Access Point Name) provided by the GSM operator.

Example: 1111_SETGPRS:APN:internet

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set user name

SMS

SMS text message content: ssss_SETGPRS:USER:usr-name

Value: ssss - 4-digit SMS password; usr-name - up to 31 character user name provided by

the GSM operator.

Example: 1111_USER:mobileusr

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Set password

SMS

SMS text message content:

ssss_SETGPRS:PSW:password

Value: ssss - 4-digit SMS password; password - up to 31 character password provided by

the GSM operator.

Example: 1111 SETGPRS:PSW:mobilepsw

Confia Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

View IP and GPRS network settings

SMS

SMS text message content:

ssss_SETGPRS?

Example: 1111 SETGPRS?

EKB2

Menu path: SERVER IP

Server IP: OK -

Server port: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow IP$ SETTINGS $\rightarrow OK \rightarrow SERVER1... 3 <math>\rightarrow OK$ → SERVER PORT

DNS1: $OK \rightarrow iiii \rightarrow OK \rightarrow GPRS SETTNGS \rightarrow OK \rightarrow DNS1$

DNS2: $OK \rightarrow iiii \rightarrow OK \rightarrow GPRS SETTNGS \rightarrow OK \rightarrow DNS2$

Protocol: $OK \rightarrow iiii \rightarrow OK \rightarrow MS$ SETTINGS $\rightarrow OK \rightarrow IP$ SETTINGS $\rightarrow OK \rightarrow SERVER1.. 3 \rightarrow OK \rightarrow IP$ PROTOC<u>O</u>L

APN: $OK \rightarrow iiii \rightarrow OK \rightarrow GPRS SETTINGS \rightarrow OK \rightarrow APN$

User name: $OK \rightarrow iiii \rightarrow OK \rightarrow GPRS SETTINGS \rightarrow OK \rightarrow USERS$

Password: $OK \rightarrow iiii \rightarrow OK \rightarrow GPRS SETTINGS \rightarrow OK \rightarrow PASSWORD$

Value: iiii - 4-digit installer code.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Enable parallel data transmission



Menu path:

 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{MS}$ SETTINGS $o \mathsf{OK} o \mathsf{IP}$ SETTINGS $o \mathsf{OK} o \mathsf{PARAL.DS}$.SETTINGS $o \mathsf{OK} PARAL.DS.MODE \rightarrow OK \rightarrow ENABLE \rightarrow OK$

Value: iiii - 4-digit installer code.

EKB3/ EKB3W Enter command 96, parameter number and parameter status value:

96011#

Example: 96011#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Disable parallel data transmission



Menu nath:

 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{MS}$ SETTINGS o OK o IP SETTINGS o OK o PARAL.DS.SETTINGS o OK -PARAL.DS.MODE \rightarrow OK \rightarrow DISABLE \rightarrow OK

Value: iiii - 4-digit installer code

EKB3/ FKR3W Enter command 96, parameter number and parameter status value:

96 01 0 #

Example: 96010#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

30.2.2. Voice Calls and SMS

The system supports up to 3 monitoring station phone numbers for communication with the alarm system by Voice Calls or SMS communication method using Ademco Contact ID or Cortex SMS data format respectively. Tel. Number 1 is mandatory, the other two can be used as backup phone numbers and are not necessary. The supported phone number formats are the following:

- International (with plus) The phone numbers must be entered starting with plus and an international country code in the following format: +[international code][area code][local number], example for UK: +44170911XXXX1. This format can be used when setting up the phone number by ELDES Configuration Tool software.
- International (with 00) The phone numbers must be entered starting with 00 and an international country code in the following format: 00[international code][area code][local number], example for UK: 0044170911XXXX1. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad.
- Local The phone numbers must be entered starting with an area code in the following format: [area code][local number], example for UK: 0170911XXXX1. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad and ELDES Configuration Tool software.

To set up the system for data transmission via Voice Calls or SMS, please follow the basic configuration steps:

- Enable MS Mode parameter (see **30. MONITORING STATION**).
- Set 4-digit Main Account number (see 30. MONITORING STATION).
- 3. Set Tel. Number 1... 3.

Set monitoring station phone number



Menu path:

OK ightarrow iiii ightarrow OK ightarrow OK ightarrow VOICE CALLS/SMS ST ightarrow OK ightarrow TEL. NUMBER 1... 3 ightarrow→ ttteeellnnuumm → OK

Value: iiii - 4-digit installer code; ttteeellnnuumm - up to 15 digits monitoring station phone number.

EKB3/ **EKB3W**

Enter parameter 26, phone number slot and phone number: 26 ps ttteeellnnuumm

Value: ps - phone number slot, range - [01... 03]; ttteeellnnuumm - up to 15 digits monitoring station phone number.

Example: 26010044170911XXXX1#



This operation may be carried out from the PC using the ELDES Configuration Tool software.

Delete monitoring station phone number



 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{MS}$ SETTINGS $o \mathsf{OK} o \mathsf{VOICE}$ CALLS/SMS ST $o \mathsf{OK} o \mathsf{TEL}$. NUMBER 1... 3 -

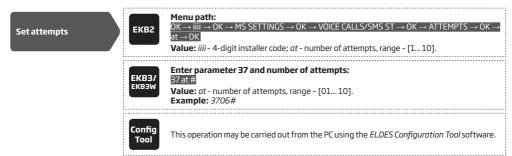
UK → UK

Value: iiii - 4-digit installer code.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

By default, if the initial attempt to transmit data to the monitoring station's Tel Number 1 via Voice Calls or SMS method is unsuccessful, the system will make up to 4 additional attempts. After all unsuccessful attempts, the system will continue to communicate with the monitoring station by switching to the next phone number that follows in the sequence and making up to 4 additional attempts if the initial attempt is unsuccessful. If all attempts to all phone numbers are unsuccessful, the system will switch to next backup connection that follows in the sequence and will attempt to transmit data until it is successfully delivered to the monitoring station.



Due to the individual configuration of each monitoring station, the system may fail to deliver the data message via Voice Calls communication method. In such cases it is recommended to adjust the microphone gain until the optimal value, leading to successful data message delivery, is discovered.

Set microphone gain

EKB2

Menu path:

OK → iiii → OK → PRIMARY SETT INGS → OK → GSM AUDIO → OK → MICROPHONE GAIN → OK → mg → OK

Value: iiii - 4-digit installer code; mg - microphone gain, range - [0... 15].

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

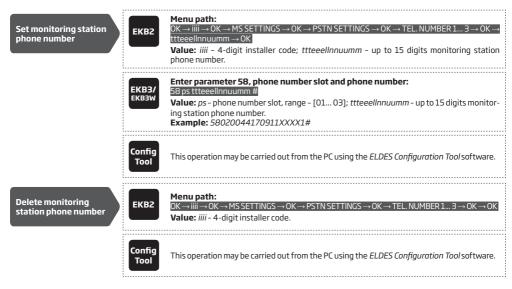
30.2.3. PSTN

The system supports up to 3 monitoring station phone numbers for communication with the alarm system by PSTN communication method using Ademco Contact ID data format. Tel. Number 1 is mandatory, the other two can be used as backup phone numbers and are not necessary. The supported phone number formats are the following:

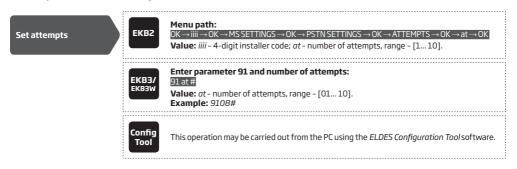
- International (with 00) The phone numbers must be entered starting with 00 and an international country code in the following
 format: 00[international code][area code][local number], example for UK: 0044170911XXXX1. This format can be used when setting
 up the phone number by EKB2/EKB3/EKB3W keypad and ELDES Configuration Tool software.
- Local The phone numbers must be entered starting with an area code in the following format: [area code][local number], example
 for UK: 0170911XXXX1. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad and ELDES Configuration Toolsoftware.

To set up the system for data transmission via PSTN, please follow the basic configuration steps:

- Enable MS Mode parameter (see 30. MONITORING STATION).
- Set 4-digit Main Account number (see 30. MONITORING STATION).
- 3. Set Tel. Number 1... 3.



By default, if the initial attempt to transmit data to the monitoring station's Tel Number 1 via PSTN method is unsuccessful, the system will make up to 4 additional attempts. After all unsuccessful attempts, the system will switch to the next phone number that follows in the sequence and will make up to 4 additional attempts if the initial attempt is unsuccessful. If all attempts to all phone numbers are unsuccessful, the system will switch to next backup connection that follows in the sequence and will attempt to transmit data until it is successfully delivered to the monitoring station.



Alternatively, the phone number entries can be treated as phone numbers for receiving calls in case of alarm. For more details on how this method operates, please refer to **17. ALARM INDICATIONS AND NOTIFICATIONS FOR USER.**

To enable/disable this feature, please refer to the following configuration method.

Enable/disable Treat **PSTN Call as User Call**



This operation may be carried out from the PC using the ELDES Configuration Tool software.

30.2.4.CSD

The system supports up to 5 monitoring station phone numbers for communication with the alarm system by CSD communication method. Tel. Number 1 is mandatory, the other four can be used as backup phone numbers and are not necessary. The supported phone number formats are the following:

- International (with plus) The phone number must be entered starting with plus and an international country code in the following format: + [international code] [local number], example for UK: +44170911XXXX1. This format can be used when setting up the content of the cthe phone number by ELDES Configuration Tool software.
- International (with 00) The phone number must be entered starting with 00 and an international country code in the following \bar{z} format: 00[international code][area code][local number], example for UK: 0044170911XXXX1. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad.

To set up the system for data transmission via CSD, please follow the basic configuration steps:

- Enable MS Mode parameter (see **30. MONITORING STATION**).
- Set 4-digit Main Account number (see 30. MONITORING STATION).
- Set Tel. Number 1... 5.

Set monitoring station phone number

Menu path:

 $OK \rightarrow iiii \rightarrow OK \rightarrow MS SETTINGS \rightarrow OK$ ttteeellnnuumm → OK

Value: iiii - 4-digit installer code; ttteeellnnuumm - up to 15 digits monitoring station phone number.

EKB3/ EKB3W

EKB2

Enter parameter 85, number of entry and phone number:

85 ps ttteeellnnuumm #

Value: ps - phone number slot, range - [01... 05]; ttteeellnnuumm - up to 15 digits monitoring station phone number.

Example: 85010044170911XXXX1#

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

Delete monitoring station phone number



Menu path:

 $\mathsf{OK} \! o \! \mathsf{iiii} \! o \! \mathsf{OK} \! o \! \mathsf{MS} \mathsf{SETTINGS} \! o \! \mathsf{OK} \! o \! \mathsf{CSD} \mathsf{SETTINGS} \! o \! \mathsf{OK} \! o \! \mathsf{CSD}$

Value: iiii - 4-digit installer code.

Config Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

By default, if the initial attempt to transmit data to the monitoring station's phone number via CSD method is unsuccessful, the system will make up to 4 additional attempts. If all attempts are unsuccessful, the system will switch to next backup connection that follows in the sequence and will attempt to transmit data until it is successfully delivered to the monitoring station.

Set attempts



 $\mathsf{OK} o \mathsf{iiii} o \mathsf{OK} o \mathsf{MS}$ SETTINGS $o \mathsf{OK} o \mathsf{CSD}$ SETTINGS $o \mathsf{OK} o \mathsf{ATTEMPTS} o \mathsf{OK} o \mathsf{at} o \mathsf{OK}$

Value: iiii - 4-digit installer code; at - number of attempts, range - [1... 10].

EKB3/ **EKB3W** Enter parameter 84 and number of attempts: 84 at #

Value: at - number of attempts, range - [01...10].

Example: 8403#

Confia Tool

This operation may be carried out from the PC using the ELDES Configuration Tool software.

31. DUAL SIM MANAGEMENT

The Dual-SIM feature allows the system to operate with one of the two inserted SIM cards identified as Primary SIM and Secondary SIM respectively. The Primary SIM card works as the main default card, while the Secondary SIM card is intended for backup purposes or addition to the Primary SIM card - SMS text message sending/calling to the listed user phone number and/or communication with the monitoring station.

The Dual-SIM feature can operate in one of the following modes:

- Disabled The Secondary SIM card will not be functional and the system operates with Primary SIM card only (by default enabled).
- Automatic The system switches between the SIM cards in case of a GSM connection or one of the SIM cards failure.
- Manual Provides a fully customizable set up of switching between the SIM cards. FOR ADVANCED USERS ONLY!

Manage Dual -SIM feature



This operation may be carried out from the PC using the ELDES Configuration Tool software.

NOTE: Regardless of the selected mode, only one of the two SIM cards can operate at the same time.

31.1. Disabled Mode

Disabled mode is the default system mode that does not involve the Secondary SIM in the communication process. When this mode is in use, the system will ignore the Secondary SIM card even if inserted in the SIM card slot.

For more details on how the system communicates with the user and the monitoring station in Disabled mode, please refer to 17. ALARM INDICATIONS AND NOTIFICATIONS FOR USER and 30.2. Communication respectively.

31.2. Automatic Mode

Automatic mode involves both SIM cards in the communication process. In this mode there is no Primary or Secondary SIM card hierarchy, since both cards are equal and the SIM card that is currently in use maintains the GSM connection at all time, unless a failure occurs and the other card would replace the previous one.

When one of the SIM card fails, the system attempts to re-establish a connection with it by starting an initial reconnection for a set number of attempts (by default - 3 attempts). If all attempts fail, the system will switch to the other SIM card. If the other SIM card is responsive and a GSM connection is successfully established, the system will remain operating with that SIM card until it fails. However, if the other SIM card is unresponsive or it is not present in the SIM card slot, the system will return to the previous SIM card and attempt to establish a GSM connection with it. If the system fails to carry out this action, after a single attempt it will switch to the other SIM card. This cycle continues until one of the SIM cards responds and a GSM connection is successfully established. When the SIM card fails, the system will once again attempt to restore the GSM connection for a set number of attempts (by default - 3 attempts). If all attempts fail, the cycle will continue as described previously.

In Automatic mode the priority is to transmit data to the monitoring station, but if an event, which requires the system to send an SMS text message occurs, the system will send the SMS text message via the SIM card that is currently in use. This can only be carried out under the following conditions:

- among the attempts to transmit data to the monitoring station (depending on communication method).
- while switching the monitoring station connections.
- · while switching between the SIM cards.

NOTE: ELDES Cloud Services will remain operational in Automatic mode, when used.

31.3. Manual Mode

Manual mode allows to use both - Primary and Secondary SIM cards and fully customize the algorithm of the communication. The system can be set up to send SMS text messages/call to the listed user phone number and/or communicate with the monitoring station as follows:

- Primary SIM Determines that the SMS text messages/calls/data will be transmitted via the Primary SIM card.
- Secondary SIM Determines that the SMS text messages/calls/data will be transmitted via the Secondary SIM card.
- Currently in use SIM Determines that the SMS text messages/calls/data will be transmitted via the SIM card that the system is currently switched to - either Primary or the Secondary SIM card.
- Return to Primary SIM Enabled Determines that the Primary SIM card will be the main SIM card of the system. If it is set up to use
 the Secondary SIM in the communication process, the system will do so, but after completing the task via the Secondary SIM card, the
 system will always return to the Primary SIM card
- Try to find operator for a maximum of x times Determines the maximum number of attempts the system should attempt to
 re-establish a GSM connection on the current SIM card in case of unsuccessful initial attempt (by default 3 attempts).

In Manual mode the priority is to transmit data to the monitoring station, but if an event, which requires the system to send an SMS text message via one of the SIM cards, occurs, the system will switch to the requested SIM card and send the SMS text message. This can only be carried out under the following conditions:

- among the attempts to transmit data to the monitoring station (depending on communication method).
- while switching the monitoring station connections.
- while switching between the SIM cards.

Example: System settings are the following:

Dual SIM Management:

- Manual Mode selected
- · Return to Primary SIM Disabled.
- Send SMS / Call via Secondary SIM.

MS Settings - Communication:

- Primary Voice Calls via Secondary SIM.
- Backup1 CSD via Primary SIM.
- Backup2 GPRS Network via Primary SIM.

Let's say, the system is configured to send an SMS text message to user phone number in case of a Fire Zone Alarm and to transmit data to the monitoring station when the system is ARMED. The system is currently switched to the Primary SIM card. The system will follow this pattern:

- a) The user arms the system followed by system switching to the Secondary SIM and attempting to transmit data to the monitoring station via the Primary connection, which is Voice Calls communication method, but fails.
- b) The system then switches to the Primary SIM and attempts to transmit data via Backup1 connection, which is CSD communication method, but fails again.
- c) During the event described in step b), a Fire Zone Alarm occurs. The system will switch to the Secondary SIM and attempt to send the SMS text message to the user regarding this event.
- d) The system continues with the data transmission to the monitoring station by switching back to Primary SIM and attempting to transmit data via Backup2 connection, which is GPRS Network communication method, and succeeds.
- e) In case of occurrence of a new event, the alarm system will switch back to the Primary connection (Voice Calls) and to the Secondary SIM card and will attempt to transmit the data to the monitoring station.

NOTE: If the Return to Primary SIM parameter is enabled, the system would return to the Primary SIM after each data transmission.

NOTE: ELDES Cloud Services will remain operational in Manual mode, when used.

32. WIRED DEVICES

32.1. RS485 Interface

The system comes equipped with RS485 interface used for the communication with the following devices:

- EKB2 LCD keypad. Up to 4 units supported..
- EKB3 LED keypad. Up to 4 units supported..
- EPGM1 hardwired zone and PGM output expansion module. Up to 2 units.
- ELAN3-ALARM Ethernet communicator. 1 unit supported.

The terminals of RS485 interface are Y (yellow wire) and G (green wire) terminals, which are data bus. The devices, connected to RS485 interface, must be powered from the AUX+ and AUX- terminals or by an external power supply.

For more details on RS485 device wiring, please refer to 3.2.7. RS485.

For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download

32.1.1. EKB2 - LCD Keypad

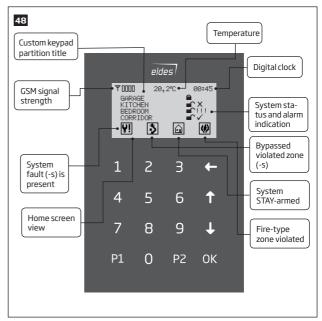
Main features:

- Alarm system arming and disarming (see 12.3. EKB2 Keypad and User/Master Code).
- Arming and disarming in Stay mode (see 15. STAY MODE).
- System parameter configuration (see 5. CONFIGURATION METHODS).
- PGM output control (see 18.4. Turning PGM Outputs ON and OFF).
- System information display (see 32.1.1.1. Icons and Messages).
- Audio indication by built-in buzzer.
- Wireless device information display (see 19.2. Wireless Device Information and Signal Status Monitoring).
- Temperature display (see 32.1.1.1. Icons and Messages).
- Time display (see 32.1.1.1. Icons and Messages).

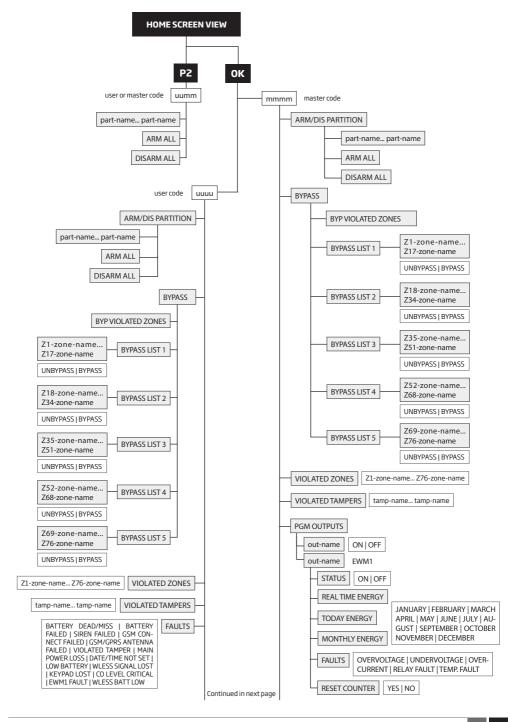
For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download

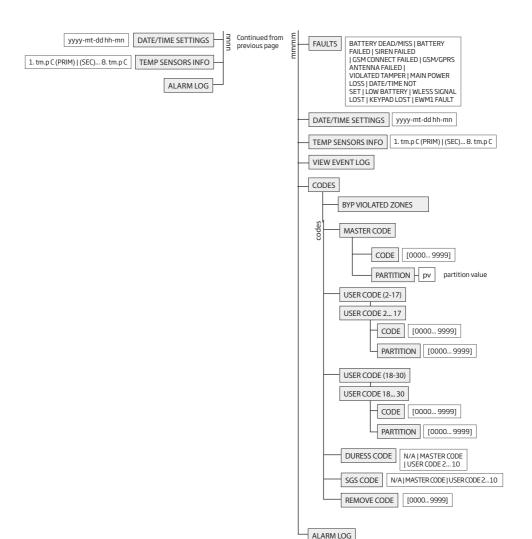
32.1.1.1. Icons and Messages

| Icon / Message | Description | | | |
|-------------------------|---|--|--|--|
| icon / riessage | Description | | | |
| | Partition is armed and | | | |
| (by default - disabled) | menu is locked | | | |
| ₽ | Partition is disarmed and menu is unlocked Configuration mode activated | | | |
| (by default - disabled) | | | | |
| * | | | | |
| !!! | Zone or tamper alarm in partition | | | |
| √ | Partition is ready to be armed. | | | |
| × | Partition is not ready to be armed - one or more zones / tampers violated. | | | |
| ٧i | One or more system faults present | | | |
| 3 | One or more violated zones bypassed | | | |
| | One or more partitions STAY-armed One or more Fire-type zones violated Alarms in alarm log present | | | |
| (| | | | |
| 44 | | | | |
| SERVICE MODE | Service mode activated | | | |

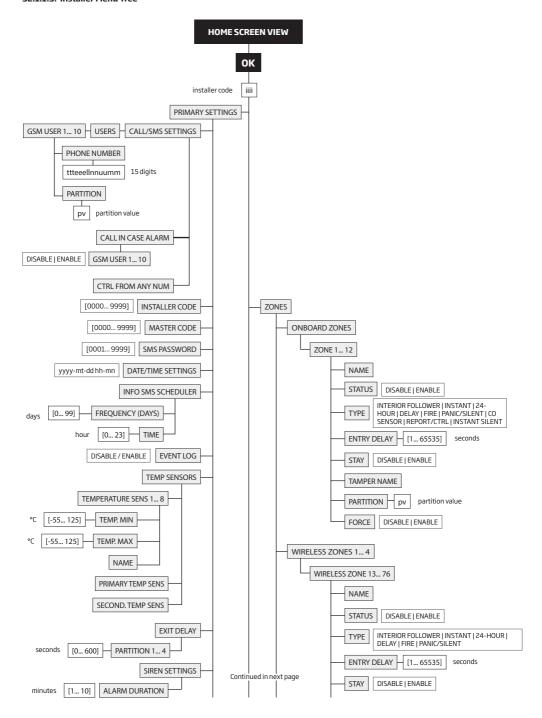


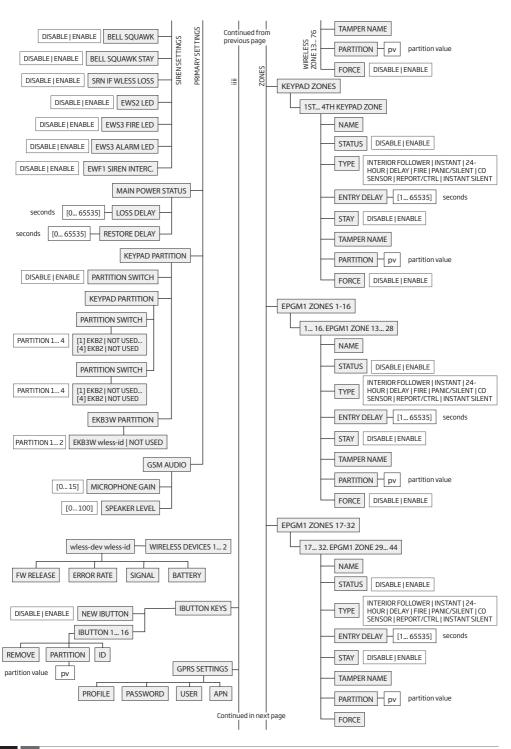
32.1.1.2. Master and User Menu Tree

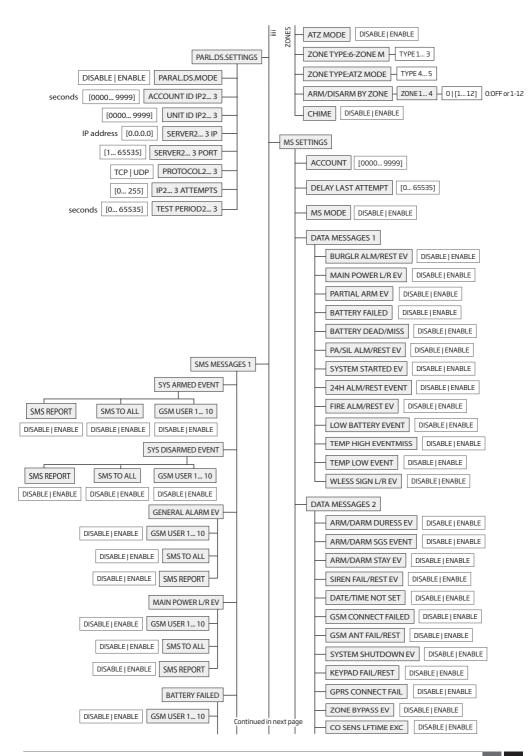


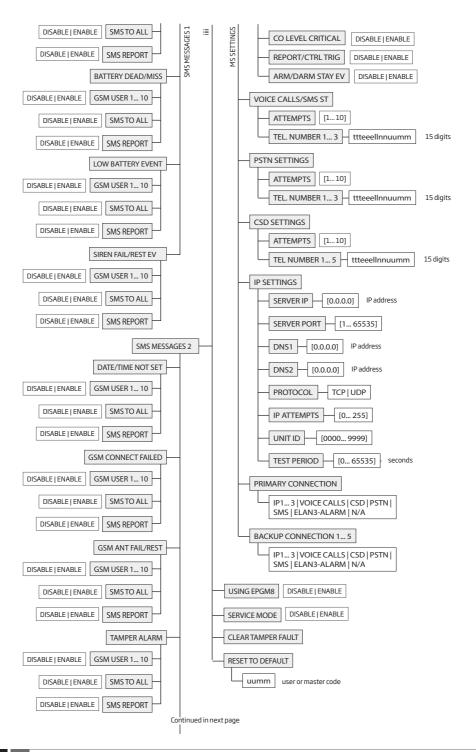


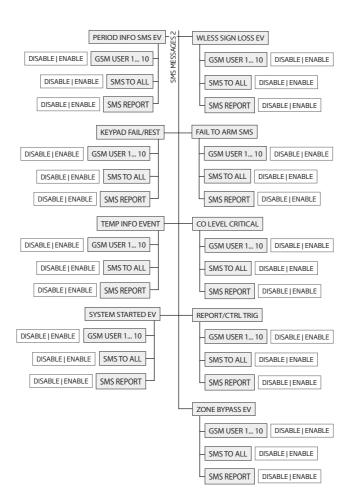
EN MANUAL ELDES ESIM364 v1.8











32.1.2. EKB3 - LED Keypad

Main features:

- Alarm system arming and disarming (see 12.4. EKB3 Keypad and User/Master Code).
- Arming and disarming in Stay mode (see 15. STAY MODE).
- System parameter configuration (see 5. CONFIGURATION METHODS).
- PGM output control (see 18.4. Turning PGM Outputs ON and OFF).
- Visual indication by LED indicators (see 32.1.2.1. LED Functionality).
- Audio indication by built-in buzzer..
- Keypad partition switch (see 23.3. Keypad Partition and Keypad Partition Switch).

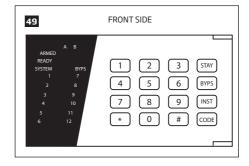
For more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download

32.1.2.1. LED Functionality

| ARMED | Steady ON - alarm system is armed / exit delay in progress; flashing - Configuration mode activated |
|--------|---|
| READY | Steady ON - system is ready - no violated zones and tampers |
| SYSTEM | Steady ON - system faults; flashing - violated high-numbered zone (-s) |
| BYPS | Steady ON - zone bypass mode |
| 1-12 | Steady ON - violated zone Z1-Z12 |

32.1.2.2. Keys Functionality

| [BYPS] | Bypass violated zone | |
|--------|---|--|
| [CODE] | System fault list / violated high-numbered zone indication / violated tamper indication | |
| [*] | Clear typed in characters | |
| [#] | Confirm (enter) command | |
| [0][9] | Command typing | |
| [1][4] | Keypad partition switch / steady ON - armed partition indication / flashing - violated partition indication | |
| [0] | Simultaneous 4-partition arming | |
| [STAY] | Manual system arming in Stay mode | |
| [INST] | 1st character for Configuration mode activation/deactivation command | |



32.2. 1-Wire Interface

1-Wire interface is used for the system to communicate with an iButton key reader and up to 8 temperature sensors. 1-Wire interface COM and DATA terminals are ground and data respectively. When connecting single or multiple temperature sensors, the +5V terminal must be used along.

For more details on 1-Wire device wiring, please refer to **2.3.4. iButton Key Reader and Buzzer** and **2.3.5. Temperature Sensor and iButton Key Reader.**

32.3. Modules Interface

The system might be equipped with modules interface slots thus enabling to use one of the following devices at a time:

- EPGM8 hardwired PGM output expansion module (for more details on technical specifications and installation, please refer to the latest user manual of the device located at www.eldes.lt/download)
- EA1 audio output module (see 32.2.1. EA1 Audio Output Module)
- EA2 audio output module with amplifier (see 32.2.2. EA2 Audio Output Module with Amplifier)

32.3.1. EA1 - Audio Output Module

EA1 audio output module enables a duplex audio connection for ESIM364 alarm system.

Main features:

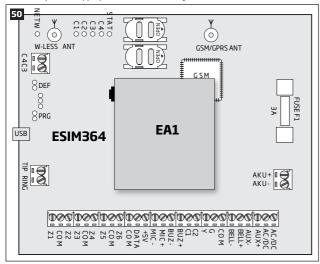
- · Two-way voice conversation during a phone call;
- Possibility to connect headphones or desktop speakers.

32.3.1.1. Technical Specifications

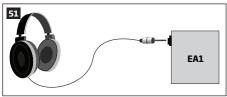
- 3,5 mm female jack
- Dimensions: 35x33x12mm (1.38x1.30x0.47in)

32.3.1.2. Installation

- 1. Disconnect ESIM364 alarm system main power supply and backup battery.
- 2. Insert EA1 pins into appropriate ESIM364 alarm system slots.



3. Connect headphones or desktop speakers to EA1 3,5 mm female jack.



- 4. Power up ESIM364 alarm system.
- 5. EA1 is ready for use with ESIM364 alarm system.

32.3.2. EA2 - Audio Output Module with Amplifier

EA2 audio output module enables a duplex audio connection for ESIM364 alarm system.

Main features:

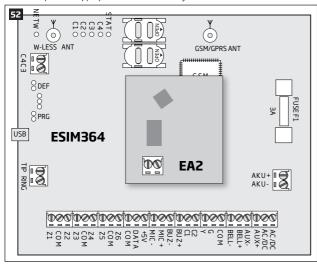
- Two-way voice conversation during a phone call;
- Possibility to connect a speaker.

32.3.2.1. Technical Specifications

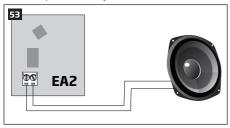
- 1W 8Ω audio amplifier
- Dimensions: 41x40x24mm (1.61x1.57x0.95in)

32.3.2.2. Installation

- 1. Disconnect ESIM364 alarm system main power supply and backup battery.
- 2. Insert EA2 pins into appropriate ESIM364 alarm system slots.



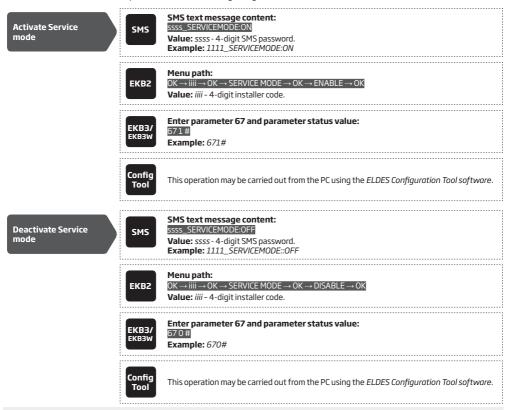
3. Connect a speaker to EA2 Speaker terminals.



- 4. Power up ESIM364 alarm system.
- 5. EA2 is ready for use with ESIM364 alarm system.

33. SERVICE MODE

The system comes equipped with Service mode allowing to carry out system maintenance tasks, such as detection device replacement, tamper switch installation, wireless device battery replacement without causing zone or tamper alarm when Service mode is activated. To activate/deactivate Service mode, please refer to the following configuration methods:



NOTE: Alternatively, the Service mode automatically deactivates when 1-hour timeout period expires or after arming the system.

34. REMOTE SYSTEM RESTART

In some critical situations, a system restart may be required. To remotely carry out system restart, please refer to the following configuration method.

Restart the system

SMS text message content: SMS SSSS_RESET

Value: ssss - 4-digit SMS password.

Example: 1111_RESET

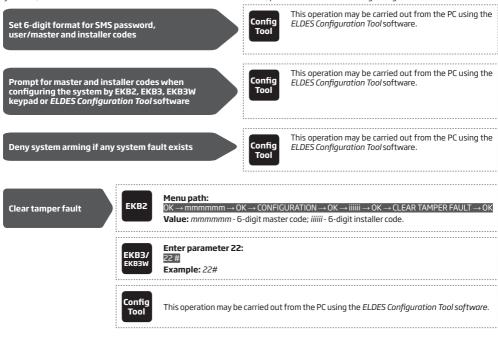
35. EN 50131-1 GRADE 3



ESIM364 system complies with EN 50131-1 Grade 3 security standard requirements and comes equipped with the following features:

- 6-digit SMS password, user/master and installer codes.
- Prompt for master and installer codes when configuring the system by EKB2, EKB3, EKB3W keypad or ELDES Configuration Tool software.
- System arming is blocked if any system fault exists. The user will not be able to arm the system until all existing system faults are solved.
- System arming is blocked until tamper fault is cleared by the installer.

By default, the EN 50131-1 Grade 3 features are disabled. To enable them, please refer to the following configuration methods:



NOTE: Before clearing a tamper fault using EKB3/EKB3W, it is necessary to activate the Configuration mode (see 5.3. EKB3/EKB3W LED Keypad).

158 EN MANUAL ELDES ESIM364 v1.8

36. ELDES CLOUD SERVICES

ELDES Cloud Services is a cloud-based platform providing a user-friendly graphical interface intended for system status monitoring and control:

- · Arm/disarm the system
- · View system faults and alerts
- Monitor GSM signal strength, backup battery level and temperature
- Control electrical appliance connected to the PGM outputs

The connection with the platform can be established either via GPRS network or Ethernet using ELAN3-ALARM device and can be accessed via web browser and smart-phone application developed for Android and iOS-based devices (iPhone, iPad).

In order to start using ELDES Cloud Services platform, please enable it using the following configuration methods.

Enable ELDES Cloud Services



SMS text message content:

ssss SMART:ON

Value: ssss - 4-digit SMS password. Example: 1111 SMART:ON



This operation may be carried out from the PC using the *ELDES Configuration Tool* software.

Once enabled, visit https://security.eldes.lt and create your personal account. Then log in to your ELDES Cloud Services account and add a device by following the step-by-step instructions provided in ELDES Cloud Services website. When adding the device to your account, you will be prompted for Cloud Services ID, which can be obtained using ELDES Configuration Tool software or by sending the following SMS text message to the system's phone number.

Request for ELDES Cloud Services ID



SMS text message content:

ssss_SMART_ID

Value: ssss - 4-digit SMS password. Example: 1111 SMART ID



This operation may be carried out from the PC using the *ELDES Configuration Tool* software

To disable ELDES Cloud Services, please refer to the following configuration methods.

Disble ELDES Cloud Services



SMS text message content:

ssss_SMART:OFF

Value: ssss - 4-digit SMS password. **Example:** 1111_SMART:OFF



This operation may be carried out from the PC using the ELDES Configuration Tool

software.

ATTENTION: In case you DO NOT wish to use ELDES Cloud Services and your device is not associated with any ELDES Cloud Services account, please DO NOT leave ELDES Cloud Services enabled. Otherwise additional charges may apply for data traffic based on your cell phone service plan.

NOTE: Additional charges may apply for data traffic based on your cell phone service plan when using ELDES Cloud Services platform.

NOTE: ELDES Cloud Services platform will remain operational even when using Automatic or Manual dual-SIM modes.

37. TECHNICAL SUPPORT

37.1. Troubleshooting

| Indication | Possible reason |
|---|---|
| Indicator STAT is off | No mains power Wiring done improperly Blown fuse |
| Indicator NETW is off or flashing | Missing SIM card PIN code is enabled SIM card is inactive Disconnected antenna GSM network signal too weak GSM network unavailable Microcontroller is not started due to electrical mains noise or static discharge |
| System does not send any SMS text messages and/or does not ring | SIM card credit balance depleted Incorrect SMS centre phone number No GSM network signal User number is not added (or control from anu phone number is disabled) SIM card changed before disconnecting main power supply or backup battery |
| Received SMS text message "Wrong syntax" | Incorrect SMS text message structure Extra space character might be typed in SMS text message |
| Missing temperature indication in Info SMS text message/EKB2 keypad | Temperature sensor not connected Temperature sensor broken Connection wires too long |
| 24H and/or Fire zones do not work | Specified zone must be enabled by SMS, ELDES Configuration Tool, EKB2, EKB3 or EKB3W |
| No sound during remote listening | Microphone not connected Improper microphone connection |

For product warranty repair service please, contact your local retail store where this product was purchased.

If your problem could not be fixed by the self-guide above, please contact your local distributor. More up to date information about your device and other products can be found at the manufacturer's website www.eldes.lt

37.2. Restoring Default Parameters

- 1. Disconnect the power supply and backup battery.
- 2. Short circuit (connect) DEF pins.
- 3. Power up the device for 7 seconds.
- 4. Power down the device.
- 5. Remove short circuit from DEF pins.
- 6. Parameters restored to default.

37.3. Updating the Firmware via USB Cable Locally

- 1. Disconnect the power supply and backup battery.
- 2. Short circuit (connect) DEF pins.
- 3. Connect the device via USB cable to the PC.
- 4. Power up the device.
- 5. The new window must pop-up where you will find the .bin file. Otherwise open My Computer and look for Boot Disk drive.
- 6. Delete the .bin file found in the drive.
- 7. Copy the new firmware .bin file to the very same window.
- 8. Power down the device.
- 9. Unplug USB cable.
- 10. Remove short circuit from DEF pins.
- 11. Power up the device.
- 12. Firmware updated.

NOTE: It is strongly recommended to restore default parameters after the firmware update.

37.4. Updating Firmware via GPRS Connection Remotely

ATTENTION: The system will NOT transmit any data to monitoring station while updating the firmware remotely via GPRS network. All data messages will be lost and will NOT be transmitted to the monitoring station after the firmware upgrade process is over.

Before updating the firmware remotely via GPRS connection, make sure that:

- SIM card is inserted into SIM CARD1 slot of ESIM364 device (see 2.2. Main Unit, LED and Connector Functionality).
- Mobile internet service (GPRS) is enabled on the SIM card.
- Power supply is connected to ESIM364.
- Default SMS password is changed to a new 4-digit password (see 6. SMS PASSWORD AND INSTALLER CODE).
- At least User 1 phone number is set up (see 8. USER PHONE NUMBERS).
- APN, user name and password are set up (see 30.2.1. GPRS Network and ELAN3-ALARM).

Initiate FOTA

ESIM364 alarm system supports FOTA (firmware-over-the-air) feature. This allows to upgrade the firmware remotely via GPRS connection. Once the upgrade process is initiated, the system connects to the specified FTP server address where the firmware file is hosted and begins downloading and re-flashing the firmware. The firmware file must be located in a folder titled **Firmware**. In order to initiate the upgrade process please, send the following SMS message.



SMS text message content:

ssss_FOTA:ftp-server-ip,port,firmware-file-name.bin,user-name,password

Value: ssss - 4-digit SMS password; ftp-server-io - public IP address of FTP server where EPIR firmware file is stored; port - port number of FTP server (usually - 21); firmware-file-name.bin - name of the firmware file, allowed max. length - up to 31 character; user-name - user name of FTP server login, allowed max. length - up to 31 character; password - password of FTP server login, allowed max. length - up to 31 character.

Example: 1111_FOTA:84.15.143.111,21,esim364fw.bin,eldesuser,eldespassword

ATTENTION: Firmware filename MUST be renamed in lowercase format before using it.

ATTENTION: Comma and underscore character is NOT allowed to use in user name, password and firmware file name.

ATTENTION: "ELDES UAB" does not run a FTP server and does not host the firmware files online. Please, contact your local distributor to request the latest firmware file.

NOTE: It is strongly recommended to restore default parameters after the firmware update.

37.5. Frequently Asked Questions

| Ou | estion | Answer |
|----|--|---|
| 1. | Can ESIM364 operate as standalone device without SIM card inserted? | Yes, ESIM364 device can fully operate without any SIM card inserted. In this case you will not be able to configure and control the device by SMS and calls nor to receive any SMS reports and calls. |
| 2. | I am unable to arm the alarm system when one of the zones (some zones) is violated. Is there a way to arm the alarm system while the zone is violated? | Due to security reasons it is recommended to restore the violated zone (-s) before arming the alarm system. However, you can enable a Force attribute or use the Bypass feature in order to arm the alarm system despite the violated zone (-s) being present. Please, refer to 14.5. Zone Type Definitions and 14.7. Bypassing and Activating Zones. |
| 3. | When ESIM364 fully powers down my configuration becomes lost and I have to re-configure the device again. What's wrong? | This might have happened due to the jumper left on DEF pins or it is a hardware failure. Please, remove the jumper if it is present on DEF pins or contact your supplier for warranty service. |
| 4. | I have a smoke detector connected to ESIM364 system. How do I reset the smoke detector when the "Fire" zone is violated? | If the smoke detector is connected to one of the ESIM364 PGM outputs you can reset it by turning the PGM output OFF and then back ON. This can be performed by SMS, EKB2 keypad, EKB3 keypad, EKB3W keypad and ELDES Configuration Tool software. Please, refer to 18.4. Turning PGM Outputs ON and OFF. |
| 5. | What happens if I switch backup battery pole terminals places? | Switching backup battery pole terminals places is forbidden. Otherwise this will lead to blown fuse and ESIM364 alarm system will have to be repaired. |
| 6. | How do I disable SMS reports and calls in case of tamper violation when alarm system is disarmed? | The SMS reports on tamper violation can be disabled by EKB2, EKB3, EKB3W keypads or <i>ELDES Configuration Tool</i> software. For mor details, please refer to 16. TAMPERS or to the software's HELP section. However, due to security reasons it is not recommended to disable this feature. |
| 7. | Is any additional configuration necessary when con- necting EPGM1 module after wiring is done accroding to EPGM1 user manual? | No additional configuration is required in order to make EPGM1 module operational. |

| Qu | estion | Answer | | |
|-----|---|---|--|--|
| 8. | Does the number of EPGM1 zones duplicate when ATZ mode is activated in the system? | No, the number of EPGM1 zones does not duplicate in ATZ mode as EPGM1 module does not support ATZ mode. Only ESIM364 zones duplicate in ATZ mode. | | |
| 9. | I connect the wired siren to ESIM364 and I hear a silent sound alarm even when the alarm system is disarmed. In case of alarm system alarm the siren provides a loud sound alarm as it should. Why? | Please, connect the resistor of 3,3 kΩ nominal to the BELL- / BELL+ contacts This should solve the problem. | | |
| 10. | I am using Windows operating system. The windows of <i>ELDES Configuration Tool</i> are not fully displayed and some parts are like cut-off. What's wrong? | Please, update <i>ELDES Configuration Tool</i> software by visiting www.eldes.lt/en/download and downloading the latest version. | | |
| 11. | The buzzer remains active when I disarm the alarm system using the keypad. Why? | The buzzer is intended for iButton indication only and it is not related to disarming process by keypad. | | |
| 12. | One of wireless devices connected to ESIM364 system sends a tamper alarm from time to time, although no tamper was violated. Why? | This happens due to wireless connection loss. There might be several reasons: 1. ELDES wireless device is installed too close or too far from ESIM364 system. 2. Interference of other electronic equipment. 3. Physical interference (building walls, floors etc.) 4. Metal material interference. | | |
| 13. | I have connected a wired magnetic door sensor, but I receive tamper alarm instead of zone alarm. What's wrong? | This happens due to incorrect resistor connection. Please, refer to corresponding connection circuit according to the selected zone connection type (Type 1 - 5). See 2.3.2 Zone Connection Types for more details. | | |
| 14. | I disconnected the backup battery, but did not receive any SMS report on this event. How do I enable SMS report on backup battery disconnection? | By default, this notification is enabled. The system checks the backup battery resistance once a day and sends an SMS report to User 1 on backup battery replacement if more than 2Ω resistance is detected. For more details, please refer to 21. BACKUP BATTERY, Mains power STATUS MONITORING AND MEMORY. | | |
| 15. | When I check system SIM card credit balance I see a lot of SMS delivery confirmation reports. How do I disable SMS delivery confirmation ESIM364 system? | Every time an SMS text message is sent to the user, the system must "know" that the message was successfully delivered. The only way to partly disable the SMS delivery report (for alarm notifications only) is to enable alarm SMS notifications to all users. This is useful when having only User1 phone number set up, as in case of alarm the system sends the alarm SMS text message to all listed users simultaneously, but does not require any SMS delivery report. | | |
| 16. | I have set zone names and/or PGM output names containing some Cyrillic and/or non-English characters. The zone names and PGM output names do not fully fit in the SMS message. What's wrong? | According to GSM standards 1 SMS text message may consist of up to 160 Latin alphabet/English characters maximum. If the message contains at least one non-latin/non-English character, the length of SMS message becomes at least half shorter, since those characters occupy more size of the SMS text message than the Latin ones. It is recommended not to use any non-Latin/non-English characters in zone names and PGM output names. | | |
| 17. | The configuration of added wireless keyfob EWK1 to ESIM364 system is not visible in <i>ELDES Configuration Tool</i> . What's wrong? | ELDES Configuration Tool version is too old. Please, update it. | | |
| 18. | l am unable to run <i>ELDES Configuration Tool</i> - I receive error messages in Windows. Why? | Microsoft .NET Framework v3.5 is not installed in Windows system. Please, download this package from official Microsoft website free of charge and install it to your Windows system. | | |
| 19. | Info SMS report comes with wrong date and time. How do I correct it? | Please, set the correct system date and time using either <i>ELDES Configuration Tool</i> , EKB2, EKB3, EKB3W or SMS text message. | | |
| 20. | I receive an error message when attempting to configure the device or update the firmware remotely. Whats wrong? | It appears that the device is unable to establish a communication with configuration / FTP server. Please, check the GPRS settings in ESIM364 configuration (APN, user name, password), the location of the firmwarebin file (must be located in the FTP server folder titled Firmware) and the mobile internet feature presence on the SIM card used with ESIM364. If this does not solve the problem, please contact your GSM operator (and ISP - for remote configuration problems) in order to request a list of blocked TCP ports. | | |
| | I waited for at least 5 minutes, but did not receive any SMS message confirming that remote configuration via GPRS connection has stopped. What's wrong? | 1. Send the ssss_endconfig SMS text message. 2. In ELDES Configuration Tool software press Disconnect button and repeat the procedure as described in 5.4.1. Remote Connection. | | |
| 22. | The SMS password is changed and I have User 1 phone number added. However, whenever I send a text message, such as ssss INFO the system always replies with "Wrong password". What's wrong? | Most likely you have wrong character encoding set up in your SMS text messaging settings on your smart-phone. Please, ensure that you have GSM Alphabet selected, NOT Unicode or any other type of character encoding. | | |

38. RELATED PRODUCTS



EKB2 - LCD keypad



EKB3 - LED keypad



ME1 - metal cabinet



EPGM1 - hardwired zone and PGM output expansion module



EPGM8 - hardwired PGM output expansion module



EA1 - audio output module



EA2 - audio output module with amplifier



DS1990A-F5 - iButton key



DS18S20 - temperature sensor



ED1T - plastic enclosure with iButton key reader and temperature sensor



EWS2 - wireless external siren



EWK1 - wireless keyfob



EWF1 - wireless smoke detector EWF1CO - wireless smoke and CO detector



EKB3W - wireless LED keypad



EWK2 - wireless keyfob



EWD2 - wireless door contact/shock sensor/flood sensor



EWS3 - wireless indoor siren



EWR2 - wireless signal repeater



EW2 - wireless zone and PGM output expansion module



EWK2A - wireless keyfob



EWP2 - wireless motion detector



Vinson DS18B20 - digital thermometer with 3m (9.84ft) wire



ESR100 - digital receiver

166 EN MANUAL ELDES ESIM364 v1.8

