

EKB3/  
EKB3W

**Enter parameter 11, time & frequency:**

11 00 00 #

**Example:** 110000#

Config  
Tool

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.

## 27. SYSTEM NOTIFICATIONS

In case of a certain event, the system attempts to send an SMS text message to the first preset user phone number only. If the user phone number is unavailable and the system fails to receive the SMS delivery report during 20 seconds, it will attempt to send the SMS text message to the next preset 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 preset 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.

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 supply 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 & 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	SMS text message sent to the user in case the wireless signal is lost. Indicated as <i>Tamper x</i> *

**ATTENTION:** The following methods provide the configuration of the master parameters, which override the notification parameters described in [12.9. Disabling and Enabling Arm/Disarm Notifications](#).

To enable/disable a certain system notification, please refer to the following configuration methods.

## Disable system notification

### EKB2

#### Menu path:

System armed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SYS ARMED EVENT → OK → DISABLE → OKK  
System disarmed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SYS DISARMED EVENT → OK → DISABLE → OK  
General alarm: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → GENERAL ALARM EV → OK → DISABLE → OK  
Mains power loss/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → MAIN POWER L/R EV → OK → DISABLE → OK  
Battery failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → BATTERY FAILED → OK → DISABLE → OK  
Battery dead or missing: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → LOW BATTERY EVENT → OK → DISABLE → OK  
Low battery: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → LOW BATTERY EVENT → OK → DISABLE → OK  
Siren fail/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SIREN FAIL/REST EV → OK → DISABLE → OK  
Date/time not set: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → DATE/TIME NOT SET → OK → DISABLE → OK  
GSM connection failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → GSM CONNECT FAILED → OK → DISABLE → OK  
GSM/GPRS antenna fail/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → GSM ANT FAIL/REST → OK → DISABLE → OK  
Tamper alarm: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → TAMPER ALARM → OK → DISABLE → OK  
Keypad failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → KEYPAD FAILED → OK → DISABLE → OK  
Temperature info: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → TEMP INFO EVENT → OK → DISABLE → OK  
System started: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → SYSTEM STARTED EV → OK → DISABLE → OK  
Periodical info: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → PERIOD INFO SMS EV → OK → DISABLE → OK  
Wireless signal loss: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → WLESS SIGN LOSS EV → OK → DISABLE → OK

**Value:** aaaa - 4-digit administrator password.

### EKB3/ EKB3W

#### Enter parameter 25, event number & parameter status value:

25 01 0 # - System armed event  
25 02 0 # - System disarmed event  
25 03 0 # - General alarm  
25 04 0 # - Main power loss/restore  
25 05 0 # - Battery failed  
25 06 0 # - Battery dead or missing  
25 07 0 # - Low battery  
25 08 0 # - Siren fail/restore  
25 10 0 # - Date/time not set  
25 11 0 # - GSM connection failed  
25 12 0 # - GSM/GPRS antenna fail/restore  
25 13 0 # - Tamper alarm  
25 14 0 # - Keypad failed  
25 15 0 # - Temperature info  
25 16 0 # - System started  
25 17 0 # - Periodical info  
25 18 0 # - Wireless signal loss

**Example:** 25040#

### Config Tool

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

**Enable system notification**

**EKB2**

**Menu path:**

System armed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SYS ARMED EVENT → OK → ENABLE → OK  
System disarmed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SYS DISARMED EVENT → OK → ENABLE → OK  
General alarm: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → GENERAL ALARM EV → OK → ENABLE → OK  
Mains power loss/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → MAIN POWER L/R EV → OK → ENABLE → OK  
Battery failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → BATTERY FAILED → OK → ENABLE → OK  
Battery dead or missing: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → BATTERY DEAD/MISS → OK → ENABLE → OK  
Low battery: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → LOW BATTERY EVENT → OK → ENABLE → OK  
Siren fail/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 1 → OK → SIREN FAIL/REST EV → OK → ENABLE → OK  
Date/time not set: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → DATE/TIME NOT SET → OK → ENABLE → OK  
GSM connection failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → GSM CONNECT FAILED → OK → ENABLE → OK  
GSM/GPRS antenna fail/restore: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → GSM ANT FAIL/REST → OK → ENABLE → OK  
Tamper alarm: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → TAMPER ALARM → OK → ENABLE → OK  
Keypad failed: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → KEYPAD FAILED → OK → ENABLE → OK  
Temperature info: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → TEMP INFO EVENT → OK → ENABLE → OK  
System started: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → SYSTEM STARTED EV → OK → ENABLE → OK  
Periodical info: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → PERIOD INFO SMS EV → OK → ENABLE → OK  
Wireless signal loss: OK → CONFIGURATION → OK → aaaa → OK → SMS MESSAGES 2 → OK → WLESS SIGN LOSS EV → OK → ENABLE → OK  
**Value:** aaaa - 4-digit administrator password.

**EKB3/  
EKB3w**

**Enter parameter 25, event number & parameter status value:**

25 011# - System armed event  
25 021# - System disarmed event  
25 031# - General alarm  
25 041# - Main power loss/restore  
25 051# - Battery failed  
25 061# - Battery dead or missing  
25 071# - Low battery  
25 081# - Siren fail/restore  
25 101# - Date/time not set  
25 111# - GSM connection failed  
25 121# - GSM/GPRS antenna fail/restore  
25 131# - Tamper alarm  
25 141# - Keypad failed  
25 151# - Temperature info  
25 161# - System started  
25 171# - Periodical info  
25 181# - Wireless signal loss  
**Example:** 25061#

**Config  
Tool**

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

## 27.1. 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

**SMS text message content:**

ssss\_SMS\_+ttteellnnuumm

**Value:** ssss - 4-digit SMS password; ttteellnnuumm - up to 15 digits SMSC phone number.

**Example:** 1111\_SMS\_+441703111111

**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 LOG

This feature 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 latest ones.

**View event log**

**EKB2**

**Menu path:**

OK → VIEW EVENT LOG → OK → uuuu → OK

**Value:** uuuu - 4-digit user password.

To export the event log to .log file or clear it, please refer to the following configuration method.

**Export/clear event log**

**Config Tool**

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**

**EKB2**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → PRIMARY SETTINGS → OK → EVENT LOG → OK  
→ DISABLE → OK

**EKB3/  
EKB3W**

**Enter parameter 36 and parameter status value:**

36 0 #

**Example:** 360#

**Config Tool**

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

**Enable event log**

**EKB2**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → PRIMARY SETTINGS → OK → EVENT LOG → OK  
→ ENABLE → OK

**EKB3/  
EKB3W**

**Enter parameter 36 and parameter status value:**

36 1 #

**Example:** 361#

**Config Tool**

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

## 29. INDICATION OF SYSTEM FAULTS

EN50131-1  
GRADE 3

- 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.

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**.

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 preset 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

Config  
Tool

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

**NOTE:** After enabling/disabling a certain system fault indication, it is necessary to restart the system by fully powering it down and powering it up again.

**EKB2** Message **FLT** displayed in the home screen view indicates presence of system faults. In order to find out more on the particular system problem, please open menu section **FAULTS**. The description on each system problem is indicated in the table below.

**Menu path:**

OK → FAULTS

Name	Description
MAIN POWER LOSS	Mains power supply 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/GPRS ANTENNA FAILED	GSM/GPRS antenna is disconnected/broken
WLESS ANTENNA FAIL	Wireless antenna is disconnected/broken

Yellow LED **SYSTEM** indicates system faults. **SYSTEM** LED indications are mentioned in the table below.

<b>SYSTEM LED</b>	<b>Description</b>
Illuminated continuously	One or more tampers are violated; other system faults (see below)
Flashing	One or more high-numbered zones 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.

<b>Zone LED</b>	<b>Description</b>
1	Mains power supply 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	GSM connection is lost
10	One or more high-numbered zones (Z13 - Z76) are violated
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 illuminated continuously. 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.

<b>Zone LED section - A (flashing)</b>	<b>Zone LED section - B (illuminated continuously)</b>
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.

**Enable MS mode**

**SMS text message content:**

**Value:** ssss\_SCNSET:ON

**Example:** 1111\_SCNSET:ON

**SMS**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → MS MODE → OK →  
ENABLE → OK

**Value:** aaaa - 4-digit administrator password

**EKB2**

**Enter parameter 23 & parameter status value:**

**231#**

**Example:** 231#

**EKB3/  
EKB3W**

**Config  
Tool**

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

**Disable MS mode**

**SMS text message content:**

**Value:** ssss\_SCNSET:OFF

**Example:** 1111\_SCNSET:OFF

**SMS**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → MS MODE → OK →  
DISABLE → OK

**Value:** aaaa - 4-digit administrator password

**EKB2**

**Enter parameter 23 & parameter status value:**

**230#**

**Example:** 230#

**EKB3/  
EKB3W**

**Config  
Tool**

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

Account is a 4-digit number (By default - 9999) required to identify the alarm system unit by the monitoring station.

**Set account**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → ACCOUNT → OK → cccc  
→ OK

**Value:** aaaa - 4-digit administrator password; cccc - 4-digit account number.

**EKB2**

**Enter parameter 27 & account number:**

**27 cccc #**

**Value:** cccc - 4-digit account number.

**Example:** 278853#

**EKB3/  
EKB3W**

**Config  
Tool**

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

**ATTENTION:** The system will NOT send any data to the monitoring station while remote configuration, remote firmware update or remote listening/2-way voice communication is in progress. However, during the remote configuration session, firmware update process or remote listening/2-way voice communication process, the data messages will be queued up and transmitted to the monitoring station after the remote configuration session, firmware update or remote listening/2-way voice communication process is over.

**ATTENTION:** Phone calls to the preset user phone number in case of alarm are disabled by force when MS mode is enabled.

### 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 preset user phone number. For more details on system notifications by SMS text message, please refer to **27. SYSTEM NOTIFICATIONS**.

<b>Seq. No.</b>	<b>Contact ID® Code</b>	<b>Event</b>	<b>Description</b>
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 password)	Transmitted in case the system is disarmed by Duress password.
4	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.
5	3130	Burglary restore	Transmitted in case a zone of Delay (if not disarmed before entry delay countdown is completed), Interior Follower or Instant type is restored.
6	1133	24-Hour zone alarm	Transmitted in case of zone of 24-Hour type is violated.
7	3133	24-Hour zone restore	Transmitted in case of zone of 24-Hour type is restored.
8	1144	Tamper alarm	Transmitted in case the tamper is violated.
9	3144	Tamper restore	Transmitted in case the tamper is restored.
10	1146	Panic/Silent zone alarm	Transmitted in case of zone of Panic/Silent type is violated.
11	3146	Panic/Silent zone restore	Transmitted in case of zone of Panic/Silent type is restored.
12	1158	Temperature risen	Transmitted in case of the temperature has increased above the MAX set value.
13	1159	Temperature fallen	Transmitted in case of temperature has decreased below the MIN set value.
14	1301	Mains power loss	Transmitted in case the main power supply is lost.
15	3301	Mains power restore	Transmitted in case the main power supply is restored.
16	1302	Low battery	Transmitted in case the backup battery voltage is 10.5V or lower / the wireless sensor battery level runs below 5%.
17	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.
18	1309	Battery failed	Transmitted in case the backup battery resistance is 2Ω or higher.
19	1311	Battery dead or missing	Transmitted in case the backup battery is not present or the battery voltage runs below 5V.
20	3311	Battery connection restore	Transmitted in case the backup battery connection is fixed.
21	1321	Siren fail	Transmitted in case the siren is disconnected/broken.
22	3321	Siren restore	Transmitted in case the siren is connected/fixed.
23	1330	Keypad fail	Transmitted in case the keypad is disconnected/broken.
24	3330	Keypad restore	Transmitted in case the keypad is connected/fixed
25	1354	GPRS connection loss	Transmitted in case the GPRS connection is lost.
26	1358	GSM connection failed	Transmitted in case the GSM connection is lost.
27	1359	GSM/GPRS antenna fail	Transmitted in case the GSM/GPRS antenna is disconnected/broken
28	3359	GSM/GPRS antenna restore	Transmitted in case the GSM/GPRS antenna is connected/fixed.
29	1381	Wireless signal loss	Transmitted in case the connection with any wireless device is lost.
30	3381	Wireless signal restore	Transmitted in case the connection with any wireless device is restored.
31	1401	Disarmed by user	Transmitted in case the system is disarmed.
32	3401	Armed by user	Transmitted in case the system is armed.
33	1456	Disarmed in Stay mode	Transmitted in case the system is disarmed in Stay mode.
34	3456	Armed in Stay mode	Transmitted in case the system is armed in Stay mode.
35	1463	Disarmed by user (SGS password)	Transmitted in case the system is disarmed by SGS password.
36	3463	Armed by user (SGS password)	Transmitted in case the system is armed by SGS password.
37	1570	Zone bypassed	Transmitted in case a violated zone is bypassed.
38	3570	Bypassed zone activated	Transmitted in case a bypassed zone is activated.
39	1602	Test event/Kronos ping	Transmitted for system online status verification purposes.
40	3626	Date/time not set	Transmitted in case system date & time is not set.
41	1900	System started	Transmitted on system startup.

The following table refers to user codes included in arm/disarm data messages.

Type	Code
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
User Password 1	26
User Password 2	27
User Password 3	28
User Password 4	29
User Password 5	30
User Password 6	31
User Password 7	32
User Password 8	33
User Password 9	34
User Password 10	35
User Password 11	36
User Password 12	37
User Password 13	38
User Password 14	39
User Password 15	40
User Password 16	41
User Password 17	42
User Password 18	43
User Password 19	44
User Password 20	45
User Password 21	46
User Password 22	47
User Password 23	48
User Password 24	49
User Password 25	50
User Password 26	51
User Password 27	52
User Password 28	53
User Password 29	54
User Password 30	55
Remote Code (EGR100)	56
KeyFob 1	133

KeyFob 2	134
KeyFob 3	135
KeyFob 4	136
KeyFob 5	137
Arm/Disarm by Zone	213

Disable data message

EKB2

**Menu path:**

Burglary alarm restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BURGLR ALM/REST EV → OK → DISABLE → OK  
 Mains power loss/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → MAIN POWER L/R EV → OK → DISABLE → OK  
 Armed/disarmed by user: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → ARM/DISARM EVENT → OK → DISABLE → OK  
 Battery failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BATTERY FAILED → OK → DISABLE → OK  
 Battery dead or missing/battery connection restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BATTERY DEAD/MISS → OK → DISABLE → OK  
 Test event: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEST EVENT → OK → DISABLE → OK  
 Tamper alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TAMPER ALM/REST EV → OK → DISABLE → OK  
 Panic/Silent zone alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → PA/SIL ALM/REST EV → OK → DISABLE → OK  
 System started: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → SYSTEM STARTED EV → OK → DISABLE → OK  
 Fire alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → FIRE ALM/REST EV → OK → DISABLE → OK  
 24-Hour zone alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → 24H ALM/REST EVENT → OK → DISABLE → OK  
 Low battery: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → LOW BATTERY EVENT → OK → DISABLE → OK  
 Temperature risen: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEMP HIGH EVENT → OK → DISABLE → OK  
 Temperature fallen: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEMP LOW EVENT → OK → DISABLE → OK  
 Wireless signal loss/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → WLESS SIGN L/R EV → OK → DISABLE → OK  
 Disarmed by user (Duress password): OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → DISARM DURESS EV → OK → DISABLE → OK  
 Armed/disarmed by user (SGS password): OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ARM/DARM SGS EVENT → OK → DISABLE → OK  
 Armed/disarmed in Stay mode: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ARM/DARM STAY EV → OK → DISABLE → OK  
 Siren fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → SIREN FAIL/REST EV → OK → DISABLE → OK  
 Date/time not set: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → DATE/TIME NOT SET → OK → DISABLE → OK  
 GSM connection failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GSM CONNECT FAILED → OK → DISABLE → OK  
 GSM/GPRS antenna fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GSM ANT FAIL/REST → OK → DISABLE → OK  
 System shutdown: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → SYSTEM SHUTDOWN EV → OK → DISABLE → OK  
 Keypad fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → KEYPAD FAIL/REST → OK → DISABLE → OK  
 GPRS connection failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GPRS CONNECT FAIL → OK → DISABLE → OK  
 Zone bypassed/activated: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ZONE BYPASS → OK → DISABLE → OK

**Value:** aaaa - 4-digit administrator password.

**EKB3/  
EKB3W**

**Enter parameter 24, event number & 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 ping
- 24 10 0 # - System started
- 24 13 0 # - 24-Hour zone alarm/restore
- 24 14 0 # - Fire zone alarm/restore
- 24 15 0 # - Low battery
- 24 16 0 # -Temperature risen
- 24 17 0 # - Temperature fallen
- 24 18 0 # - Wireless signal loss/restore
- 24 19 0 # - Disarmed by user (Duress password)
- 24 20 0 # - Armed/disarmed by user (SGS password)
- 24 21 0 # - Armed/disarmed in Stay mode
- 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 30 0 # - Zone bypassed/activated

**Example:** 24080#

**Config  
Tool**

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

**Menu path:**

Burglary alarm restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BURGLR ALM/REST EV → OK → ENABLE → OK  
 Mains power loss/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → MAIN POWER L/R EV → OK → ENABLE → OK  
 Armed/disarmed by user: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → ARM/DISARM EVENT → OK → ENABLE → OK  
 Battery failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BATTERY FAILED → OK → ENABLE → OK  
 Battery dead or missing/battery connection restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → BATTERY DEAD/MISS → OK → ENABLE → OK  
 Test event: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEST EVENT → OK → ENABLE → OK  
 Tamper alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TAMPER ALM/REST EV → OK → ENABLE → OK  
 Panic/Silent zone alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → PA/SIL ALM/REST EV → OK → ENABLE → OK  
 System started: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → SYSTEM STARTED EV → OK → ENABLE → OK  
 Fire alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → FIRE ALM/REST EV → OK → ENABLE → OK  
 24-Hour zone alarm/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → 24H ALM/REST EVENT → OK → ENABLE → OK  
 Low battery: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → LOW BATTERY EVENT → OK → ENABLE → OK  
 Temperature risen: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEMP HIGH EVENT → OK → ENABLE → OK  
 Temperature fallen: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → TEMP LOW EVENT → OK → ENABLE → OK  
 Wireless signal loss/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 1 → OK → WLESS SIGN L/R EV → OK → ENABLE → OK  
 Disarmed by user (Duress password): OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → DISARM DURESS EV → OK → ENABLE → OK  
 Armed/disarmed by user (SGS password): OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ARM/DARM SGS EVENT → OK → ENABLE → OK  
 Armed/disarmed in Stay mode: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ARM/DARM STAY EV → OK → ENABLE → OK  
 Siren fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → SIREN FAIL/REST EV → OK → ENABLE → OK  
 Date/time not set: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → DATE/TIME NOT SET → OK → ENABLE → OK  
 GSM connection failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GSM CONNECT FAILED → OK → ENABLE → OK  
 GSM/GPRS antenna fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GSM ANT FAIL/REST → OK → ENABLE → OK  
 System shutdown: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → SYSTEM SHUTDOWN EV → OK → ENABLE → OK  
 Keypad fail/restore: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → KEYPAD FAIL/REST → OK → ENABLE → OK  
 GPRS connection failed: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → GPRS CONNECT FAIL → OK → ENABLE → OK  
 Zone bypassed/activated: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DATA MESSAGES 2 → OK → ZONE BYPASS → OK → ENABLE → OK

**Value:** aaaa - 4-digit administrator password.

**EKB3/  
EKB3W**

**Enter parameter 24, event number & parameter status value:**

- 24 011# - Burglary alarm/restore
- 24 021# - Mains power loss/restore
- 24 031# - Armed/disarmed by user
- 24 041# - Test event
- 24 051# - Battery failed
- 24 061# - Battery dead or missing/battery connection restore
- 24 071# - Tamper alarm/restore
- 24 081# - Panic/Silent zone alarm/restore
- 24 091# - Kronos ping
- 24 101# - System started
- 24 131# - 24-Hour zone alarm/restore
- 24 141# - Fire zone alarm/restore
- 24 151# - Low battery
- 24 161# - Temperature risen
- 24 171# - Temperature fallen
- 24 181# - Wireless signal loss/restore
- 24 191# - Disarmed by user (Duress password)
- 24 201# - Armed/disarmed by user (SGS password)
- 24 211# - Armed/disarmed in Stay mode
- 24 221# - Siren fail/restore
- 24 241# - Date/time not set
- 24 251# - GSM connection failed
- 24 261# - GSM/GPRS antenna fail/restore
- 24 271# - System shutdown
- 24 281# - Keypad fail/restore
- 24 291# - GPRS connection failed
- 24 301# - Zone bypassed/activated

**Example:** 24031#

**Config  
Tool**

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

## 30.2. Communication

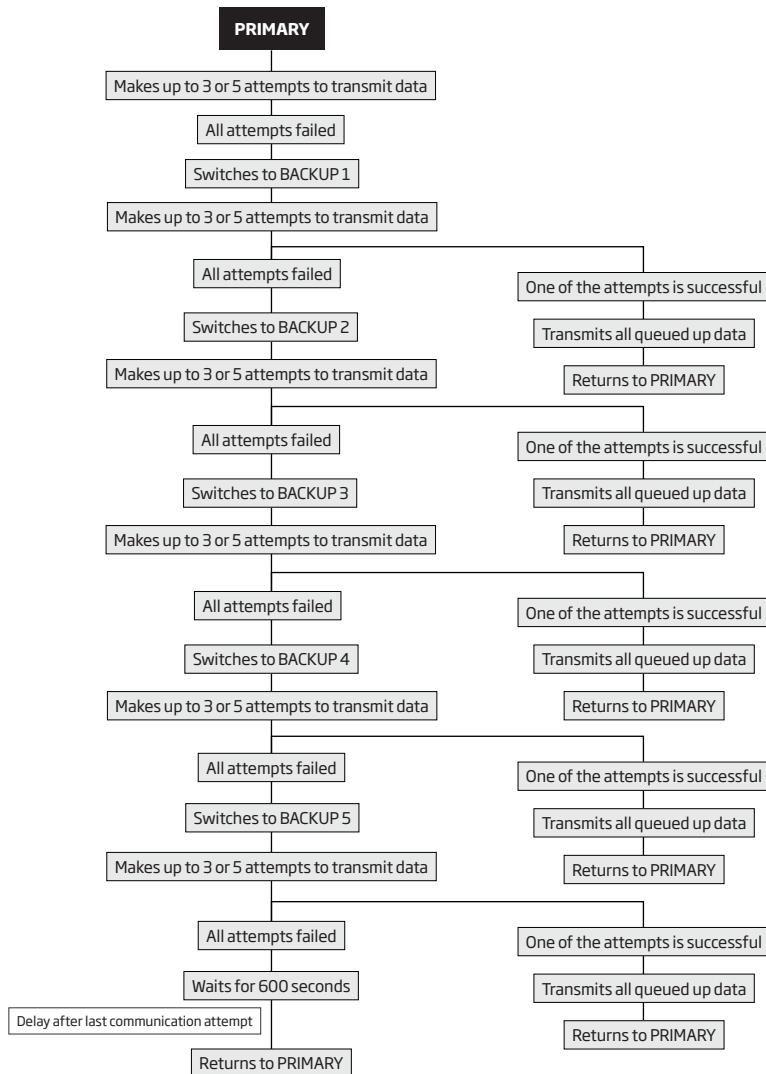
The system supports the following communication methods and protocols:

- GPRS network - EGR100, Kronos protocol.
- Voice calls (GSM audio channel) - Ademco Contact ID protocol.
- RS485 data channel.
- CSD (Circuit Switched Data).
- PSTN (landline) - Ademco Contact ID protocol.
- SMS - Cortex SMS format.

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 - Backup 2) and will continue to operate as described in the previous steps. The connection is considered unsuccessful under the following conditions:
  - GPRS network - 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](#).

## Set primary connection

EKB2

### Menu path:

GPRS network: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → GPRS → OK

Voice calls: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → VOICE CALLS → OK

RS485: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → RS485 → OK

CSD: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → CSD → OK

PSTN: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → PSTN → OK

SMS: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → SMS → OK

connection not in use: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PRIMARY CONNECTION → OK → N/A → OK

**Value:** aaaa - 4-digit administrator password.

EKB3/  
EKB3W

### Enter parameter 48 & communication method number:

48 0 # - GPRS network

48 1 # - Voice calls

48 2 # - RS485

48 3 # - CSD

48 4 # - PSTN

48 5 # - SMS

48 6 # - connection not in use

**Example:** 484#

Config  
Tool

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

## Set backup connection 1... 5

EKB2

### Menu path:

GPRS network: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → GPRS → OK

Voice calls: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → VOICE CALLS → OK

RS485: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → RS485 → OK

CSD: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → CSD → OK

PSTN: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → PSTN → OK

SMS: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → SMS → OK

connection not in use: OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → BACKUP CONNECTION1... 5 → OK → N/A → OK

**Value:** aaaa - 4-digit administrator password.

EKB3/  
EKB3W

### Enter parameter 83, backup connection slot number & communication method number:

83 bb 0 # - GPRS network

83 bb 1 # - Voice calls

83 bb 2 # - RS485

83 bb 3 # - CSD

83 bb 4 # - PSTN

83 bb 5 # - SMS

83 bb 6 # - connection not in use

**Value:** bb - backup connection slot number, range - [01... 05].

**Example:** 83021#

Config  
Tool

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

**EKB2**

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → DELAY LAST ATTEMPT  
→ OK → aaapp → OK

**Value:** aaaa - 4-digit administrator password; aaapp - duration of delay after last attempt, range - [0... 65535] seconds.

**EKB3/  
EKB3W**

#### Enter parameter 69 & 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 *ELDES Configuration Tool* 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/](http://www.eldes.lt/) en/download

### 30.2.1. GPRS Network

### Set server IP address

**SMS**

#### SMS text message content:

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

**EKB2**

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → GPRS SETTINGS → OK → SERVER IP → OK → add.add.add.add → OK

**Value:** aaaa - 4-digit administrator password; add.add.add.add - server IP address.

**EKB3/  
EKB3W**

#### Enter parameter 40 & server IP address:

40 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:

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:

OK → CONFIGURATION → OK → aaaa → OK → GPRS SETTINGS → OK → SERVER PORT → OK → pprrt → OK

**Value:** aaaa - 4-digit administrator password; pprrt - server port number, range - [1... 65535].

**EKB3/  
EKB3W**

#### Enter parameter 44 & server port number:

44 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

EKB2

### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → GPRS SETTINGS → OK → DNS1 → OK → add.  
add.add.add → OK

**Value:** aaaa - 4-digit administrator password; add.add.add.add - DNS1 server IP address.

EKB3/  
EKB3W

### Enter parameter 41 & DNS1 server IP address:

41 add add add add #

**Value:** add.add.add.add - DNS1 server IP address.

**Example:** 41065082119001#

Config  
Tool

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

## Set DNS2 server IP address

EKB2

### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → GPRS SETTINGS → OK → DNS2 → OK → add.  
add.add.add → OK

**Value:** aaaa - 4-digit administrator password; add.add.add.add - DNS2 server IP address.

EKB3/  
EKB3W

### Enter parameter 42 & DNS2 server IP address:

42 add add add add #

**Value:** add.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:

ssss\_SETGPRS:PROTOCOL:ptc

**Value:** ssss - 4-digit SMS password; ptc - protocol, range - [TCP... UDP].

**Example:** 1111\_SETGPRS:PROTOCOL:UDP

EKB2

### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → GPRS SETTINGS → OK → PROTOCOL → OK →  
TCP | UDP → OK

**Value:** aaaa - 4-digit administrator password

EKB3/  
EKB3W

### Enter parameter 43 & protocol number:

430# - TCP

431# - 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 or EGR100

Config  
Tool

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

**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 recommended to use with EGR100.

## 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

## Set user name

### Config Tool

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

### SMS

#### SMS text message content:

**Value:** 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:

**Value:** 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

### 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 via GPRS network 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

### EKB2

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → GPRS SETTINGS → OK  
→ GPRS ATTEMPTS → OK → att → OK

**Value:** *aaaa* - 4-digit administrator password; *att* - number of attempts, range - [1... 255].

### EKB3/ EKB3W

#### Enter parameter 68 & number of attempts:

**Value:** 68 att #

**Value:** *att* - number of attempts, range - [01... 255].

**Example:** 6809#

### Config Tool

This operation may be carried out from the PC using the *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.

## Set test period

### EKB2

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → GPRS SETTINGS → OK  
→ TEST PERIOD → OK → tteessttpp → OK

**Value:** *aaaa* - 4-digit administrator password; *tteessttpp* - test period, range - [0... 65535] seconds.

### EKB3/ EKB3W

#### Enter parameter 46 & number of attempts:

**Value:** 46 tteessttpp #

**Value:** *tteessttpp* - test period, range - [0... 65535] seconds.

**Example:** 46120#

### Config Tool

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

**NOTE:** 0 value disables test period.

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

EKB2

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → GPRS SETTINGS → OK  
→ UNIT ID → OK → unid → OK

**Value:** aaaa - 4-digit administrator password; unid - 4-digit unit ID number.

EKB3/  
EKB3W

#### Enter parameter 47 & unit ID number:

47 unid #

**Value:** unid - 4-digit unit ID number.

**Example:** 472245#

Config  
Tool

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

### View GPRS network settings

SMS

#### SMS text message content:

ssss\_SETGPRS?

**Example:** 1111\_SETGPRS?

Config  
Tool

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. 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: +441709111111. 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: 00441709111111. 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: 01709111111. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad and *ELDES Configuration Tool* software.

### Set monitoring station phone number

EKB2

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → VOICE CALLS/SMS ST →  
OK → TEL. NUMBER 1..3 → OK → ttteeeellnnuumm → OK

**Value:** aaaa - 4-digit administrator password; ttteeeellnnuumm - up to 15 digits monitoring station phone number.

EKB3/  
EKB3W

#### Enter parameter 26, phone number slot & phone number:

26 ps ttteeeellnnuumm #

**Value:** ps - phone number slot, range - [01... 03]; ttteeeellnnuumm - up to 15 digits monitoring station phone number.

**Example:** 260100441709111111#

Config  
Tool

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

### Delete monitoring station phone number

EKB2

#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → VOICE CALLS/SMS ST →  
OK → TEL. NUMBER 1..3 → OK → OK

**Value:** aaaa - 4-digit administrator password.



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.

### Set attempts



#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → VOICE CALLS/SMS ST → OK → ATTEMPTS → OK → at → OK

**Value:** aaaa - 4-digit administrator password; at - number of attempts, range - [1... 10].



#### Enter parameter 37 & number of attempts:

37 at #

**Value:** at - number of attempts, range - [01... 10].

**Example:** 3706#



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

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



#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → PRIMARY SETTINGS → OK → GSM AUDIO → OK → MICROPHONE GAIN → OK → mg → OK

**Value:** aaaa - 4-digit administrator password; mg - microphone gain, range - [0... 15].



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. 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: 00441709111111. 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: 01709111111. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad and *ELDES Configuration Tool* software.

### Set monitoring station phone number



#### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PSTN SETTINGS → OK → TEL NUMBER 1... 3 → OK → ttteeellnnuumm → OK

**Value:** aaaa - 4-digit administrator password; ttteeellnnuumm - up to 15 digits monitoring station phone number.



#### Enter parameter 58, phone number slot & phone number:

58 ps ttteeellnnuumm #

**Value:** ps - phone number slot, range - [01... 03]; ttteeellnnuumm - up to 15 digits monitoring station phone number.

**Example:** 580200441709111111#

## Delete monitoring station phone number



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



### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PSTN SETTINGS → OK  
→ TEL. NUMBER 1... 3 → OK → OK

**Value:** aaaa - 4-digit administrator password



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 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.

## Set attempts



### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → PSTN SETTINGS → OK  
→ ATTEMPTS → OK → at → OK

**Value:** aaaa - 4-digit administrator password; at - number of attempts, range - [1... 10].



### Enter parameter 91 & number of attempts:

91 at #

**Value:** at - number of attempts, range - [01... 10].

**Example:** 9108#



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][area code][local number], example for UK: +441709111111. This format can be used when setting up the 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 format: 00[international code][area code][local number], example for UK: 00441709111111. This format can be used when setting up the phone number by EKB2/EKB3/EKB3W keypad.

## Set monitoring station phone number



### Menu path:

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → CSD SETTINGS → OK →  
TEL. NUMBER 1... 5 → OK → ttteeellnnuumm → OK

**Value:** aaaa - 4-digit administrator password; ttteeellnnuumm - up to 15 digits monitoring station phone number.



### Enter parameter 85, number of entry & phone number:

85 ps ttteeellnnuumm #

**Value:** ps - phone number slot, range - [01... 05]; ttteeellnnuumm - up to 15 digits monitoring station phone number.

**Example:** 850100441709111111#



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

**Delete monitoring station phone number**

**EKB2**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → CSD SETTINGS → OK → TEL. NUMBER 1...5 → OK → OK

**Value:** *aaaa* - 4-digit administrator password.

**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**

**EKB2**

**Menu path:**

OK → CONFIGURATION → OK → aaaa → OK → MS SETTINGS → OK → CSD SETTINGS → OK → ATTEMPTS → OK → at → OK

**Value:** *aaaa* - 4-digit administrator password; *at* - number of attempts, range - [1... 10].

**EKB3/  
EKB3W**

**Enter parameter 84 & number of attempts:**

84 at #

**Value:** *at* - number of attempts, range - [01... 10].

**Example:** 8403#

**Config 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 preset 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

Config Tool

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** 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.

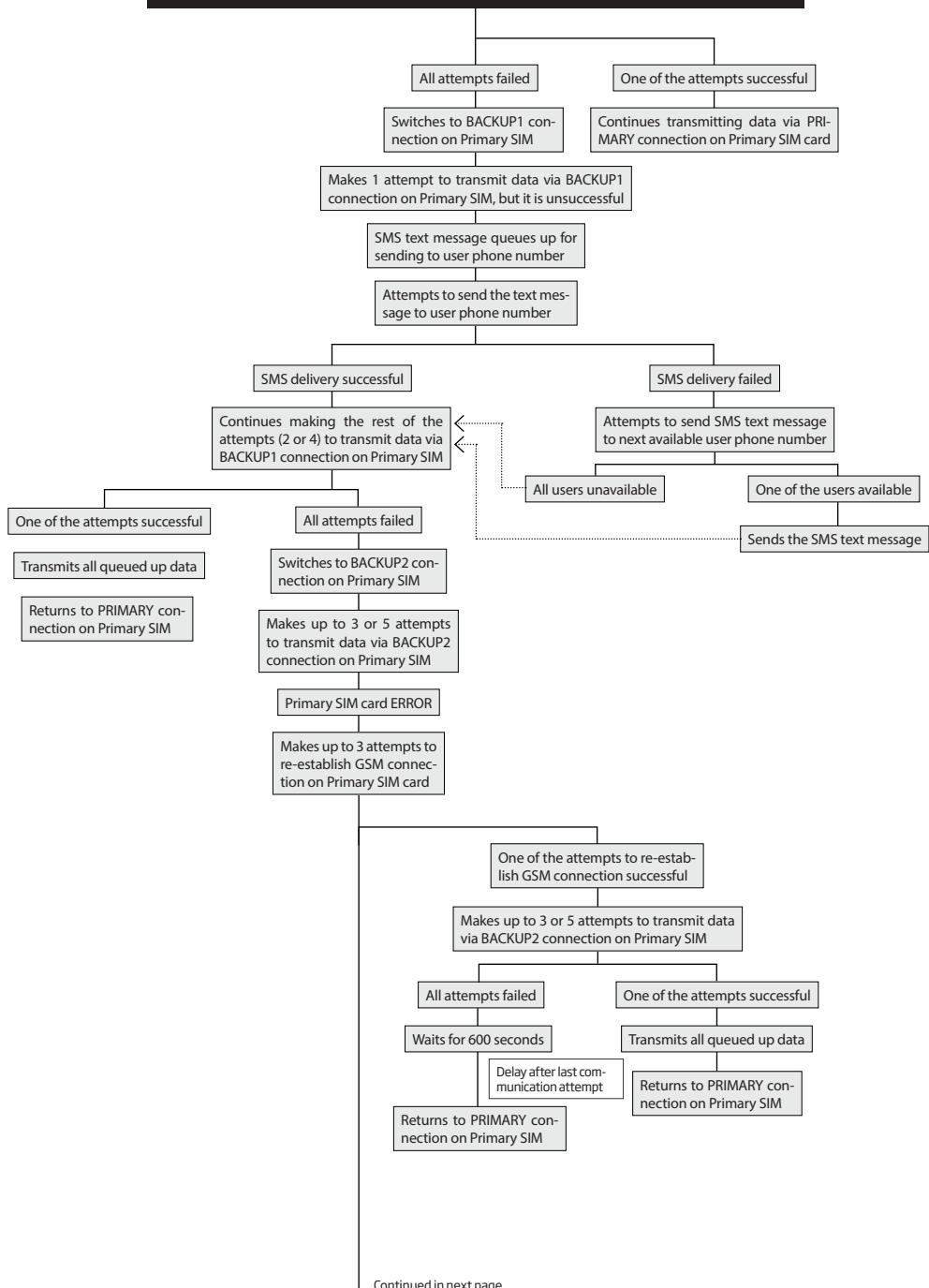
When one of the SIM card fails, the system attempts to re-establish a connection with it by starting an initial reconnection for a set number of attempts (by default - 3 attempts). If all attempts fail, the system will switch to the other SIM card. If the other SIM card is responsive and a GSM connection 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:

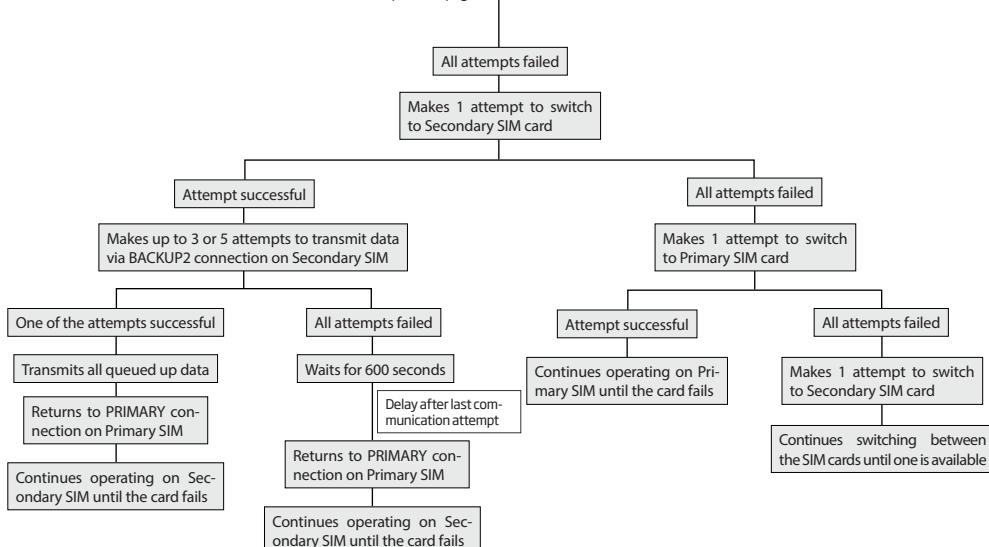
- among the attempts to transmit data to the monitoring station (depending on communication method).
- while switching the monitoring station connections.
- while switching between the SIM cards.

The following example indicates the situation described above.

**Makes up to 3 or 5 attempt to transmit data via PRIMARY connection on Primary SIM**



Continued in next page



**NOTE:** The number of attempts, indicated in the diagram, are default and depends on the determined communication method

### 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 preset 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.

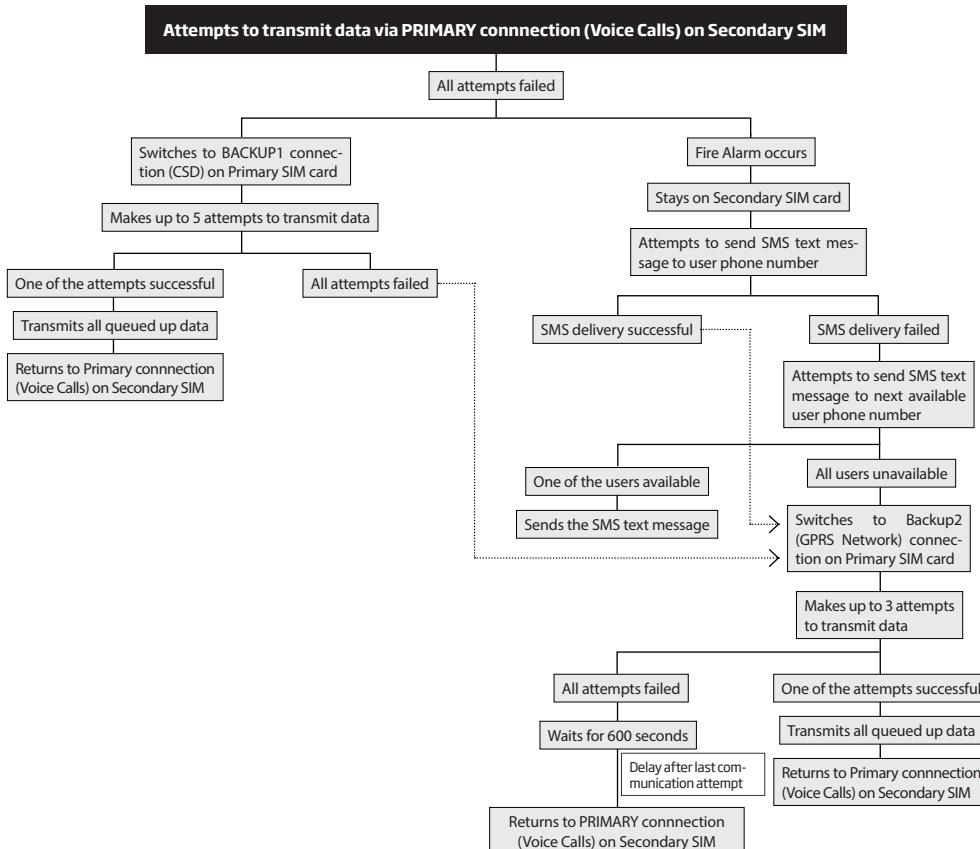
MS Settings - Communication:

- **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:

- 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.
- The system then switches to the Primary SIM and attempts to transmit data via Backup1 connection, which is CSD communication method, but fails again.
- 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.
- 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.
- The alarm system switches back to the Primary connection (Voice Calls) and to the Secondary SIM card and waits until the occurrence of further events.



**NOTE:** The number of attempts, indicated in the diagram, are default and depends on the determined communication method

**NOTE:** If the Return to Primary SIM parameter is enabled, the system would return to the Primary SIM after each data transmission.

## 32. ELDES WIRED DEVICES

### 32.1. RS485 Interface

RS485 interface is used for the system to communicate with the following devices:

- EKB2 keypads (up to 4 units).
- EKB3 keypads (up to 4 units).
- EPGM1 modules (up to 2 units).

The terminals of RS485 interface are Y (yellow wire) and G (green wire), which are clock and data respectively. The devices, connected to RS485 interface, must be powered from the AUX+ and AUX- terminals.

For more details on RS485 device wiring, please refer to **3.2.7. RS485**.

#### 32.1.1. EKB2 - LCD Keypad

EKB2 is an LCD keypad intended for using with ESIM364 alarm system.

##### Main EKB2 features:

- Alarm system arming and disarming (see **12.3. EKB2 Keypad and User Password**).
- 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 **32.1.1.4. Visual and Audio Indications**).
- Audio indication by built-in buzzer (see **32.1.1.4. Visual and Audio Indications**).
- Wireless device information display (see **19.2. Wireless Device Information and Signal Status Monitoring**).
- Keypad partition switch (see **23.3. Keypad Partition and Keypad Partition Switch**).
- Temperature display (see **32.1.1.1.2 Keys Functionality**).
- Time display (see **32.1.1.1.2 Keys Functionality**).

The system configuration is performed by accessing EKB2 menu and entering the required values. ESIM364 system allows to connect up to 4 EKB2 keypads.

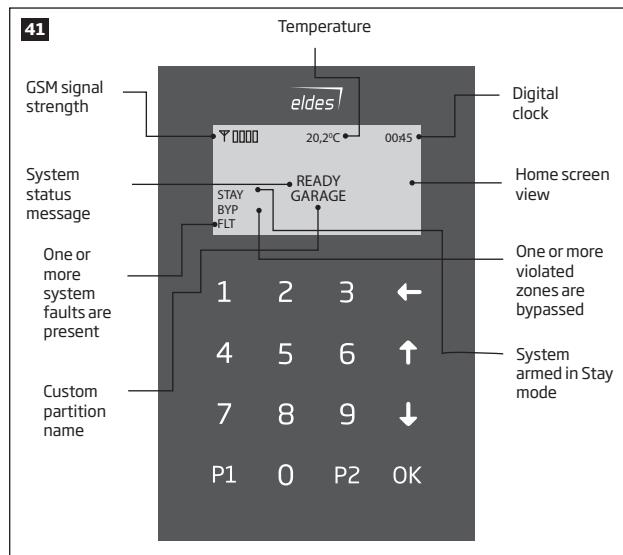
##### 32.1.1.1. Technical Specifications

###### 32.1.1.1.1 Electrical & Mechanical Characteristics

Power Supply	12-14V ___ 150mA max.
Maximum Keypad Connection Cable Length	100 m.
Dimensions	133 x 89 x 19 mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Range of Operating Temperatures	0...+55°C

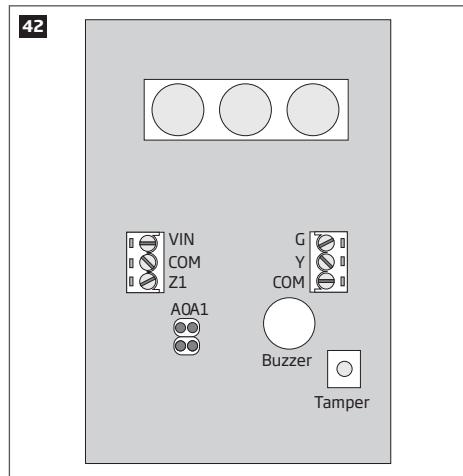
### 32.1.1.2 Keys Functionality

	One menu level back / cancel
	Menu navigation - up
	Menu navigation - down
<b>OK</b>	Confirm (enter) value
<b>0 ... 9</b>	Value typing
<b>P1</b>	Keypad partition switch / minus symbol for entering negative temp. value
<b>P2</b>	Additional menu / minus symbol for entering negative temp. value



### 32.1.1.3 Connector and Main Unit Functionality

Vin	Positive power supply terminal
COM	Negative power supply terminal
G	RS485 interface for communication (green wire)
Y	RS485 interface for communication (yellow wire)
COM	Common terminal for Z1
Z1	Security zone terminal
A0	Keypad address pin
A1	Keypad address pin
Buzzer	Buzzer for audio indications
Tamper	Tamper-button for EKB2 enclosure status monitoring



### 32.1.1.4 Keypad Address

**A0** and **A1** pins located on the back side of the keypad are intended to set keypad address. The keypad address is set by putting the jumper (-s) on the pins. ESIM364 system allows to connect up to 4 EKB2 keypads - each set under different address. Jumper combinations for different keypad address configuration are indicated in the table below.

Jumper position	Address
A0 A1 	Keypad 1
A0 A1 	Keypad 2
A0 A1 	Keypad 3
A0 A1 	Keypad 4

The address of each connected keypad is also indicated in *ELDES Configuration Tool* software.

### 32.1.1.2. Installation

1. Remove the screw located on the bottom side of the enclosure (see Fig. No. 43).
2. Detach keypad holder from EKB2 keypad by gently pulling the holder towards yourself (see Fig. No. 44).
3. Fix the keypad holder on the wall using the screws. (see Fig. No. 45).
4. Disconnect ESIM364 main power supply and backup battery.
5. Wire up keypad terminals to ESIM364 alarm system respectively - **Vin** to **AUX+**, **C0M** to **AUX-**, **Y** to **Y**, **G** to **G**.
6. Connect a sensor and the resistor across **Z1** and **C0M** terminals in accordance with zone connection Type 1 or Type 2 (see **2.3.2. Zone Connection Types**). As keypad zone **Z1** is disabled by default, it can be enabled by SMS, ELDES Configuration Tool, EKB2, EKB3 and EKB3W keypad. Keypad zone **Z1** must be enabled and resistor connected even if the tamper button alone is required (see Fig. No. 42).

**NOTE:** Keypad zone connection type can differ from selected on-board zone connection type.

**NOTE:** ATZ mode is NOT supported by keypad zones. ATZ mode is ineffective for keypad zones when enabled.

7. Set the keypad address by putting the jumper on A0 and A1 pins (see **32.1.1.4 Keypad Address**).
8. Fix the keypad into the holder.

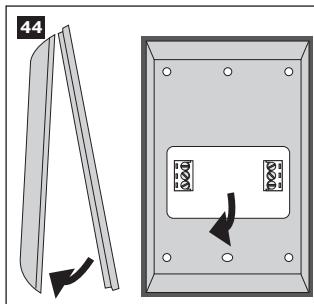
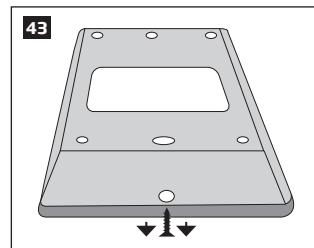
**ATTENTION:** Before fixing the keypad into the holder please , make sure that the tamper button is properly pressed (see Fig. No. 42).

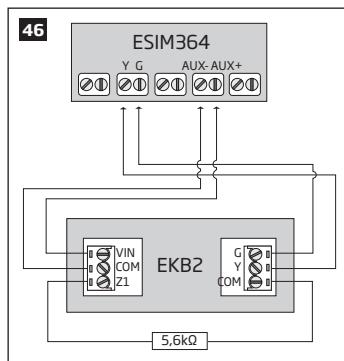
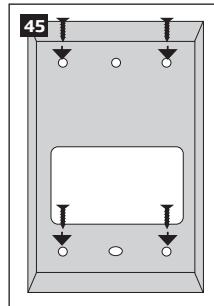
9. Screw in the bottom side of the enclosure. (see Fig. No. 43).

10. Power up ESIM364 alarm system.

11. EKB2 keypad is ready.

For more details on multiple keypad wiring, please refer to **3.2.7. RS485**





### 32.1.1.3. Visual and Audio Indications

EKB2 can be used even in dark premises as the LCD screen and keys are illuminated continuously. The illumination level lowers down if 3 minutes after the last key-touch expires while the system is disarmed. In case of alarm, the keypad illumination level is boosted and stays in this state until the system is disarmed.

The built-in buzzer uses two types of sound signals - three short beeps and one long beep. Three short beeps stand for successfully carried out configuration, one long beep - for invalid configuration. In addition, the buzzer emits short beeps in case of alarm and exit/entry delay countdown.

### 32.1.1.4. EKB2 Zone and Tamper

Keypad EKB2 has one wired zone Z1 and one tamper button. By default, the keypad zone Z1 is disabled. The keypad zone can be enabled by SMS, EKB2 keypad, EKB3 keypad, EKB3W keypad and *ELDES Configuration Tool* software (see [14.9. Disabling and Enabling Zones](#)). When Z1 is enabled, it operates like any other system zone, therefore a sensor can be connected to it. In addition, Z1 and COM terminals must be connected with resistor of 5,6kΩ nominal.

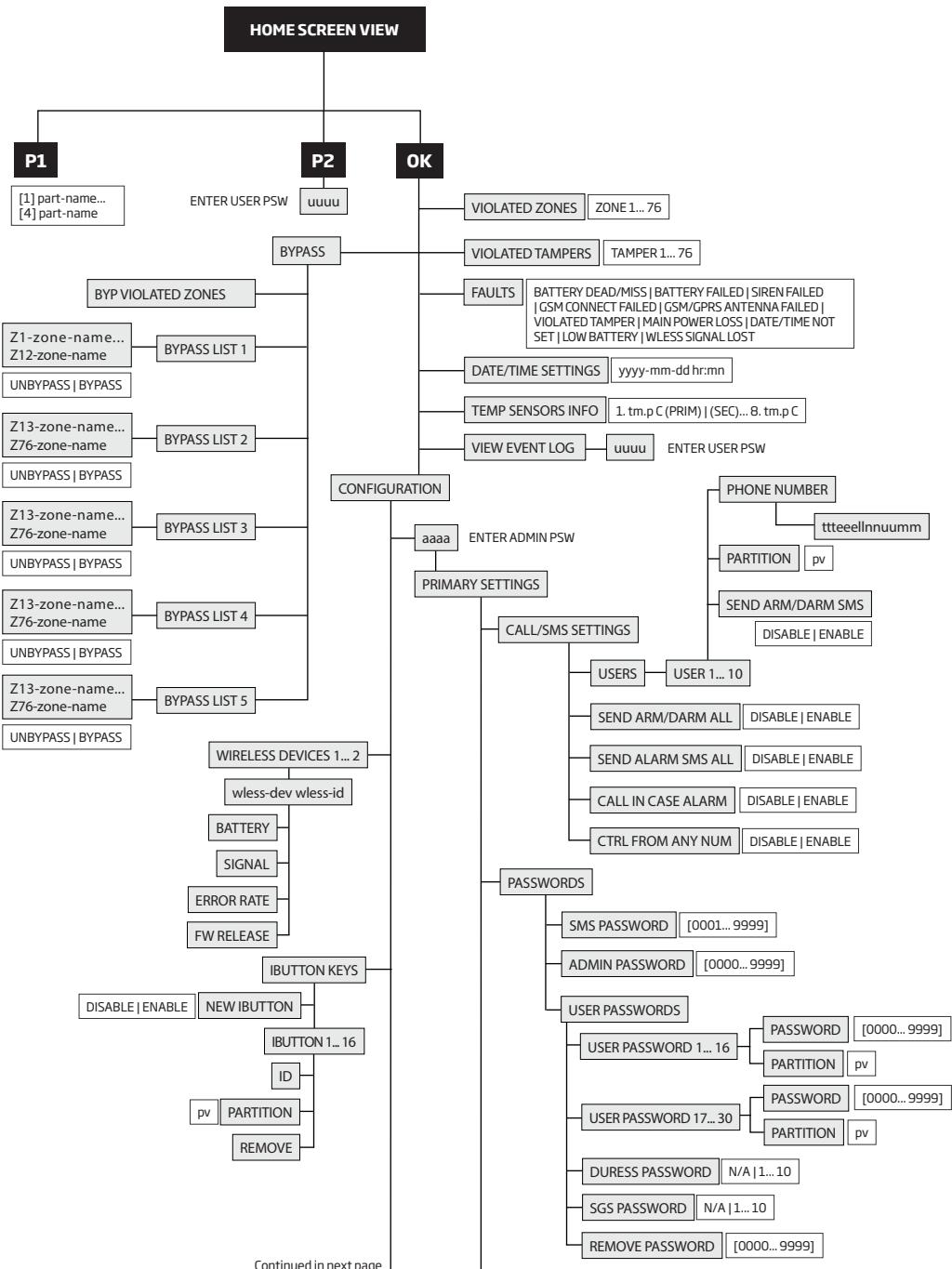
The tamper button is intended for monitoring the enclosure status of EKB2, therefore the system causes alarm if the enclosure is illegally opened. Keypad zone Z1 must be enabled and resistor connected even if the tamper button alone is required.

### 32.1.1.5. Icons and Messages

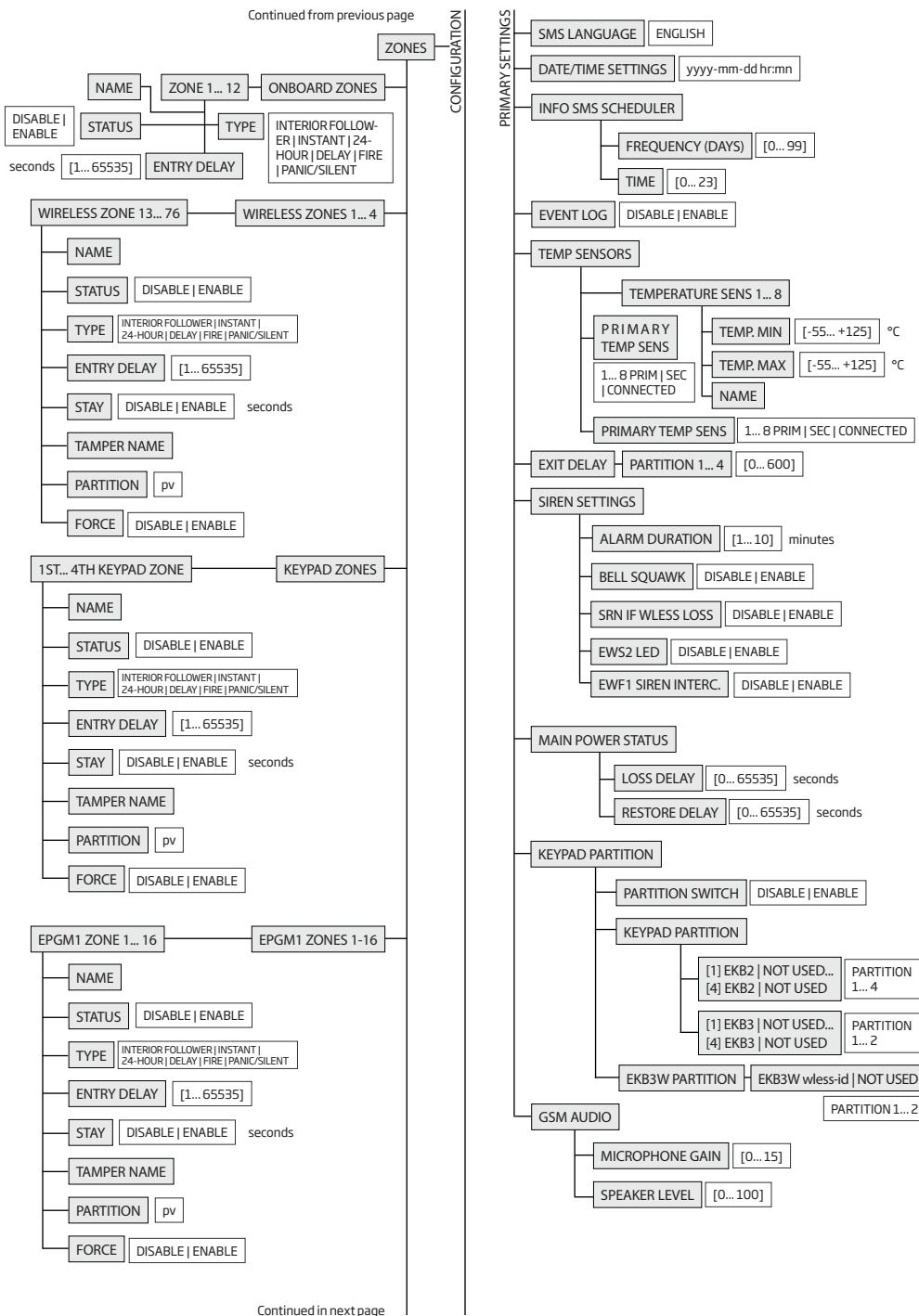
Icon / Message	Description
	Chime - Delay zone violated when system is disarmed.
	Exit delay countdown initiated.
	System is armed and menu is locked.
	System is disarmed and menu is unlocked
+ CONFIGURATION MODE	Configuration mode activated.
<b>BURGLARY ALARM</b>	Delay, Instant or Follow zone violated when system is armed.

Icon / Message	Description
<b>24 ALARM</b>	24H zone violated.
<b>FIRE ALARM</b>	Fire zone violated.
<b>TAMPER ALARM</b>	Tamper violated
<b>READY</b>	System is ready to be armed.
<b>NOT READY</b>	System is not ready to be armed - one or more zones / tampers violated.
<b>ARMED</b>	System is armed (optional feature).
<b>STAY</b>	Stay mode activated
<b>BYP</b>	System armed in Stay mode
<b>FLT</b>	One or more system faults are present

### 32.1.1.6. Menu Tree

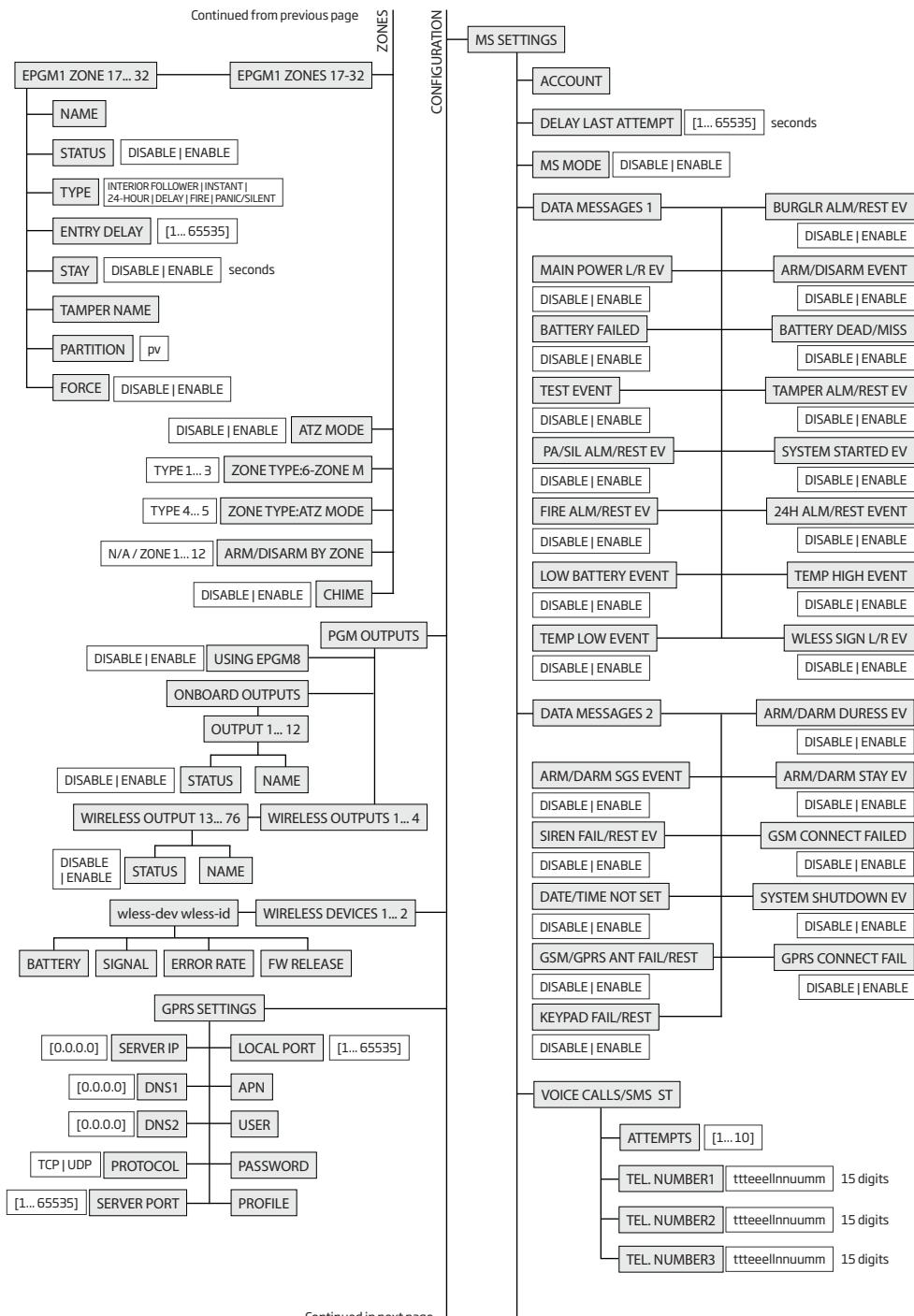


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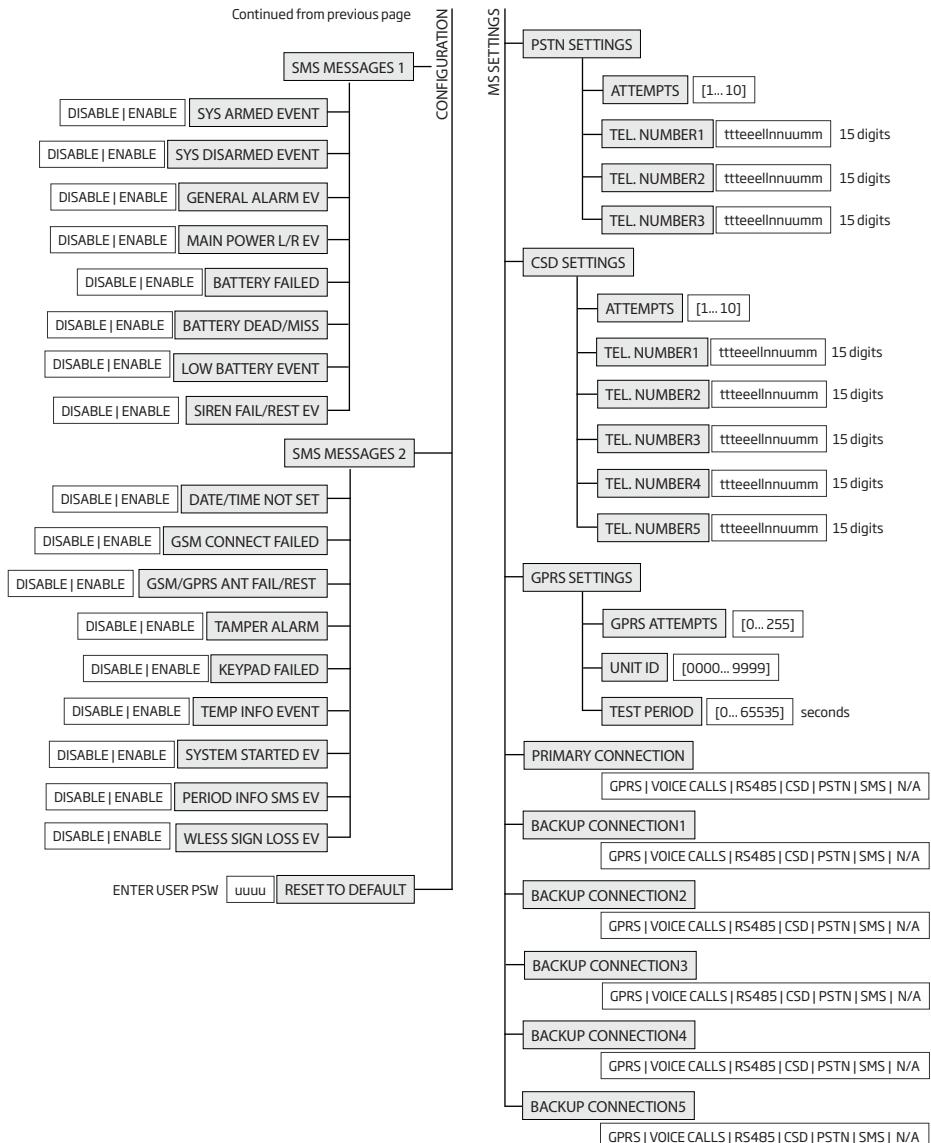


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### **32.1.2. EKB3 - LED Keypad**

EKB3 is a LED keypad intended for using with ESIM364 alarm system.

#### **Main EKB3 features:**

- Alarm system arming and disarming (see **12.4. EKB3 Keypad and User Password**).
- 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 **32.1.2.3. Visual and Audio Indications**).
- Audio indication by built-in buzzer (see **32.1.2.3. Visual and Audio Indications**).
- Keypad partition switch (see **23.3. Keypad Partition and Keypad Partition Switch**).

The system configuration by EKB3 keypad is performed by activating the Configuration mode (see **5. CONFIGURATION METHODS**) and entering the required parameters & values. ESIM364 system allows to connect up to 4 EKB3 keypads.

#### **32.1.2.1. Technical Specifications**

##### **32.1.2.1.1 Electrical & Mechanical Characteristics**

Power Supply	12-14V —— 150mA max
Maximum Keypad Connection Cable Length	100 m.
Dimensions	140x100x18mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Range of Operating Temperatures	-30...+55°C

##### **32.1.2.1.2 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)
BYP	Steady ON - zone bypass mode
1-12	Steady ON - violated zone Z1-Z12

##### **32.1.2.1.3 Keys Functionality**

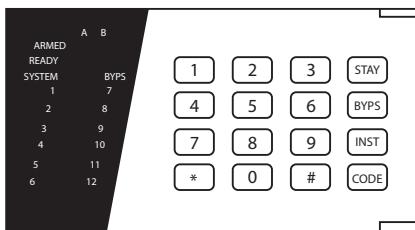
[BYP]	Zone bypass mode
[CODE]	Additional options - system fault indication / violated high-numbered zone indication / violated tamper indication
[*]	Cancel command
[#]	Confirm (enter) command
[0] ... [9]	Command typing
[1] ... [4]	Keypad partition switch / armed partition indication / violated partition indication
[0]	4 partitions arming
[STAY]	Manual system arming in Stay mode
[INST]	N/A

##### **32.1.2.1.4 Connector Functionality**

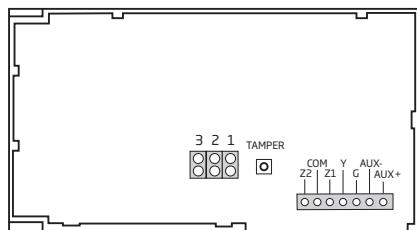
AUX+	Positive power supply terminal
AUX-	Negative power supply terminal
G	RS485 interface for communication (green wire)
Y	RS485 interface for communication (yellow wire)
COM	Common terminal for Z1
Z1	Security zone terminal
Z2	N/A
3,2	Keypad address pins
1	N/A

**47**

FRONT SIDE



BACK SIDE



### 32.1.2.1.5 Keypad Address

Pins **3** and **2** located on the back side of the keypad are intended to set keypad address. The keypad address is set by putting the jumper (-s) on the pins. ESIM364 system allows to connect up to 4 EKB3 keypads - each set under different address. Jumper combinations for different keypad address configuration are indicated in the table below.

#### Address Configuration

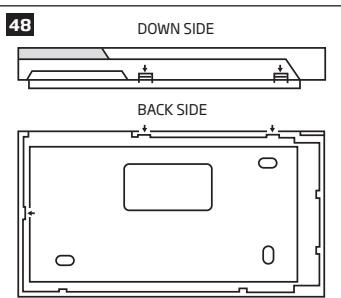
Jumper position	Address
	Keypad 1
	Keypad 2
	Keypad 3
	Keypad 4

**NOTE:** Pins **1** are inactive.

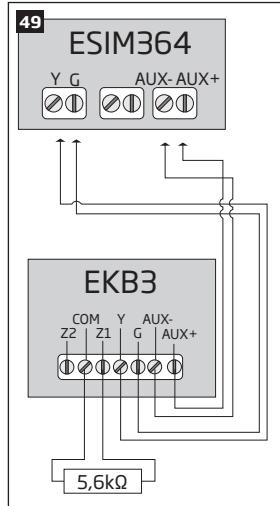
The address of each connected keypad is also indicated in *ELDES Configuration Tool* software.

### 32.1.2.2. Installation

1. Detach keypad holder from EKB3 keypad. Keypad holder detach points are marked with arrows (see Fig. No. 48)..



- Disconnect alarm system ESIM364 power supply and backup battery before connecting the wires.



- Wire up keypad terminals to ESIM364 alarm system respectively - **AUX+ to AUX+**, **AUX- to AUX-**, **Y to Y**, **G to G**. (see Fig. No. 49).
- Connect a sensor and the resistor across Z1 and COM terminals in accordance with zone connection Type 1 or Type 2 (see **2.3.2. Zone Connection Types**). As keypad zone Z1 is disabled by default, it can be enabled by SMS, ELDES Configuration Tool, EKB2, EKB3 and EK-BBW keypad. Z2 terminal is permanently inactive. Keypad zone Z1 must be enabled and resistor connected even if the tamper button alone is required (see Fig. No. 47).

**NOTE:** Keypad zone connection type can differ from selected on-board zone connection type.

**NOTE:** ATZ mode is NOT supported by keypad zones. ATZ mode is ineffective for keypad zones when enabled.

- Set the keypad address by combining DIP switch positions (see **32.1.2.1.5 Keypad Address**).
- Infix the keypad into the holder (see Fig. No. 48).

**ATTENTION:** Before fixing the keypad into the holder please , make sure that the tamper is properly pressed (see Fig. No. 47).

- Power up ESIM364 alarm system.
- EKB3 keypad is ready.

For more details on multiple keypad wiring, please refer to **3.2.7. RS485**.

### 32.1.2.3. Visual and Audio Indications

EKB3 keys have a LED back-light, therefore it is possible to use this keypad even in dark premises. The back-light lasts for 3 minutes after the last key-stroke while the system is disarmed. In case of alarm, the keypad back-light turns ON and lasts until the system is disarmed.

The built-in buzzer uses two types of sound signals - three short beeps and one long beep. Three short beeps stand for successfully carried out configuration command, one long beep - for invalid configuration command. In addition, the buzzer emits short beeps in case of alarm and exit/entry delay countdown.

### 32.1.2.4. EKB3 Zone & Tamper

Keypad EKB3 has one wired zone Z1 and one tamper button. By default, the keypad zone Z1 is disabled. The keypad zone can be enabled by SMS, EKB2 keypad, EKB3 keypad, EKB3W keypad and *ELDES Configuration Tool* software (see **14.9. Disabling and Enabling Zones**). Zone Z1 is enabled, it operates like any other system zone, therefore a sensor can be connected to it. In addition, Z1 and COM terminals must be connected with resistor of 5,6kΩ nominal.

The tamper button is intended for monitoring the enclosure status of EKB3, therefore the system causes alarm if the enclosure is illegally opened. Keypad zone Z1 must be enabled and resistor connected even if the tamper button alone is required.

### **32.1.3. EPGM1 - Hardwired Zone & PGM Output Expansion Module**

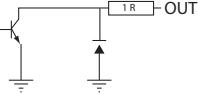
EPGM1 is a hardwired zone & PGM output expansion module intended for using with ELDES alarm systems.

#### **Main EPGM1 features:**

- Hardwired zone expansion. Each module adds 16 additional zones;
- Hardwired PGM output expansion. Each module adds 2 additional PGM outputs for electrical appliance connection;
- Up to 32 hardwired zone and up to 4 hardwired PGM output expansion.

#### **32.1.3.1. Technical Specifications**

##### **32.1.3.1.1 Electrical & Mechanical Characteristics**

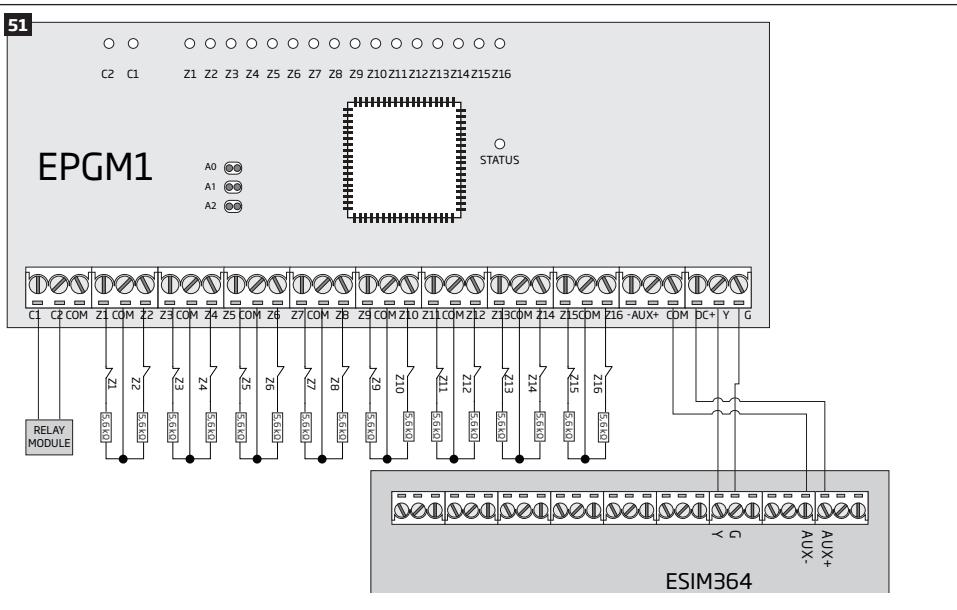
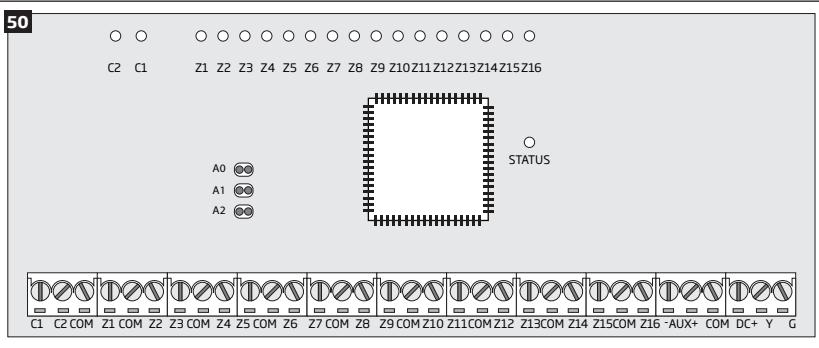
Power Supply	10-24V --- 100mA max without auxiliary equipment.
Number of Digital Inputs	16
Nominal Resistance	5,6kΩ
Number of PGM Outputs	2
Maximum PGM Output Current	250 mA
EPGM1 PGM Output Circuit	 <p>Open collector output. Output is pulled to COM when turned on.</p>
Maximum Commuting PGM Output Values	Voltage - 30V; current 250mA
AUX: Auxiliary Equipment Power Supply	13,8V --- 500 mA max
Dimensions	118 x 47 mm
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Range of Operating Temperatures	-20...+55°C

##### **32.1.3.1.2 LED and Pin Functionality**

C2, C1	PGM output C1, C2 status - on/off
Z1 - Z16	Zone Z1 - Z16 state - alarm/restore
STATUS	EPGM1 micro-controller status
A0	EPGM1 module address pins
A1	N/A
A2	N/A

##### **32.1.3.1.3 Connector Functionality**

C1, C2	PGM output terminals
Z1 - Z16	Security zone terminals
AUX-	Negative power supply terminal for auxiliary equipment
AUX+	Positive power supply terminal for auxiliary equipment
Y	RS485 interface for communication (yellow wire)
G	RS485 interface for communication (green wire)
COM	Negative power supply terminal
DC+	Positive power supply terminal



#### **32.1.3.1.4 EPGM1 Address**

ESIM364 system allows to connect up to 2 EPGM1 modules - each set under different address. The module address can be set by putting or removing the jumper from the A0 pins implemented in horizontal position (see Fig. No. 50). Jumper combinations for different EPGM1 module address configuration are indicated in the table below.

## Address Configuration

<b>Jumper position</b>	<b>Address</b>
	Module 1
	Module 2

### 32.1.3.2. Installation

1. Disconnect ESIM364 alarm system main power supply and backup battery.
2. Connect EPGM1 **DC+** terminal to ESIM364 **AUX+** terminal, EPGM1 **COM** terminal to ESIM364 **AUX-** terminal, EPGM1 **Y** and **G** terminals must be connected to ESIM364 **Y** and **G** terminals respectively (see Fig. No. 51).
3. Connect the resistors and sensors to EPGM1 module according to zone connection Type 1, Type 2 or Type 3. See **2.3.2 Zone Connection Types**.
4. Set the EPGM1 module address by putting or removing the jumper from the A0 pins (see **32.1.3.1.4. EPGM1 Address**).
5. Power up ESIM364 system.
6. Upon successful startup indicator **STATUS** should be blinking indicating successful EPGM1 operation.
7. EPGM1 is ready for use with ESIM364 alarm system.

**NOTE:** EPGM1 zone connection type can differ from selected on-board zone connection type.

**NOTE:** ATZ mode is NOT supported by EPGM1 zones. ATZ mode is ineffective for EPGM1 zones when enabled for on-board zones.

For more details on multiple EPGM1 module wiring, please refer to **3.2.7. RS485**

## 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 **32.2.1 iButton Key Reader and Buzzer**

### 32.2.1. iButton Key Reader and Keys

The iButton key is a chip enclosed in a stainless steel tab usually implemented in a small plastic holder. Each iButton key holds a unique identity code (ID) which is used for alarm system ESIM364 arming and disarming procedure.

#### Main iButton features:

- Up to 16 iButton keys per alarm system unit ESIM364;
- Communication via 1-Wire interface.

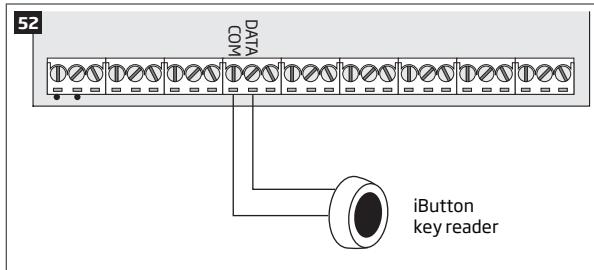
#### 32.2.1.1. Technical Specifications

##### 32.2.1.1.1 Electrical & Mechanical Characteristics

Supported iButton Key Model	Maxim/Dallas DS1990A
Communication Interface	1-Wire
Maximum Cable Length for 1-Wire Communication	up to 30 meters

#### 32.2.1.1.2 Installation

1. Disconnect ESIM364 alarm system main power supply and backup battery.
2. Connect iButton key reader contact wires to 1-Wire interface on ESIM364 alarm system: **COM** and **DATA** terminals respectively.



3. Power up ESIM364 alarm system.
4. iButton® key reader is ready for use with ESIM364 alarm system.

For more details on iButton key management, please refer to **11. iBUTTON KEYS**.

### 32.3. Modules Interface

#### 32.3.1. EPGM8 - Hardwired PGM Output Expansion Module

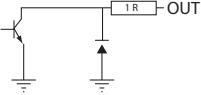
EPGM8 is a PGM output expansion module intended for using with alarm system ESIM364. This module allows to connect up to additional 8 electrical appliances.

##### Main EPGM8 features:

- PGM output expansion adding 8 additional PGM outputs;
- Compatible with ESIM364 alarm system

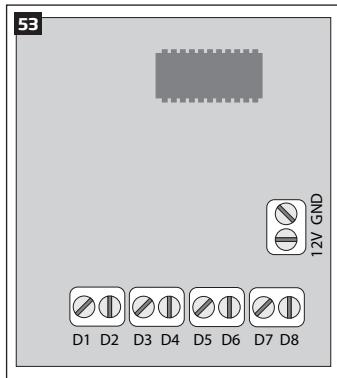
##### 32.3.1.1. Technical Specifications

###### 32.3.1.1.1. Electrical & Mechanical Characteristics

Power Supply	10-24V --- 100mA max
Number of PGM Outputs	8
EPGM8 PGM Output Circuit	 <p>Open collector output. Output is pulled to COM when turned on.</p>
Maximum Commuting PGM Output Values	Voltage - 30V; current 500mA
Dimensions	40 x 55 x 15 mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Range of Operating Temperatures	-20...+55°C

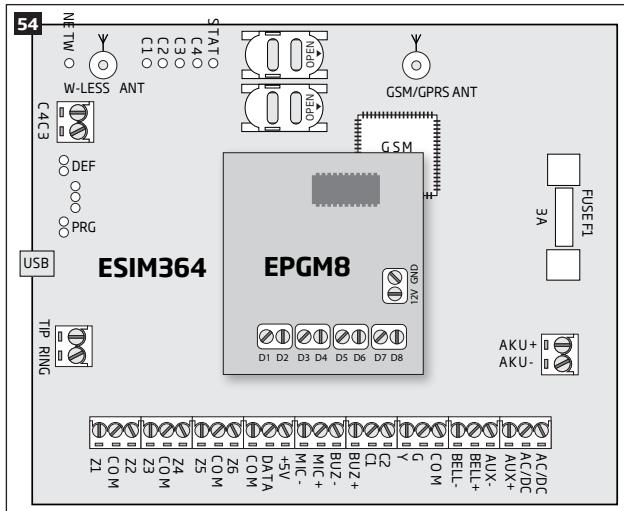
###### 32.3.1.1.2. Connector Functionality

D1 - D8	PGM output terminals
12V	Positive power supply terminal
GND	Negative power supply terminal

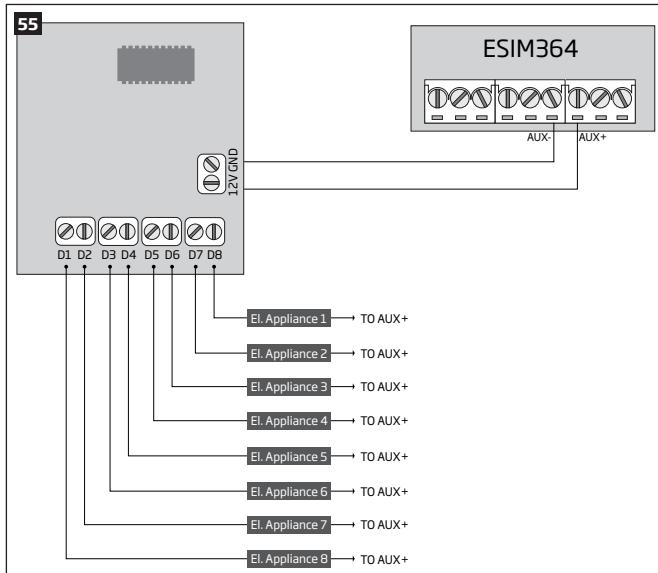


### 32.3.1.2. Installation

1. Disconnect ESIM364 alarm system main power supply and backup battery.
2. Insert EPGM8 pins into appropriate ESIM364 alarm system slots (see Fig. No. 54)



3. Connect EPGM8 **12V** positive power supply terminal with ESIM364 alarm system **AUX+** terminal and EPGM8 **GND** terminal with ESIM364 alarm system **AUX-** terminal. (see Fig. No. 55).
4. Connect the electrical appliances to **D1 - D8** PGM outputs. (see Fig. No. 55).



5. Power up ESIM364 alarm system.
6. Enable EPGM8 mode using EKB2, EKB3, EKB3W keypads or *ELDES Configuration Tool* software. For more details, please refer to software's HELP section or **18.2.1. EPGM8 Mode**.
7. EPGM8 is ready for use with ESIM364 alarm system.

### 32.3.2. EA1 - Audio Output Module

EA1 audio output module enables a duplex audio connection for ESIM364 alarm system.

#### Main EA1 features:

- Two-way voice conversation during a phone call;
- Possibility to connect headphones or desktop speakers.

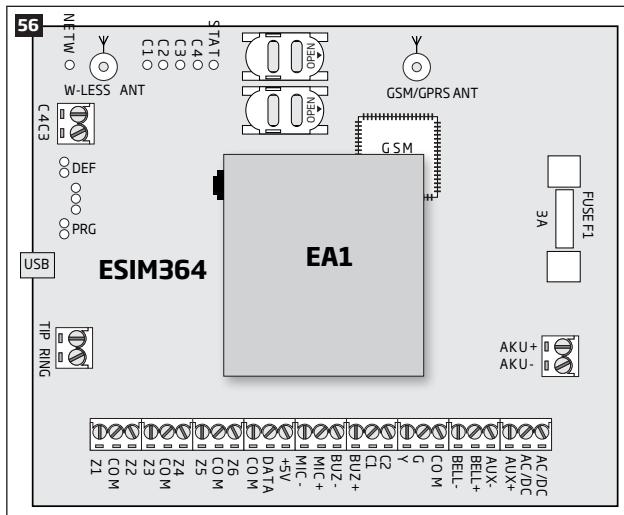
#### 32.3.2.1. Technical Specifications

- 3,5 mm female jack
- Dimensions: 35 x 33 x 12 mm

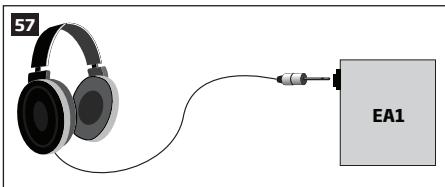
#### 32.3.2.2. Installation

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.

### **32.3.3. EA2 - Audio Output Module with Amplifier**

EA2 audio output module enables a duplex audio connection for ESIM364 alarm system.

## Main EA2 features:

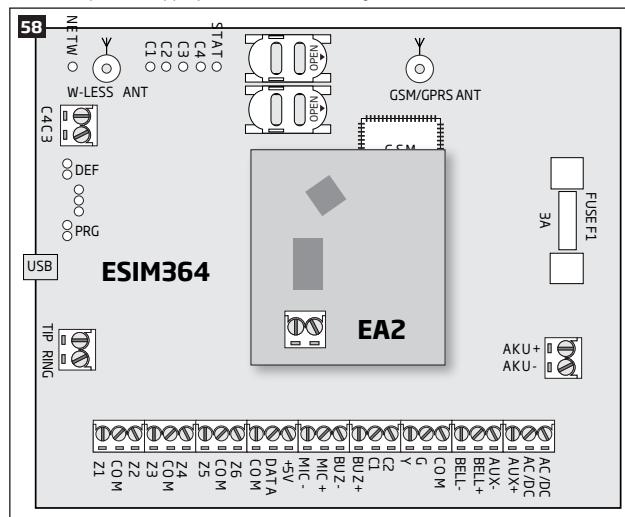
- Two-way voice conversation during a phone call;
  - Possibility to connect a speaker.

### **32.3.3.1. Technical Specifications**

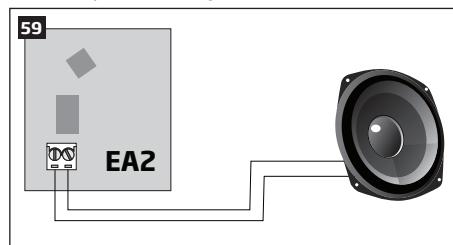
- 1W 8Ω audio amplifier
  - Dimensions: 41 x 40 x 24 mm

### **32.3.3.2. 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. ELDES WIRELESS DEVICES

### 33.1. EKB3W - Wireless LED Keypad

EKB3W is a wireless LED keypad intended to use with ELDES alarm systems.

#### Main EKB3W features:

- Alarm system arming and disarming (see **12.5. EKB3W Keypad and User Password**).
- 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 **33.1.5. Visual and Audio Indications**).
- Audio indication by built-in buzzer (see **33.1.5. Visual and Audio Indications**).
- Keypad partition switch (see **23.3. Keypad Partition and Keypad Partition Switch**).

The system configuration by EKB3W keypad is performed by activating the Configuration mode (see **5. CONFIGURATION METHODS**) and entering the required parameters & values. ESIM364 system allows to connect up to 4 EKB3W keypads.

#### 33.1.1. Technical Specifications

##### 33.1.1.1. Electrical & Mechanical Characteristics

Battery Type	1,5V Alkaline AAA type
Number of Batteries	3
Battery Operation Time	~12 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-30...+55°C
Dimensions	140 x 100 x 18 mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless

\* The operation time depends on different conditions and may vary.

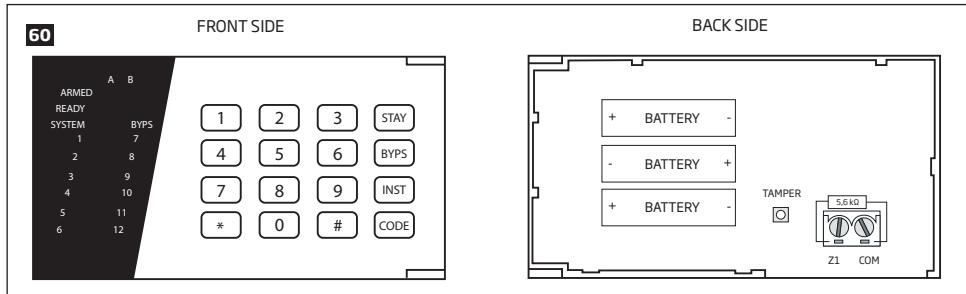
##### 33.1.1.2. LED Functionality

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)
BYPASS	Steady ON - zone bypass mode
1-12	Steady ON - violated zone Z1-Z12

##### 33.1.1.3. Keys Functionality

[BYPAS]	Zone bypass mode
[CODE]	Additional options - system fault indication / violated high-numbered zone indication / violated tamper indication
[*]	Cancel command / keypad partition switch (if enabled)
[#]	Confirm (enter) command
[0] ... [9]	Command typing
[STAY]	Manual system arming in Stay mode
[INST]	N/A

### 33.1.1.4. Main Unit & Connector Functionality

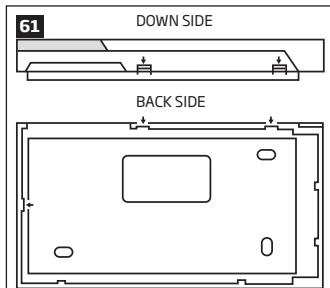


TAMPER | Tamper-button for EKB3W enclosure status monitoring  
+ / - | Battery slots

COM | Common contact  
Z1 | Security zone terminal

### 33.1.2. Installation

1. Detach keypad holder from EKB3W front side. Keypad holder detach points are marked with arrows (see Fig. No. 61).

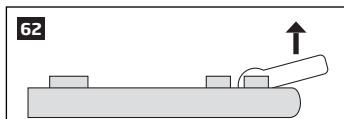


2. Fix the keypad holder on the wall using the screws.
3. Connect a sensor and the resistor across **Z1** and **COM** terminals in accordance with zone connection Type 1 or Type 2 (see **2.3.2. Zone Connection Types**). As keypad zone **Z1** is disabled by default, it can be enabled by SMS, *ELDES Configuration Tool*, EKB2, EKB3 and EKB3W keypad. Keypad zone **Z1** must be enabled and resistor connected even if the tamper button alone is required (see Fig. No. 60).

**NOTE:** Keypad zone connection type can differ from selected on-board zone connection type.

**NOTE:** ATZ mode is NOT supported by keypad zones. ATZ mode is ineffective for keypad zones when enabled.

4. Remove the plastic tab inserted between one of the battery terminals and battery slot contacts (see Fig. No. 62).



**ATTENTION:** Before fixing the keypad into the holder please, make sure that the tamper is properly pressed (see Fig. No. 60).

5. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details. The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EKB3W closer to alarm system device and bind it again.
6. Upon the successful binding process, the built-in mini buzzer of EKB3W device provides 3 short beeps and the system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EKB3W closer to alarm system device and bind anew.
8. EKB3W keypad is ready for use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.1.6. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### 33.1.3. EKB3W Zone & Tamper

Upon successful EKB3W wireless LED keypad contact binding process, the system adds 1 wireless instant zone intended for wired sensor connection. By default, the keypad zone Z1 is disabled. The keypad zone can be enabled by SMS, EKB2 keypad, EKB3 keypad, EKB3W keypad and *ELDES Configuration Tool* software (see **14.9. Disabling and Enabling Zones**). When Z1 is enabled, it operates like any other system zone, therefore a sensor can be connected to it. In addition, Z1 and COM terminals must be connected with resistor of 5,6kΩ nominal.

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EKB3W:

- **By tamper button.** EKB3W has a built-in tamper button intended for monitoring the enclosure status. Once the enclosure of EKB3W is illegally opened, the tamper button becomes unpressed. This action is followed by alarm which is sent by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number.
- **By wireless connection loss.** The wireless connection loss between EKB3W and ESIM364 alarm system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if the wireless zone is disabled.

### 33.1.4. Battery Replacement

1. Open EKB3W enclosure.
2. Remove all 3 old batteries from the battery slots.
3. Position the 3 new 1,5V alkaline AAA type batteries according to the appropriate battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EKB3W.
4. Insert the batteries into the battery slots.
5. Batteries replaced.

For more details, please refer to **33.1.2. Installation**.

**ATTENTION:** Only 1,5V Alkaline AAA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

### 33.1.5. Visual and Audio Indications

EKB3W keys have a LED back-light, which will be activated once any key is pressed. Due to battery power saving reasons, the back-light and LED light last for 10 seconds after the last key-stroke.

The built-in buzzer uses two types of sound signals - three short beeps and one long beep. Three short beeps stand for successfully carried out configuration command, one long beep - for invalid configuration command. The buzzer emits short beeps during exit delay. Due to battery saving reasons the buzzer will beep during entry delay and in case of alarm only if the violated zone is of the associated EKB3W keypad.

**NOTE:** The keypad will not activate any LED indicators, nor the back-light if not bound to the system.

For more details, please refer to **33.1.7. Wireless Communication, Sleep Mode and Back-light Timeout**

### 33.1.6. Restoring Default Parameters

1. Remove one battery from EKB3W.
2. Press and hold the [\*] key.
3. Insert the battery back to EKB3W.
4. Hold the [\*] key until LED **READY** starts flashing.
5. Wait until LED **READY** turns off and LED **ARMED** starts flashing.
6. Release the [\*] key.
7. Parameters reset to default.

### 33.1.7. Wireless Communication, Sleep Mode and Back-light Timeout

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

1. 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.
2. 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:

**Set Back-light Timeout**

**Config Tool**

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 **19. WIRELESS DEVICES**.

**NOTE:** Even if Back-light Timeout has expired, the character will be considered as type in once the appropriate EKB3W key is pressed.

### 33.2. EW1 - Wireless Zone & PGM Output Expansion Module

#### Main EW1 features:

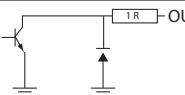
- 2 zones for wired sensor connection;
- 2 PGM outputs for electrical appliance connection;
- Powered by external power supply.

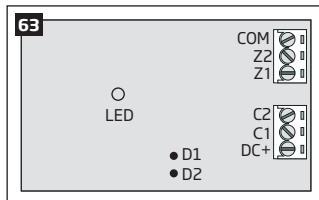
Wireless expansion module EW1 is a wireless device with 2 zones and 2 PGM outputs. This expansion module connects to ELDES wireless alarm systems and enables wireless access for to 2 wired devices such as movement PIR sensors, magnetic door contacts etc. In addition it allows to connect and control up to 2 appliances, i.e. lighting, heating etc. After the wiring process to EW1 it is necessary to bind EW1 to the alarm system by sending a corresponding command via SMS text message or using software *ELDES Configuration Tool*.

It is possible to connect up to 32 EW1 devices to ESIM364 alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

#### 33.2.1. Technical Specifications

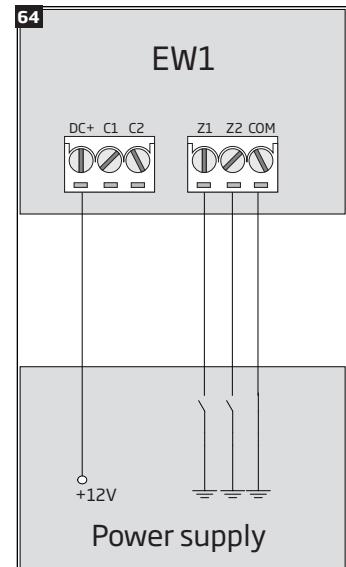
##### 33.2.1.1. Electrical & Mechanical Characteristics

Power Supply	7-15V	—	20mA max
Number of Zones	2		
Zone Connection Type	Normally closed (NC)		
Number of PGM Outputs	2		
Maximum Comuting PGM Output Values	Voltage - 30V; current 500mA		
EW1 PGM Output Circuit			Open collector output. Output is pulled to COM when turned on.
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)		
Range of Operating Temperatures	-20...+55°C		
Dimensions	38x60x12mm		
Humidity	0-90% RH @ 0...+40 °C (non-condensing)		
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas		
Compatible with Alarm Systems	ELDES Wireless		



##### 33.2.1.2. Connector & LED Functionality

COM	Common terminal for power supply, zones
Z2, Z1	Security zone terminals
C2, C1	PGM output terminals
DC+	Positive power supply terminal
D1, D2	Pins for restoring default parameters
LED	EW1 status



### **33.2.2. Installation**

1. Disconnect ESIM364 alarm system main power supply and backup battery.
2. Wire up EW1 as indicated in Fig. No. 64.
3. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
4. The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EW1 closer to ESIM364 alarm system device and bind it again.
5. EW1 module is ready for use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.2.4 Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### **33.2.3. EW1 Zones, PGM Outputs & Tamper**

Upon successful EW1 module binding process, the system adds 2 wireless instant zones intended for wired sensor connection and 2 wireless PGM outputs intended for electrical appliance connection and control.

The wireless connection loss between EW1 and ESIM364 alarm system leads to system alarm regardless of system being armed or disarmed. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if both wireless zones are disabled.

### **33.2.4. Restoring Default Parameters**

1. Disconnect EW1 power supply.
2. Short circuit (connect) pins D1 and D2.
3. Power up EW1 and wait until LED provides several short flashes.
4. Disconnect power supply.
5. Remove short-circuit from D1 and D2 pins.
6. Power up EW1.
7. Parameters restored to default.

## **33.3. EWP1 - Wireless Motion Detector**

### **Main EWP1 features:**

- Violated zone detection by built-in PIR movement sensor.

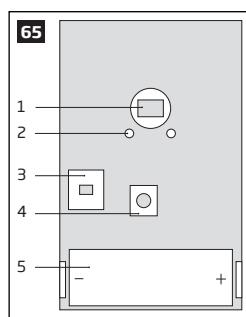
EWP1 is a wireless device with built-in PIR movement sensor and operates with ELDES wireless alarm systems. The user only needs to switch on the EWP1 sensor and bind it to ESIM364 alarm system by sending a corresponding command via SMS text message or using software *ELDES Configuration Tool*. User can also monitor temperature of the surrounding areas in real-time as EWP1 has a built-in temperature sensor. It is possible to connect up to 32 EWP1 devices to ESIM364 alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.3.1. Technical Specifications

#### 33.3.1.1. Electrical & Mechanical Characteristics

Battery Type	ER14505 AA Lithium Thionyl Chloride
Battery Voltage; Capacity	3,6 V; 2,4 Ah
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-10 ... +55°C
Dimensions	104x60x33mm
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Detection Coverage Angle	90°
Maximum Detection Distance	10 meters
Compatible with Alarm Systems	ELDES Wireless
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas

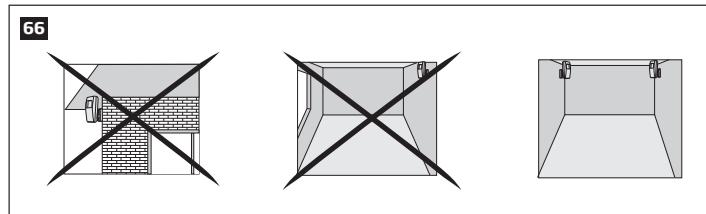
\* The operation time depends on different conditions and may vary.



- 1 Motion detector
- 2 LED indicators informing about status of PIR sensor EWP1
- 3 TAMPER button automatically identifies when the box of sensor EWP1 is open or closed
- 4 RESET button for resetting system parameters
- 5 ER14505 3,6 V Lithium Thionyl Chloride battery

### 33.3.2. Installation

- Choose the place where intrusion into the premises is the most probable and install the device. To avoid false triggers of the system do not install it in the following places:
  - directing the lens to direct sunlight, for example, to the window of the premises;
  - where there is a risk of sudden temperature alteration, for example, near a fireplace or heating system;
  - where there is an enlarged possibility of dust or air flow;
  - behind the curtain or some other cover blocking the detected zone.



- Fix EWP1 sensors mounting holder with two screws to the wall and attach the sensor.
- Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
- The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWP1 closer to alarm system device and bind it again.
- EWP1 is ready to use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.3.5. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### 33.3.3. EWP1 Zone & Tamper

Upon successful EWP1 sensor binding process, the system adds 1 wireless instant zone intended for movement detection. By, default, the alarm is caused instantly if any movement is detected in coverage area of the sensor (when system is armed).

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EWP1 sensor:

- By tamper button.** EWP1 has a built-in tamper button intended for monitoring the enclosure status. Once the enclosure of EWP1 is illegally opened, the tamper button becomes unpressed. This action is followed by alarm which is sent by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number.
- By wireless connection loss.** The wireless connection loss between EWP1 sensor and ESIM364 system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if the wireless zone is disabled.

### 33.3.4. Battery Replacement

- Open EWP1 enclosure.
- Remove the old battery from the battery slot.
- Position the new battery according to the appropriate battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EWP1.
- Insert the battery into the battery slot.
- Batteries replaced.

For more details, please refer to **33.3.2. Installation**.

**ATTENTION:** Only ER14505 Lithium Thionyl Chloride AA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

### 33.3.5. Restoring Default Parameters

1. Remove any battery from EWP1.
2. Press and hold the RESET button.
3. Insert the battery back to EWP1.
4. Hold the RESET button until LED indicator provides several short flashes.
5. Release the RESET button.
6. Parameters restored to default.

## 33.4. EWD1 - Wireless Magnetic Door Contact

### Main EWD1 features:

- Violated zone detection by magnetic contact;
- Panic button.

EWD1 is a wireless device with magnetic contact and panic button which is used to secure doors, windows or any other opening parts and it operates with ELDES wireless alarm systems. EWD1 is bind to ESIM364 alarm system by sending a corresponding command via SMS text message or using software *ELDES Configuration Tool*. When EWD1 is connected to the system, two wireless zones are added. First wireless zone is used to monitor the magnetic contacts and the second wireless zone is for managing the panic button. By default panic button zone is configured as Silent zone and in case the panic button is pressed, the system causes silent alarm (no siren is activated).

It is possible to connect up to 32 EWD1 devices to ESIM364 alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.4.1. Technical Specifications

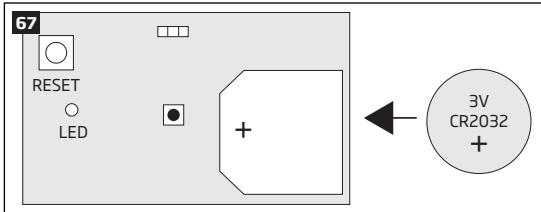
#### 33.4.1.1. Electrical & Mechanical Characteristics

Battery Type	CR2032 3V Lithium
Number of Batteries	1
Battery Operation time	15 months*
Wireless Transmitter-Receiver Frequency	868 MHz (EU version) / 915 MHz (US version)
Range of Operating Temperatures	-20...+55°C
Door Contact Dimensions	60x37x18mm
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Magnet Dimensions	60x17x16mm
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless

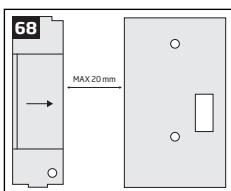
\* The operation time depends on different conditions and may vary.

### 33.4.2. Installation

1. Open EWD1 enclosure and insert the battery (Fig. No. 67).



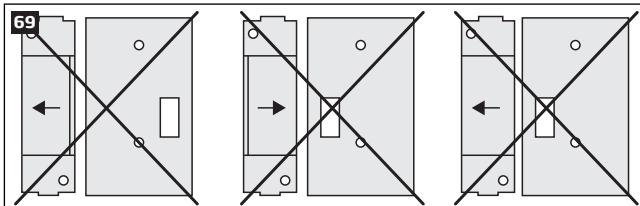
2. EWD1 consists of two parts: a magnet and a sensor. Sensor components are: a mounting part and the cover. Magnet components are: a mounting part and the cover.
- 2.1 Fix the sensor mounting part with two screws on the door or window jamb.
- 2.2 Fix the magnet mounting part with two screws next to the sensor mounting part on door or window frame. The correct fixing position is indicated in Fig. No. 68.



**NOTE:** The distance between magnet and sensor can be up to 20 mm only.

- 2.3 The sensor should be attached to the fixed sensors mounting part. When attaching sensor pay attention to the tamper (micro switch) - it must be pressed.
- 2.4 The magnet cover should be attached to the fixed magnet mounting part.

**NOTE:** It is not recommended to fix EWD1 in other ways than with screws, e.g. with duck tape. See Fig. No. 69 for the incorrect ways of fixing the magnetic door contact.



3. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
4. The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWD1 closer to alarm system device and bind it again.
5. EWD1 magnetic door contact is ready to use.

**NOTE:** If you are unable to bind the wireless device please, restore the parameters of the wireless device to default and try again. See **33.4.5. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0.5 meters.

### **33.4.3. EWD1 Zones & Tamper**

Upon successful EWD1 magnetic door contact binding process, the system adds 1 wireless Instant zone and 1 wireless Panic/Silent zone. The wireless zones are applied to the following EWD1 components respectively:

- **Magnetic contact** - by default, causing alarm if doors/windows is opened when system is armed.
- **Panic button** - by default, causing silent alarm instantly when pressed.

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EWD1:

- **By tamper button.** EWD1 has a built-in tamper button intended for monitoring the enclosure status. Once the enclosure of EWD1 is illegally opened, the tamper button becomes unpressed. This action is followed by alarm which is sent by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number.
- **By wireless connection loss.** The wireless connection loss between EWD1 and ESIM364 system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if both wireless zones are disabled.

### **33.4.4. Battery Replacement**

1. Open EWD1 enclosure.
2. Remove the old battery from the battery slot.
3. Position the new battery according to the appropriate battery slot positive terminal indicated.
4. Insert the battery into the battery slot.
5. Battery replaced.

For more details, please refer to **33.4.2. Installation**.

**ATTENTION:** Only ER14505 Lithium Thionyl Chloride AA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

### **33.4.5. Restoring Default Parameters**

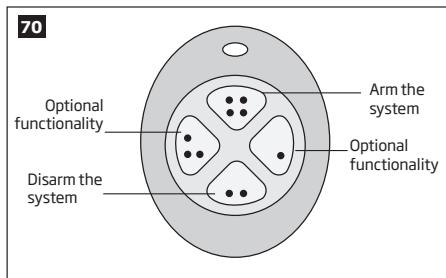
1. Remove the battery from EWD1.
2. Press and hold the RESET button.
3. Insert the battery back to EWD1.
4. Hold the RESET button until LED indicator provides several short flashes.
5. Release the RESET button.
6. Parameters restored to default.

### 33.5. EWK1 - Wireless Keyfob

#### Main EWK1 features:

- Alarm system arming & disarming;
- Panic button;
- PGM output control;
- Sound indication by built-in mini buzzer.

Keyfob EWK1 - is a wireless device intended to arm and disarm ESIM364 alarm system, to open and close the gates or to control any other device connected to the alarm system. Wireless keyfob EWK1 is compatible with ELDES wireless alarm systems, therefore user can easily bind it to the alarm system using *ELDES Configuration Tool* software or sending a corresponding SMS command. EWK1 keyfob features four configurable buttons intended to operate according to individual needs. After the button is pressed, EWK1 internal buzzer's sound signal confirms a transferred command to ESIM364 alarm system via wireless connection. The status of the sent command can be checked by attempting to receive the feedback signal from the alarm system. This can be performed by pressing down the same button and holding it for 3 seconds. 3 short sound signals indicate a successfully carried out command while 1 long beep stands for failed command and feedback signal failure. By default one pair of buttons is already configured to arm and disarm the alarm system.



The virtual zones of ESIM364 system are intended for EWK1 button configuration. Please, refer to software's *ELDES Configuration Tool* HELP section for more details.

It is possible to connect up to 5 EWK1 devices to ESIM364 alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

**NOTE:** Fig. No. 70 reflects the default EWK1 button configuration. All keyfob buttons are configurable according to individual needs.

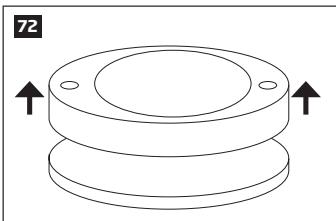
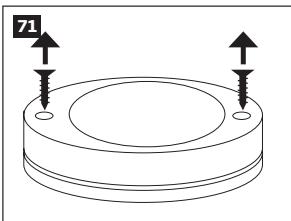
#### 33.5.1. Technical Specifications

##### 33.5.1.1. Electrical & Mechanical Characteristics

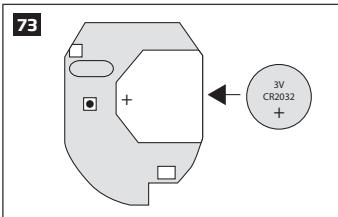
Battery Type	CR2032 Lithium
Battery Voltage; Capacity	3V; 240 mAh
Quantity of Batteries	1
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-20...+55°C
Wireless Keyfob Dimensions	54 x 42 x 13 mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless

\* The operation time depends on different conditions and may vary.

### 33.5.2. Installation



1. Unscrew the EWK1 keyfob housing.
2. Open EWK1 keyfob housing.
3. Insert CR2032 battery provided in the EWK1 package.  
Before inserting the battery, make sure that the battery's "+" sign is facing the outer side.



4. Close and screw up the keyfob housing.
5. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
6. While binding the device to the alarm system, press any EWK1 button several times.
7. EWK1 is ready to use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.5.5. Restoring Default Parameters** for more details.

### 33.5.3. EWK1 Zones (Panic Button)

EWK1 keyfob supports a Panic Button feature allowing to cause alarm at any time when the specified button is pressed. This feature can be configured using *ELDES Configuration Tool* software by creating a virtual zone of Panic/Silent or 24-Hour type and assigning it to Virtual Alarm option. The Panic Button feature can be set up on any button of EWK1. For more details, please refer to software's HELP section.

### 33.5.4. Battery Replacement

1. Open EWD1 enclosure.
2. Remove the old battery from the battery slot.
3. Position the new battery according to the appropriate battery slot positive terminal indicated.
4. Insert the battery into the battery slot.
5. Battery replaced.

For more details, please refer to **33.5.2 Installation**.

**ATTENTION:** Only CR2032 3V batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

### 33.5.5. Restoring Default Parameters

1. Remove the battery from EWK1 keyfob.
2. Press and hold  button.
3. Insert the battery back to EWK1.
4. Hold the button pressed until LED indicator provides several short flashes.
5. Release  button.
6. Parameters restored to default.

## 33.6. EWS1 - Wireless Indoor Siren

### Main EWS1 features:

- Audio alarm indication by built-in speaker.

EWS1 is a wireless device with built-in siren speaker and operates with ELDES wireless alarm systems. EWS1 has to be bind to the alarm system by sending a corresponding SMS text message or using software *ELDES Configuration Tool*. Upon successful EWS1 binding, the system adds one wireless zone and one wireless PGM output. The wireless zone is used to monitor the device (tamper - when the batteries are being removed) and the wireless PGM output is used to control the speaker. In case of alarm, the siren provides a sound alarm for one minute. The configuration of this parameter is disabled for EWS1 in order to save the battery power.

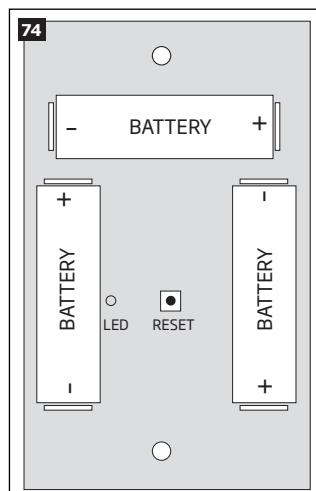
It is possible to connect up to 32 EWS1 devices to the alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.6.1. Technical Specifications

#### 33.6.1.1. Electrical & Mechanical Characteristics

Battery Type	1,5V Alkaline AA type
Number of Batteries	3
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-20...+55°C
Dimensions	123x73x36mm
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless
Acoustic sound level	~97 dB measured at 1 m

\* The operation time depends on different conditions and may vary.

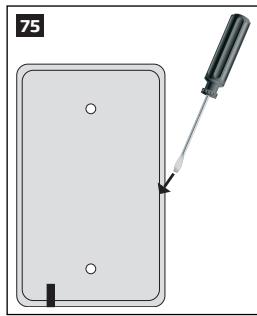


#### 33.6.1.2. Main Unit & LED Functionality

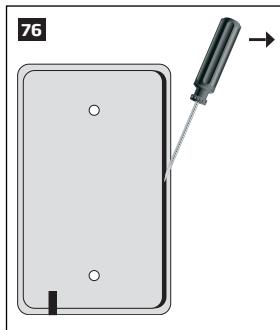
RESET	Button for restoring default parameters
+ / -	Battery slots
LED	EWS1 status indication

### 33.6.2. Installation

1. Open EWS1 enclosure.

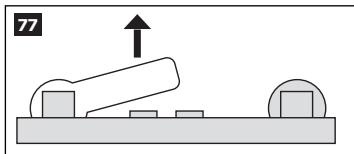


Insert a thin flat-shaped screwdriver or any tool alike into the gap located on the back of the enclosure (see Fig. No. 75).

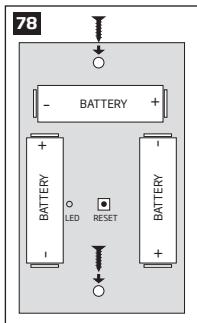


Push the screwdriver down to the right carefully in order to detach the enclosure parts from each other (see Fig. No. 76).

2. Once the enclosure is opened, remove the plastic tab inserted between one of the battery terminals and battery slot contact (see Fig. No. 77).



3. Fix the siren on the wall using the screws (see Fig. No. 78).



4. Close EWS1 enclosure. No tools are required for this action.
5. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
6. The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWS1 closer to alarm system device and bind it again.
7. EWS1 siren is ready for use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.6.5. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### 33.6.3. EWS1 Zone, PGM Output & Tamper

Upon successful EWS1 indoor siren binding process, the system adds 1 wireless Instant zone and 1 wireless Siren PGM output. The wireless zone is intended for EWS1 tamper control and the wireless PGM output is for siren control.

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. The wireless connection loss between EWS1 and ESIM364 system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if the wireless zone is disabled.

### 33.6.4. Battery Replacement

1. Open EWS1 enclosure.
2. Remove all 3 old batteries from the battery slots.
3. Position the 3 new 1,5V alkaline AA type batteries according to the appropriate battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EWS1
4. Insert the batteries into the battery slots.
5. Batteries replaced.

For more details, please refer to **33.6.2 Installation**.

**ATTENTION:** Only CR2032 3V batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

### 33.6.5. Restoring Default Parameters

1. Remove any battery from EWS1.
2. Press and hold the RESET button.
3. Insert the battery back to EWS1.
4. Hold the RESET button until LED indicator provides several short flashes.
5. Release the RESET button.
6. Parameters restored to default.

## 33.7. EWS2 - Wireless Outdoor Siren

### Main EWS2 features:

- Audio alarm indication by built-in speaker;
- Visual alarm indication by built-in LED indicators;
- Range of operating temperature: -30...+55°C.

EWS2 is a wireless outdoor device with a built-in siren speaker, LED indicators and operates with ELDES wireless alarm systems. EWS2 has to be bind to the alarm system by sending a corresponding SMS text message or using software *ELDES Configuration Tool*. Upon successful EWS2 binding process, the system adds one wireless zone and one wireless PGM output. In case of alarm, the siren provides a sound alarm for one minute. The configuration of this parameter is disabled for EWS2 in order to save the battery power.

It is possible to connect up to 32 EWS2 devices to the alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.7.1. Technical Specifications

#### 33.7.1.1. Electrical & Mechanical Characteristics

Battery Type	1,5V Alkaline AA type
Number of Batteries	4
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-30...+55°C
Dimensions	201 x 140 x 36 mm
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless
Acoustic sound level	~104 dB measured at 1 m

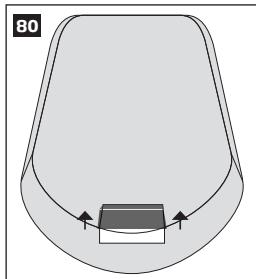
\* The operation time depends on different conditions and may vary.

#### 33.7.1.2. Main Unit, LED & Connector Functionality

RESET	Button for restoring default parameters
+ / -	Battery slots
LED indicators	Visual alarm indication
Tamper	Tamper button terminals
Bell+	Positive siren speaker terminal
Bell-	Negative siren speaker terminal

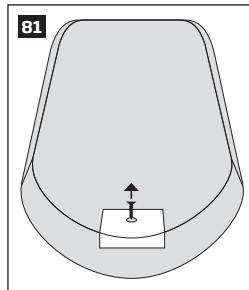
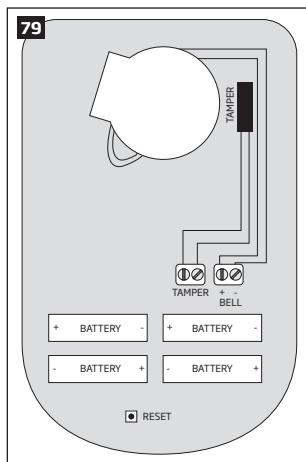
#### 33.7.2. Installation

1. Open EWS2 enclosure.

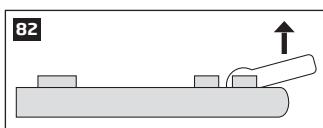


Remove the small blue lid located on the front side of the enclosure by pulling the lid up. (see Fig. No. 80).

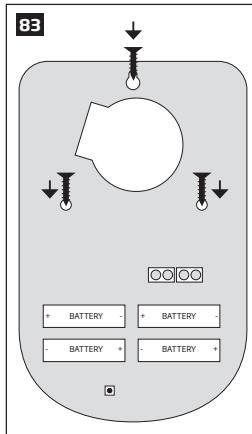
2. Once the enclosure is opened, remove the plastic tab inserted between one of the battery terminal and battery slot contact (see Fig. No. 82).



Unscrew the front side of the enclosure (see Fig. No. 81).



- Fix the siren on the wall using the screws (see Fig. No. 83).



- Close EWS2 enclosure (see Fig. No. 81, Fig. No. 80)
- Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
- The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWS2 closer to alarm system device and bind it again.
- EWS2 siren is ready for use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.7.6. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### 33.7.3. EWS2 Zone, PGM Output & Tamper

Upon successful EWS2 outdoor siren binding process, the system adds 1 wireless Instant zone and 1 wireless Siren PGM output. The wireless zone is intended for EWS2 tamper control and the wireless PGM output is for siren control.

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EWS2:

- By tamper button.** EWS2 has a built-in tamper button intended for monitoring the enclosure status. Once the enclosure of EWS2 is illegally opened, the tamper button becomes unpressed. This action is followed by alarm which is sent by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number.
- By wireless connection loss.** The wireless connection loss between EWS2 and ESIM364 alarm system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if the wireless zone is disabled.

### 33.7.4. Battery Replacement

- Open EWS2 enclosure.
- Remove all 4 old batteries from the battery slots.
- Position the 4 new 1,5V alkaline AA type batteries according to the appropriate battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EWS2
- Insert the batteries into the battery slots.
- Batteries replaced.

For more details, please refer to **33.7.2 Installation**.

**ATTENTION:** Only 1,5V Alkaline AA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

**NOTE:** The battery status can be monitored in real-time using ELDES Configuration Tool software.

### 33.7.5. Restoring Default Parameters

1. Remove any battery from EWS2.
2. Press and hold the RESET button.
3. Insert the battery back to EWS2.
4. Hold the RESET button until LED indicator provides several short flashes.
5. Release the RESET button.
6. Parameters restored to default.

## 33.8. EW1B - Battery-Powered Wireless Zone & PGM Output Expansion Module

### Main EW1B features:

- 2 zones for wired sensor connection;
- 2 PGM outputs for electrical appliance connection.

Wireless expansion module EW1B is a wireless device with 2 zones and 2 PGM outputs. This expansion module connects to ELDES wireless alarm systems and enables wireless access for to 2 wired devices such as movement PIR sensors, magnetic door contacts etc. In addition it allows to connect and control up to 2 appliances, i.e. lighting, heating etc. After the wiring process to EW1B it is necessary to bind EW1B to the alarm system by sending a corresponding command via SMS text message or using software *ELDES Configuration Tool*. It is possible to connect up to 32 EW1B devices to ESIM364 alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.8.1. Technical Specifications

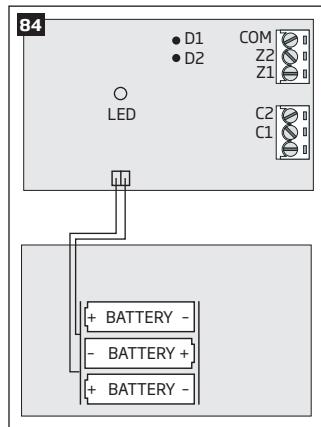
#### 33.8.1.1. Electrical & Mechanical Characteristics

Battery Type	1,5V Alkaline AA type
Number of Batteries	3
Battery Operation Time	~18 months*
Number of Zones	2
Zone Connection Type	Normally closed (NC)
Number of PGM Outputs	2
EW1B PGM Output Circuit	
Maximum Commuting PGM Output Values	Voltage - 30V; current 500mA
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless
Range of Operating Temperatures	-20...+55°C
EW1B PCB Dimensions	38x60x12mm
EW1B Enclosure Dimensions	90x110x40mm
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Enclosure rating	IP65

\* The operation time depends on different conditions and may vary.

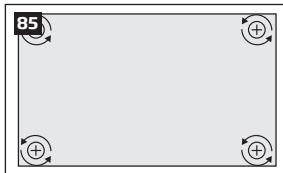
### 33.8.1.2. Connector & LED Functionality

COM	Common terminal for zones
Z2, Z1	Security zone terminals
C2, C1	PGM output terminals
D1, D2	Pins for restoring default parameters
LED	EW1B status

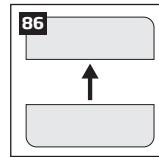


### 33.8.2. Installation

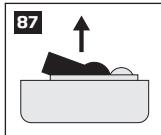
- Push down the screwdriver and turn it counter-clockwise to unscrew EW1B enclosure (see Fig. No. 85).



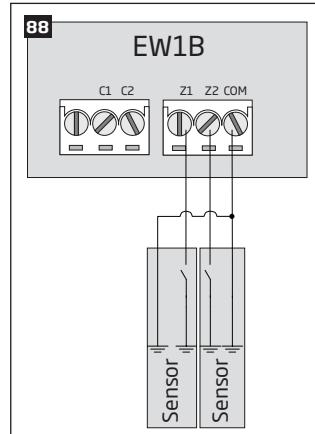
- Detach the front side of the enclosure by pulling the front side up (see Fig. No. 86).



- Remove the plastic tab inserted between one of the battery terminals and battery slot contacts (see Fig. No. 87).



- Connect the circuit as indicated in Fig. No. 88.



- Close EW1B enclosure (see Fig. No. 86, Fig. No. 85).
- Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
- The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EW1B closer to alarm system device and bind it again.
- EW1B is ready for use.

**NOTE:** If you are unable to bind the wireless device please , restore the parameters of the wireless device to default and try again. See **33.8.5. Restoring Default Parameters** for more details.

**ATTENTION:** The minimum wireless connection range between the wireless device and wireless antenna of ESIM364 system can be 0,5 meters.

### 33.8.3. EW1B Zones, PGM Outputs & Tamper

Upon successful EW1B module binding process, the system adds 2 wireless Instant zones intended for wired sensor connection and 2 wireless PGM outputs intended for electrical appliance connection and control. The wireless connection loss between EW1B and ESIM364 alarm system leads to system alarm regardless of system being armed or disarmed. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

### 33.8.4. Battery Replacement

1. Open EW1B enclosure.
2. Remove all 3 old batteries from the battery slots.
3. Position the 3 new 1,5V alkaline AA type batteries according to the appropriate battery slot positive/negative terminals as indicated.
4. Insert the batteries into the battery slots.
5. Batteries replaced.

For more details, please refer to **33.8.2. Installation**.

**ATTENTION:** Only 1,5V Alkaline AA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

**NOTE:** The battery status can be monitored in real-time using ELDES Configuration Tool software.

### 33.8.5. Restoring Default Parameters

1. Remove any battery from EW1B.
2. Short circuit (connect) pins D1 and D2.
3. Insert the battery back to EW1B.
4. Wait until LED provides several short flashes.
5. Remove short-circuit from D1 and D2 pins.
6. Parameters restored to default.

## 33.9. EWF1 - Wireless Smoke Detector

### Main EWF1 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 clears

EWF1 is a wireless photoelectric type smoke detector intended to use with ELDES wireless alarm systems. Photoelectric smoke detectors are generally more effective at detecting smouldering fires which smoulder for hours before bursting into flame. An optical method is used for the detection of visible smoke. When the concentration of smoke in the optical chamber exceeds a given threshold, EWF1 sounds the alarm and sends out a signal to the ESIM364 alarm system using the wireless connection and the system triggers the alarm. By default, when more than one EWF1 device is used, the system will automatically activate the interconnection feature (see **33.9.4. Interconnection**). ESIM364 system support up to 32 EWF1 devices, The maximum wireless connection range is 150 meters (in open areas).

### 33.9.1. Technical Specifications

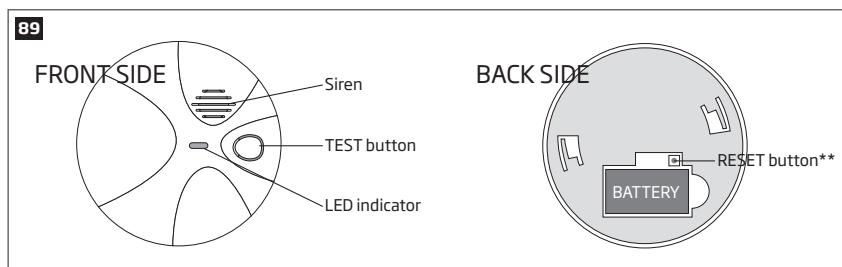
#### 33.9.1.1. Electrical & Mechanical Characteristics

Detection Type	Photoelectric chamber
Alarm Sound Level	85 Decibels at 3 meters
Battery Voltage	9V
Battery Type	6F22 primary alkaline
Number of Batteries	1
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Range of Operating Temperatures	5°C to 45°C
Humidity	0-90% RH @ 0...+40 °C (non-condensing)
Sensitivity to Smoke	3.0-6.0 % Obs/m
Dimensions	110mm Ø
Compatible with Alarm Systems	ELDES Wireless
Acoustic sound level	~98 dB measured at 1 m

\* The operation time depends on different conditions and may vary.

#### 33.9.1.2. Main Unit & LED Functionality

TEST	Button for testing / button for testing and restoring default parameters (if RESET button not available)
LED	EWF1 status indication
SIREN	Built-in speaker for audio alarm indication
RESET**	Button for restoring default parameters



\*\* Unavailable on some EWF1 models

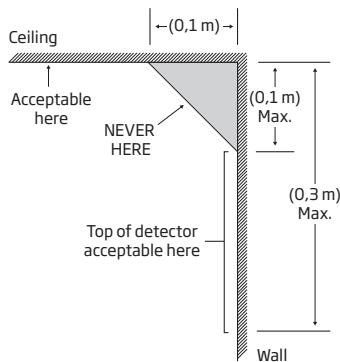
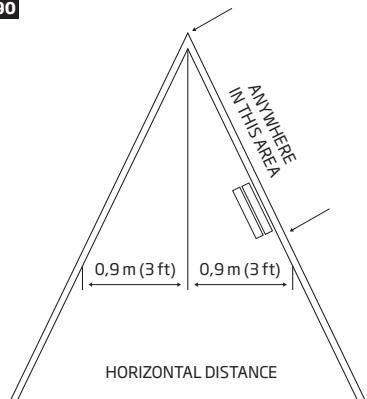
#### 33.9.2. PLACEMENT

1. Install the wireless smoke detector as close to the center of the ceiling as possible. If this is not practical, mount no closer than 10 centimeters from a wall or corner. Also, if local codes allow, install wireless smoke detectors on walls, between 10 and 30 centimeters from ceiling/wall intersections.
2. Install a minimum of two wireless smoke detectors in every house, no matter how small the house is.
3. Install a wireless smoke detector in each room that is divided by a partial wall (either coming down from the ceiling at least 20 centimeters, or coming up from the floor).
4. Install a wireless smoke detector in lived-in attics or attics which house electrical equipment like furnaces, air conditioners, or heaters.

**NOTE:** For best protection we recommend that you install a wireless smoke detector in every room.

## Recommended EWF1 placement locations

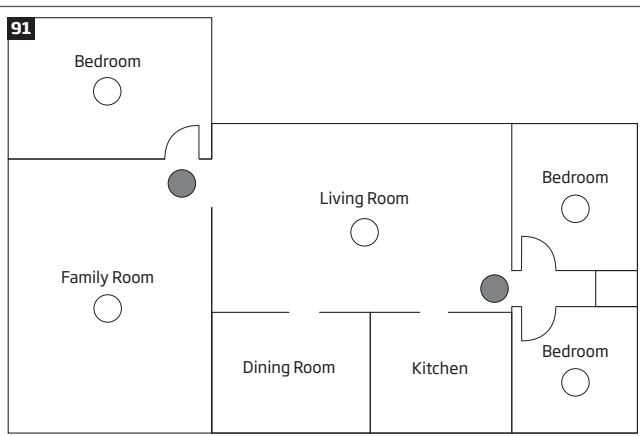
90



**NOTE:** Measurements shown are to the closest edge of the detector.

## Typical Single-Story House

Install a wireless smoke detector on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 9 meters long, install a wireless smoke detector at each end.  
If there is a basement: Install a wireless smoke detector on the basement ceiling at the bottom of the stairwell.



### LEGEND:

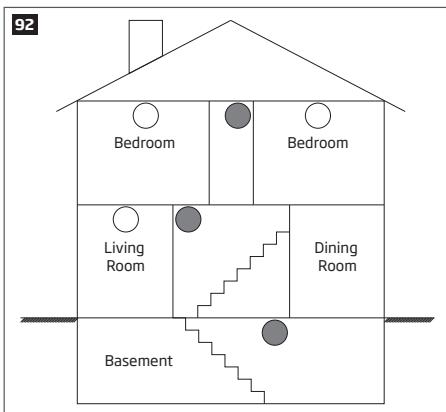
- Minimum required smoke detector locations.
- Recommended additional smoke detector locations

## Typical Multi-Story or Split-Level House

Install a wireless smoke detector on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 9 meter long, install a wireless smoke detector at each end. Please install a wireless smoke detector on the top of a first-to-second floor stairwell.

### LEGEND:

- Minimum required smoke detector locations.
- Recommended additional smoke detector locations



### Incorrect EWF1 Placement

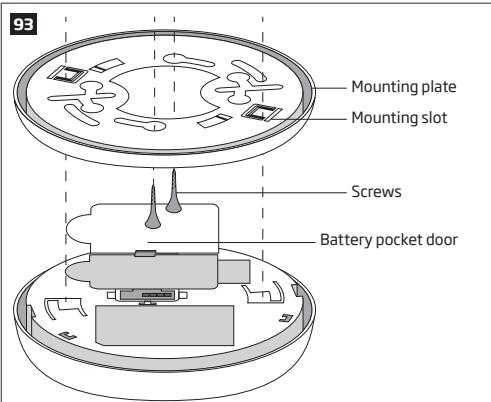
#### DO NOT place EWF1 in the following locations:

- Near appliances or areas where normal combustion regularly occurs (kitchens, near furnaces, hot water heaters). Use specialized wireless smoke detector with unwanted alarm control for this areas.
- In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install at least 3 meters away from these areas.
- Near air returns or heating and cooling supply vents. Install at least 1 meter away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
- In rooms where temperatures may fall below 5°C or rise above 45°C.
- In extremely dusty, dirty, or insect-infested areas where loose particles interfere with wireless smoke detector operation.

**ATTENTION:** Incorrect placement will result in a decrease of operational effectiveness.

### 33.9.3. Installation

1. Detach the mounting plate by turning it counter-clockwise from the back of EWF1 (see Fig. No. 93).
2. Secure the mounting plate to ceiling or wall with mounting screws. (see Fig. No. 93).
3. Lift to open the battery pocket door (see Fig. No. 93).
4. Insert the battery into the battery pocket considering the polarity terminals indicated on the enclosure of EWF1. Ensure the battery is securely connected. Red LED may flash briefly when the battery is being installed.
5. Close the battery pocket door by snapping it into place.
6. Position the smoke detector to the mounting plate by turning it clockwise to lock into place. Note that the device will not lock into the mounting plate without the battery being present in the battery pocket.
7. Push the TEST button to verify if the wireless smoke detector is operational. See **33.9.5.1. Testing EWF1**.
8. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
9. The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWF1 closer to alarm system device and bind it again.
10. EWF1 wireless smoke detector is ready for use.



**NOTE:** If you are unable to bind the wireless device, please restore the parameters of the wireless device to default and try again. See chapter **33.9.6. Restoring Default Parameters** for more details.

### 33.9.4. Interconnection

The interconnection feature automatically links all wireless smoke detectors resulting in causing an instant alarm in the system along with the rest of EWF1 wireless smoke detectors. For more details on interconnection feature and how to manage it, please refer to [20.4. EWF1 Interconnection](#).

### 33.9.5. Maintenance

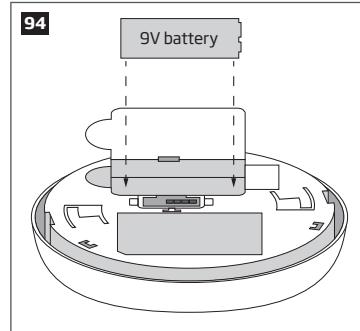
#### 33.9.5.1. Testing EWF1

- The TEST button verifies if EWF1 is operational. Firmly push the TEST button and the wireless smoke detector will sound a loud beep. The alarm will stop sounding after releasing the TEST button. When testing EWF1 using *ELDES Configuration Tool*/software, the detector will provide short beeps.
- Stand at arm's length from the wireless smoke detector when testing.
- Test wireless smoke detectors weekly and upon returning from vacation or when no one has been in the household for several days.
- Test each wireless smoke detector to be sure it is installed correctly and operating properly.
- DO NOT use an open flame to test this wireless smoke detector. You may ignite and damage the wireless smoke detector or your home.
- If the wireless smoke detector does not sound, please check the battery and signal level using *ELDES Configuration Tool* software.

**ATTENTION:** Test all wireless smoke detectors weekly to ensure proper operation.

#### 33.9.5.2. Battery Replacement

1. Turn EWF1 counter-clockwise to detach it from the mounting plate.
2. Gently pull down the wireless smoke detector.
3. Remove the old battery from the battery pocket.
4. Position the new 9V battery according to the appropriate battery slot positive/negative terminals indicated on the enclosure of EWF1. Ensure the plastic battery holder is fully depressed when the battery has been fitted.
5. Using the TEST button, test the wireless smoke detector to verify if it is operational. See [33.9.5.1. Testing EWF1](#).
6. Re-attach the wireless smoke detector to the mounting plate by turning the wireless smoke detector clockwise until it snaps into place.



**ATTENTION:** Only 9V 6F22 primary alkaline type battery can be used. Install only new, high quality and unexpired batteries.

**ATTENTION:** The battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

**NOTE:** The system sends an SMS message to the preset user phone number as soon as the battery level runs below 5%.

### 33.9.6. Restoring Default Parameters

1. Remove the battery from EWF1.
2. Press and hold the RESET button.
3. Insert the battery back to EWF1.

4. Hold the RESET button until you hear a short beep.

5. Release the RESET button.

On some EWF1 models the RESET button is not available. On such EWF1 devices the reset process is as follows:

1. Remove the battery from EWF1.

2. Wait for 1 minute or more.

3. Press and hold the TEST button.

4. Insert the battery back to EWF1.

5. Hold the TEST button for 10 seconds or more.

6. Release the TEST button.

**ATTENTION:** EWF1 built-in speaker will sound while pressing and holding the TEST button. Please, ignore the sound.

### 33.9.7. Cleaning

Clean the wireless smoke detector at least once a month to remove dust, dirt, or debris. Using the soft brush or wand attachment of a

vacuum cleaner, vacuum all sides and cover of wireless smoke detector. Be sure all the vents are free of debris.

If necessary, use a damp cloth to clean wireless smoke detector cover.

**NOTE:** Do not attempt to remove the cover to clean inside the wireless smoke detector. This will void your warranty.

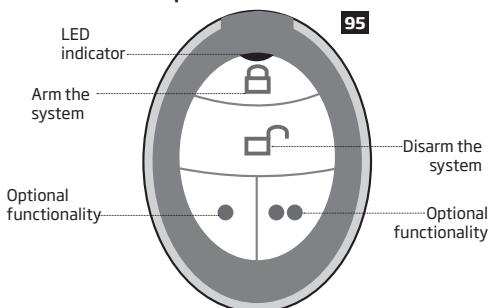
## 33.10. EWK2 - Wireless Keyfob

### Main EWK2 features:

- Alarm system arming & disarming;
- Panic button;
- PGM output control;
- Sound indication by built-in mini buzzer;
- Visual indication by built-in LED indicator.

EWK2 is a wireless device intended to remotely arm and disarm ELDES alarm system, cause system alarm or to control any electric appliance connected to the alarm system's PGM output. In order to start using wireless keyfob EWK2, it has to be bound to ELDES wireless alarm system using *ELDES Configuration Tool* software or sending a corresponding SMS command. EWK2 keyfob features four configurable buttons intended to operate according to individual needs. After the button is pressed, EWK2 internal buzzer's sound signal and red LED indicator confirms a transferred command to ELDES alarm system via wireless connection. The status of the sent command can be checked by attempting to receive the feedback signal from the alarm system. This can be performed by pressing down the same button again and holding it for 3 seconds. 3 short sound signals and LED indicator flashes indicate a successfully carried out command, while 1 long beep and LED indicator flash stands for failed command and feedback signal failure. By default, one pair of buttons is already configured to arm and disarm the alarm system. It is possible to connect up to 5 EWK2 devices to ELDES alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

### 33.10.1. Technical Specifications



**NOTE:** Figure reflects the default EWK2 button configuration. All keyfob buttons are configurable according to individual needs.

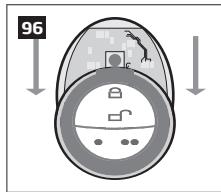
### 33.10.1.1. Electrical & Mechanical Characteristics

Battery Type	CR2032 Lithium
Battery Voltage; Capacity	3V; 240 mAh
Quantity of Batteries	1
Battery Operation Time	~18 months*
Wireless Transmitter-Receiver Frequency	868 Mhz (EU version) / 915 Mhz (US version)
Range of Operating Temperatures	-20...+55°C
Humidity	0-90% RH @ 0... +40 °C (non-condensing)
Dimensions	53 x 37 x 10 mm
Wireless Communication Range	Up to 30 meters in premises; up to 150 meters in open areas
Compatible with Alarm Systems	ELDES Wireless

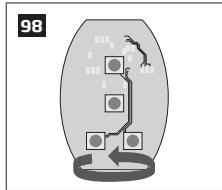
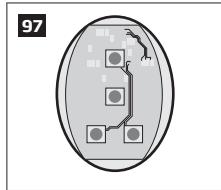
\* The operation time depends on different conditions and may vary.

### 33.10.2. Installation

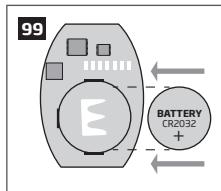
1. Open the EWK2 enclosure. Detach the front side of the enclosure by pulling the front side down



2. Once the enclosure is opened, remove the PCB from the EWK2 enclosure and flip the PCB so that the back side would be facing up.



3. Insert the CR2032 type battery provided in the EWK2 package. Before inserting the battery, ensure that it is positioned plus-marked side up.



4. Insert the PCB back to the enclosure and close it.
5. Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
6. While binding the device to the alarm system, press any EWK2 button several times.
7. EWK2 is ready for use.

**NOTE:** If you are unable to bind the wireless device, please, restore the parameters of the wireless device to default and try again. See chapter **33.10.5. Restoring Default Parameters** for more details.

### **33.10.3. EWK2 Zones (Panic Button)**

EWK2 keyfob supports a Panic Button feature allowing to cause alarm at any time when the specified button is pressed. This feature can be configured using *ELDES Configuration Tool* by creating a virtual zone of Panic/Silent or 24-Hour type and assigning it to Virtual Alarm option. The Panic Button feature can be set up on any button of EWK2.

### **33.10.4. Battery Replacement**

1. Open EWK2 enclosure.
2. Remove the old battery from the battery slot.
3. Position the new battery according to the appropriate battery slot positive terminal indicated.
4. Insert the battery into the battery slot.
5. Battery replaced.

See **33.10.2. Installation** for more details.

**ATTENTION:** Only CR2032 3V battery can be used. Install only new, high quality and unexpired batteries.

**ATTENTION:** The battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The system sends an SMS message to a preset User 1 as soon as the battery level runs below 5%.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

### **33.10.5. Restoring Default Parameters**

1. Press and hold  and  buttons simultaneously.
2. Hold the buttons pressed until LED indicator and the buzzer provide several short flashes and beeps simultaneously.
3. Release the buttons.
4. Parameters restored to default.

### 33.11. EWD2 - Wireless Door Contact/Shock Sensor

#### Main EWD2 features:

- Built-in shock sensor
- 2 wireless zones
- Available zone modes: magnetic door contact, shock sensor, water sensor, digital sensor
- 2 built-in tamper switches: on the front and on the back of the PCB

EWD2 is a wireless device intended to secure doors, windows or any other opening/closing mechanisms. In addition, the device comes equipped with a built-in shock sensor for vibration detection, an on-board zone terminal designed for external digital sensor or water sensor connection and 2 built-in tamper switches for EWD2 sabotage detection. In order to start using EWD2, it has to be bound to ELDES alarm system using *ELDES Configuration Tool* software or by sending a corresponding SMS text message to ELDES alarm system.

It is possible to connect up to 32 WD2 devices to ESIM364 alarm system. The maximum wireless connection range is 150 meters (in open areas).

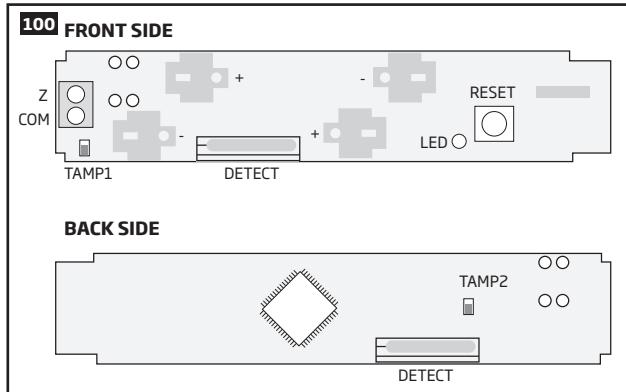
#### 33.11.1. Technical Specifications

##### 33.11.1.1. Electrical and Mechanical Characteristics

Batteries.....	1,5V Alkaline AAAA type, LR8 (IEC standard) / 25A (ANSI/NEDA standard)
Number of batteries .....	2
Battery operation time .....	~18 months*
Wireless transmitter-receiver frequency .....	868 Mhz (EU version) / 915 Mhz (US version)
Wireless communication range .....	Up to 30 meters in premises; up to 150 meters in open areas
Range of operating temperatures .....	-20...+55°C
Humidity .....	0-90% RH @ 0... +40 °C (non-condensing)
EWD2 dimensions .....	101 x 22 x 20 mm
Magnet dimensions.....	47 x 17 x 10 mm
Compatible with alarm systems .....	ELDES wireless

\* The operation time depends on different conditions and may vary.

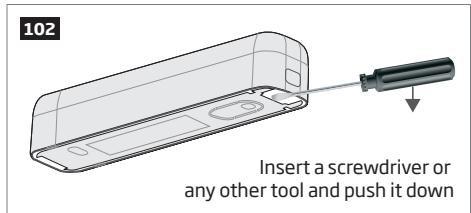
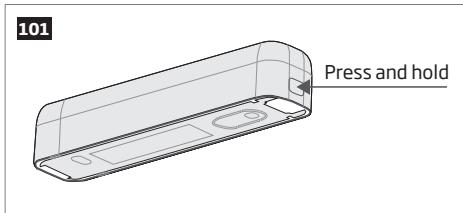
##### 33.11.1.2. Main Unit and LED Functionality



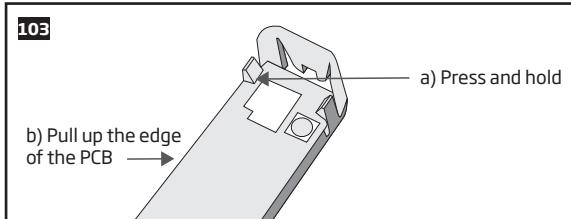
Unit	Description
Z	Zone terminal
COM	Common terminal
TAMP1	Tamper switch
+ / -	Battery slots
DETECT	Magnet detector
LED	Light-emitting diode for indication of parameter restoring to default
RESET	Button for restoring default parameters
TAMP2	Tamper switch

### 33.11.2. Installation

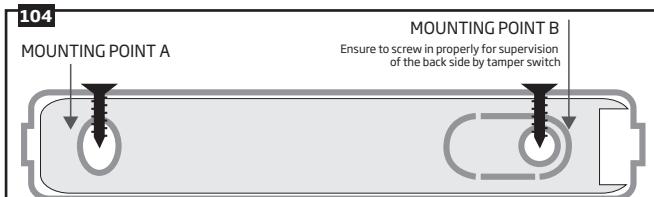
1. Remove the cover of EWD2 enclosure.



2. Remove the PCB (printed-circuit-board) from the enclosure.

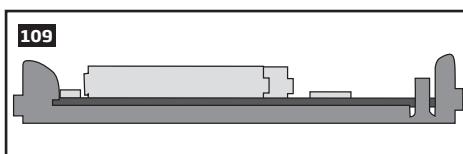
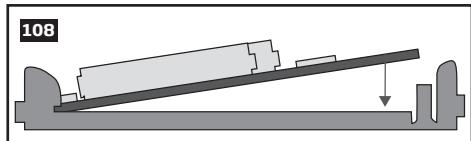
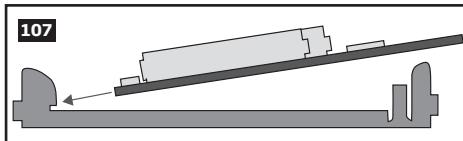


3. Screw in the enclosure to the door or window jamb.

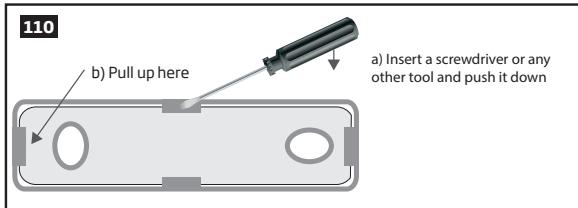


4. Wire up the external digital sensor (if any) or water sensor (if any) to Z and COM terminals, otherwise do not perform any wiring.

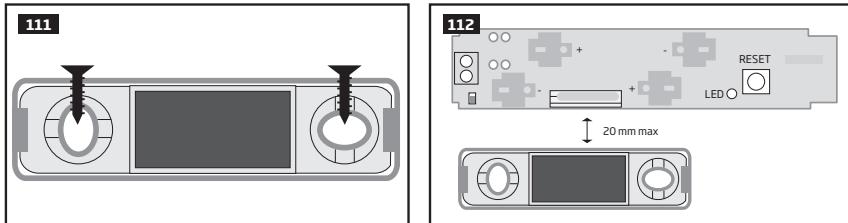
5. Insert the PCB back into the enclosure



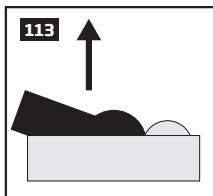
- Remove the cover of the magnet enclosure.



- Screw in the magnet to the door or window frame and ensure that the magnet is fixed at the same height as the EWD2 magnet detector.



- Cover the magnet. No tools are required for this action.
- Remove the plastic tab inserted between one of the battery terminals and battery slots of EWD2.



- Close EWD2 enclosure using the cover. No tools are required for this action.
- Bind the device to the alarm system by sending a corresponding command via SMS text message or using *ELDES Configuration Tool* software. Please, refer to the software's HELP section or refer to **19.1. Binding, Removing and Replacing Wireless Devices** for more details.
- The system automatically informs about successful/unsuccessful binding process. If attempt to bind is unsuccessful, try to move EWD2 closer to alarm system device and bind it again.
- EWD2 is ready for use.

**ATTENTION:** Ensure that EWD2 device is properly fixed to the wall and the Mounting Point B portrayed in Fig. No. 99 is properly screwed in. Otherwise, the tamper switch will NOT supervise the back side of EWD2 enclosure (see also **33.11.3. EWD2 Zones and Tampers**).

**NOTE:** If you are unable to bind the wireless device, please, restore the parameters of the wireless device to default and try again. See **33.11.5. Restoring Default Parameters** for more details.

### 33.11.3. EWD2 Zones and Tampers

Upon successful EWD2 magnetic door contact binding process, the system adds 2 wireless Instant zones. The wireless zones can be set up to operate under one of the following modes each:

- Zone 1:**

- Magnetic door contact** – Designed for causing an alarm (by default) if doors/windows are opened when the system is armed.
- External sensor** – Designed for causing an alarm (by default) if the wired digital sensor, connected to Z and COM terminals, is triggered when the system is armed. This mode does NOT operate with *Water sensor* mode on Zone 2 simultaneously.

- **Zone 2:**
  - **Shock sensor** - Designed for causing an alarm (by default) if the built-in shock sensor is triggered.
  - **Water sensor** - Designed for causing an alarm (by default) if a water sensor, connected to Z and COM terminals, is triggered. This mode does NOT operate with External sensor mode on Zone 1 simultaneously.

Possible zone mode combinations:

- **Zone 1:** Magnetic door contact + **Zone 2:** Shock sensor
- **Zone 1:** Magnetic door contact + **Zone 2:** Water sensor
- **Zone 1:** External Sensor + **Zone 2:** Shock sensor
- **Zone 1:** Magnetic door contact + **Zone2:** N/A
- **Zone 1:** External Sensor + **Zone2:** N/A
- **Zone 1:** N/A + **Zone 2:** Shock sensor
- **Zone 1:** N/A + **Zone 2:** Water sensor

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EWD2:

- **By tamper switch.** EWD2 comes equipped with 2 built-in tamper switches intended for enclosure supervision:
  - one located on the front side of the PCB supervising the front cover in case it is illegally opened (see Fig. No. 100).
  - the other one located on back of the PCB supervising the back side of the enclosure in case the EWD2 is illegally detached from the wall (see Fig. No. 100).
- Once the enclosure of EWD2 is tampered, the tamper switch will become triggered. This action will be followed by alarm, resulting in sending an SMS text message and/or phone call to the user. The SMS text message contains the violated tamper number.
- **By wireless connection loss.** The wireless connection loss between EWD2 and ESIM364 system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the violated tamper number and a star \* character indicating wireless connection loss as a tamper alarm cause.

**ATTENTION:** The tamper will not operate if both wireless zones are disabled.

For more details on EWD2 zone and tamper configuration, please refer to *ELDES Configuration Tool* software's HELP section.

### 33.11.4. Battery Replacement

1. Open EWD2 enclosure.
2. Remove both old batteries from the battery slots.
3. Insert the 2 new 1.5V Alkaline AAAA type batteries according to the appropriate battery slot positive/negative terminals indicated on the PCB of EWD2.
4. Batteries replaced.

See **33.11.2. Installation** for more details.

**ATTENTION:** Only 1.5V Alkaline AAAA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**ATTENTION:** The system sends an SMS message to a preset user phone number as soon as the battery level runs below 5%.

**ATTENTION:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

### 33.11.5. Restoring Default Parameters

1. Remove any battery from EWD2.
2. Press and hold the RESET button.
3. Insert the battery back to EWD2.
4. Hold the RESET button until LED indicator provides several short flashes.
5. Release the RESET button.
6. Parameters restored to default.

## 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

SMS text message content:

ssss\_RESET

Value: ssss - 4-digit SMS password.

Example: 1111\_RESET

## 35. EN 50131-1 GRADE 3

EN50131-1  
GRADE 3

ESIM364 system complies with EN 50131-1 Grade 3 security standard requirements and comes equipped with the following features:

- 6-digit SMS, administrator and user passwords.
- Prompt for SMS and administrator passwords when configuring the system using *ELDES Configuration Tool* software.
- Prompt for user and administrator passwords when configuring the system by EKB2, EKB3, EKB3W keypad.
- 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.

By default, the EN 50131-1 Grade 3 features are disabled. To enable/disable them, please refer to the following configuration methods:

Set 6-digit format for SMS,  
administrator and user passwords

Config  
Tool

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

Set 4-digit format for SMS,  
administrator and user passwords

Config  
Tool

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

Prompt for SMS and administrator passwords when  
configuring the system using *ELDES Configuration  
Tool* software.

Config  
Tool

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

Prompt for administrator password when  
configuring the system using *ELDES Configuration  
Tool* software.

Config  
Tool

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

Prompt for user and administrator passwords  
when configuring the system by EKB2, EKB3, EKB3W  
keypad.

Config  
Tool

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

Prompt for administrator password when  
configuring the system by EKB2, EKB3, EKB3W  
keypad.

Config  
Tool

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

Deny system arming if any system fault exists

Config  
Tool

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

Permit system arming if any system fault (except -  
tamper violation) exists.

Config  
Tool

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

## 36. SMART SECURITY

The system comes equipped with a Smart Security feature providing a user-friendly graphical interface intended for system status monitoring and control. The graphical interface can be accessed via web browser or a smart-phone application developed for Android and iOS-based (iPhone, iPad) devices. Smart Security feature easily allows to do the following:

- Arm/disarm the system.
- Control PGM outputs.
- View system faults and alarms.
- Monitor GSM signal strength, back-up battery level and temperature.

Manage Smart  
Security parameters

Config  
Tool

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

### 1. Before running Smart Security on ESIM364, ensure that::

- SIM card is inserted into SIM CARD1 slot of ESIM364 device (see **2.2. Main Unit, LED & 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. PASSWORDS**).
- 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**).

### 2. Creating a Smart Security account

- Type in the following address in your web browser: <http://security.eldes.it>
- Press **Register**
- In the next window fill in username, password, email address, your personal details, verification code and press **Register** button.
- Now open your email inbox and look for a new email message received from ELDES. The email message will contain an account activation link. Please, click on the link to confirm your account registration.

**Login** 115

Please fill out the following form with your login credentials:

Fields with \* are required

username or email \*

password \*

[Register](#) | [Lost Password?](#)

### 3. Adding the device to Smart Security account

There is no device yet, please create one 116

**Create Device**

Fields with \* are required.

Name \*

Smart Security ID

Device Model \*

- Return to <http://security.eldes.it> and enter the login details.
- After successful login process you will be requested to fill in your device details in **Create Device** window. In this window, please, fill in the following details:
  - **Name** - name of your device displayed in the main screen view of SMART SECURITY.
  - **Smart Security ID** - a unique multi-character security code provided with every ESIM364 unit.

## Request Smart Security ID

### SMS

#### SMS text message content:

ssss\_SMART\_ID

Value: ssss - 4-digit SMS password.

Example: 1111\_SMART\_ID

### Config Tool

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

- **Device Model** -select *esim364* from the list.
- After filling in the device details, press **Create** button.

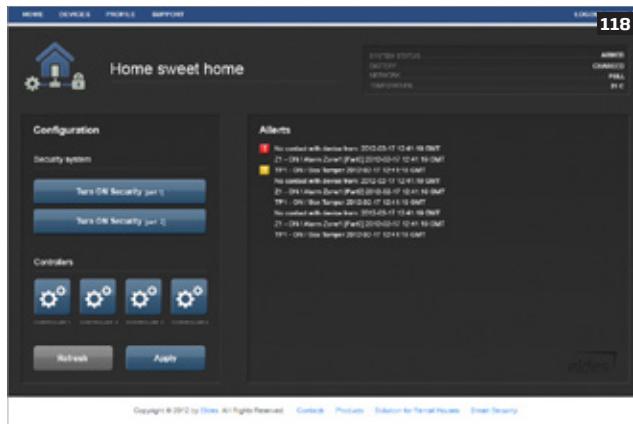
## 4. Controlling the System Unit via Smart Security

- After adding the device to the account time you will be brought to the next window **Devices**. In addition, a 6-month trial License Key will be granted for your each device added for the first time to your account. In this window you can view the following information on your ESIM364 device:

- **Online/Offline** - device connection status.
- „**Test Device**“ - custom device name provided by you.
- **ID** - internal sequence number of the server.
- **Imei** - unique hardcoded GSM modem number of your ESIM364 device.
- **License Key** - a special key number provided after its purchase. This key allows to continue using SMART SECURITY.
- **Edit** button - press to view and edit your device details
- **Delete** button - press to remove your device from SMART SECURITY account.



- Press **Control** button to start controlling your security system and electrical appliances. In the next window you can arm/disarm the alarm system, view battery, network, temperature status, alarm reports and control electrical appliances.



## 5. Obtaining a new License Key

- When the period of your 6-month trial License Key is over, you will have to purchase a new key via **PayPal**. Press **PayPal Extend License** located in the Devices in Use section of **Devices** window.
- In the next window follow the instructions of the PayPal system to complete the purchasing procedure.
- After the purchase is complete, the License Key validity extends automatically for a specified device.

Your order summary	
Descriptions	Amount
Licence Key Extend for 1 month(s)	€10.00
Item number: SGLH0001	
Item price: €10.00	
Quantity: 1	
<b>Item total</b>	<b>€10.00</b>
Total €10.00 EUR	

## 37. TECHNICAL SUPPORT

### 37.1. Troubleshooting

Indication	Possible reason
Indicator STAT is off	<ul style="list-style-type: none"><li>• No main power supply</li><li>• Wiring done improperly</li><li>• Blown fuse</li></ul>
Indicator NETW is off or flashing	<ul style="list-style-type: none"><li>• Missing SIM card</li><li>• PIN code is enabled</li><li>• SIM card is inactive</li><li>• Disconnected antenna</li><li>• GSM network signal too weak</li><li>• Problems with GSM provider</li><li>• Microcontroller is not started due to electrical mains noise or static discharge</li></ul>
System does not send any SMS text messages and/or does not ring	<ul style="list-style-type: none"><li>• SIM card credit balance depleted</li><li>• Incorrect SMS centre phone number</li><li>• No GSM network signal</li><li>• User number is not added (or control from another phone number is disabled)</li><li>• SIM card changed before disconnecting main power supply or backup battery</li></ul>
Received SMS text message "Wrong syntax"	<ul style="list-style-type: none"><li>• Incorrect SMS text message structure</li><li>• Extra space symbol could be left in SMS text message</li></ul>
Missing temperature indication in Info SMS text message/EKB2 keypad	<ul style="list-style-type: none"><li>• Temperature sensor not connected</li><li>• Temperature sensor broken</li><li>• Connection wires too long</li></ul>
24Hand/or Fire zones do not work	<ul style="list-style-type: none"><li>• Specified zone must be enabled by SMS, <i>ELDES Configuration Tool</i>, EKB2, EKB3 or EKB3W</li></ul>
No sound during remote listening	<ul style="list-style-type: none"><li>• Microphone not connected</li><li>• Improper microphone connection</li></ul>

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](http://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 send any data to monitoring station while updating the firmware remotely via GPRS network. However, during the firmware update process, the data messages are queued up and 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 & 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. PASSWORDS**).
- 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**).

#### 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:

`XXXX_FOTA.ftp-server-ip,port,firmware-file-name.bin,user-name,password`

**Value:** `ssss` - 4-digit SMS password; `ftp-server-ip` - 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:** Comma character is NOT allowed to use in user name 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: support@eldes.lt

**NOTE:** It is strongly recommended to restore default parameters after the firmware update.

### 37.5. Frequently Asked Questions

Question	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, although I was able to perform disarming. 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 <b>14.5. Zone Type Definitions</b> and <b>14.7. Bypassing and Activating Zones</b> .
3. I have activated ATZ mode in <i>ELDES Configuration Tool</i> software, but I am unable to set the connection Type 5. Whenever I select Type 5 and press the "Write Settings" button it switches back to Type 4. What's wrong?	It appears that your <i>ELDES Configuration Tool</i> software is outdated. Please, download the latest <i>ELDES Configuration Tool</i> software version by visiting <a href="http://www.eldes.lt/en/download">www.eldes.lt/en/download</a> .
4. 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.
5. 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 <i>ELDES Configuration Tool</i> software. Please, refer to <b>18.4. Turning PGM Outputs On and Off</b> .
6. 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.
7. 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 <b>16. TAMPERS</b> or to the software's HELP section. However, due to security reasons it is not recommended to disable this feature.

Question	Answer
8. Is any additional configuration necessary when connecting EPGM1 module after wiring is done according to EPGM1 user manual?	No additional configuration is required in order to make EPGM1 module operational.
9. 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.
10. 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.
11. 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 <a href="http://www.eldes.it/en/download">www.eldes.it/en/download</a> and downloading the latest version.
12. 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.
13. 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: <ol style="list-style-type: none"> <li>1. ELDES wireless device is installed too close or too far from ESIM364 system.</li> <li>2. Interference of other electronic equipment.</li> <li>3. Physical interference (building walls, floors etc.)</li> <li>4. Metal material interference.</li> </ol>
14. 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 <b>2.3.2 Zone Connection Types</b> for more details.
15. 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 <b>21. BACKUP BATTERY, MAINS POWER SUPPLY STATUS MONITORING AND MEMORY</b> .
16. 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 preset users simultaneously, but does not require any SMS delivery report.
17. 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.
18. The configuration of added wireless keyfob EWK1 to ESIM364 system is not visible in <i>ELDES Configuration Tool</i> . What's wrong?	<i>ELDES Configuration Tool</i> /version is too old. Please, update it.
19. I 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.
20. 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.
21. I receive an error message when attempting to configure the device or update the firmware remotely. What's 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 firmware .bin file (must be located in the FTP server folder titled <b>Firmware</b> ) 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.
22. 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 <code>ssss_endconfig</code> SMS text message. 2. In <i>ELDES Configuration Tool</i> software press Disconnect button and repeat the steps from the beginning as described in <b>5.1. Remote System Configuration via GPRS Connection</b> .

## 38. RELATED PRODUCTS



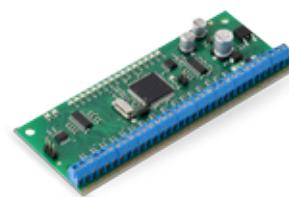
EKB2 - LCD keypad



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



EWP1 - wireless PIR sensor (motion detector)



EWD1 - wireless magnetic door contact



EWS2 - wireless external siren



EWS1 - wireless internal siren



EWK1 - wireless keyfob



EWF1 - wireless smoke detector



EW1 - wireless zone and PGM output expansion module



EW1B - battery-powered wireless zone and  
PGM output expansion module



EKB3W - wireless LED keypad



EWK2 - wireless keyfob



EWD2 - wireless door contact/shock sensor



Made in the European Union  
[www.eldes.lt](http://www.eldes.lt)