eldes

Keyboard
EKB1

User Manual v1.0

The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see right) or its documentation indicates that the product must not be disposed of together with household waste.

Safety Information

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

- Don't expose the system to high humidity, chemical environment or mechanical impact.
- Don't attempt to personally repair the system.

! Any system repairs must be done only by qualified, safety aware personnel.

! The system must be powered by GSM system ESIM262 AUX output +13,8V.

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

Manufacturer Warranty

The system carries a 24-month warranty by the manufacturer "ELDES UAB".

Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt with purchase date must be kept as a proof. The warranty is voided if the system has been exposed to mechanical impacts, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.

Hereby, ELDES UAB declares that this GSM ALARM AND CONTROL SYSTEM ESIM051 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at www.eldes.lt/ce.

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Package Content:

1. Keyboard EKB1 .... 1pcs
2. Keyboard EKB1 holder 1pcs
3. EKB1 user manual 1pcs

About User Manual. Quick Start.

This document describes keyboard EKB1 and its connection to security and alarm system ESIM262. It is very important to read User Manual before start using the system.

Content

1. General Information

1.1 Function

EKB1 is a microcontroller based device intended to use with security and control system ESIM262. Its function is turning on or off the alarm, entering data and show ESIM262 information on LED indicators.

1.2 Operation Description

Using the keyboard EKB1 the alarm is turned on or off entering the correct keyboard user code. Factory default keyboard password is 1111. It is recommended changing it.
When the code is entered the system begins counting the time dedicated to leaving the premises. The user is notified about the time countdown by a sound signaller integrated in the keyboard. When the time is up a green LED lights and the alarm system switches to security mode. To turn the alarm system off the user must enter user password again. The user will be notified about a successful alarm turnoff by a sound signaller – it will beep several times. Also, the green LED will fade off.
The user is notified about the turned night mode STAY by a yellow LED. To turn on STAY mode it is necessary to configure the system accordingly using the program ESIM262 ConfigTool.
If the user does not open the door or, in other words, Z1 is not triggered after entering the code, the alarm will turn to STAY mode when only the marked zones are secured. The user is notified about this by the yellow LED. STAY mode is useful when only particular zones are secured, e. g., when the owner of the house is at home. For instance, only house perimeter – only doors and windows – are secured, and the system does not react to the motion sensors inside the premises.
Red LED indicator shows that several zones have BYPASS mode turned on, i. e., a particular zone is switched off. This is useful if a specific sensor breaks down while the cause of the breakdown is being troubleshot. The keyboard can indicate the security zone triggered at that time. E. g., if the number "five" is blinking, zone No. 5 has been triggered.
The user can configure the system using the keyboard if he/she knows administrator password. The keys ESC and ENTER are always lit up. Pressing any button will result in all keys illuminating for 30 seconds.

1.3 Technical Specifications

Electrical and Mechanical Characteristics

Supply voltage	13.8 VDC from ESIM262 AUX output
Current used	not more than 150 mA when all LEDs are in operation
Maximum keyboard connection cable length	100 m
Dimensions	140 x 100 x 18 mm
Operating temperature range	-0…+55 oC

1.4 Connector and LED Indicator Functionality

Fig. No. 1

LEDs

STAY	STAY (perimeter security) state indicator
ARMED	ARMED (armed security) status indicator
BYPASS	BYPASS (temporary zone disconnection) status indicator

Connector Functionality

+12V	Positive supply pin +12-14 VDC connected to the main unit AUX
DATA	Data pin connected to the main unit DATA
GND	Negative supply pin connected to the main unit GND (COM)

1.5 Keyboard installation and configuration

1. Fix the keyboard holder to the wall.
2. Disconnect security system ESIM262 power supply and backup battery before connecting wires.
3. Connect keyboard connectors to ESIM262. Accordingly, +12 V must be connected to AUX, DATA – to DATA, GND – to GND.
4. Infix the keyboard into the holder.
5. Turn on ESIM262 power supply.

Note
If DALLAS key reader and/or temperature sensor are connected to ESIM262, DATA connector used is the same. I. e., all components containing DATA output must be connected in parallel.

ESC and ENT must be constantly lit.

If not all security zones are used, it is necessary to use resistors with the unused zones. Otherwise a red BYPASS indicator will light up, even if a particular zone is turned off by SMS message or using configuration tool.

BYPASS – temporary zone disconnection

To turn on BYPASS mode for any zone, press the buttons in the following sequence:
 ESC Zone_NO ENT

E. g., to disconnect zone 5 press ESC 5 ENT.

Red LED indicator will light up immediately. To turn off BYPASS mode enter analogous command sequence ESC 5 ENT. The indicator will switch off.

Turning on BYPASS mode using the keyboard is analogous to the command sent by SMS message: XXXX_Z(1-6):OFF.

Service mode

Factory default parameters are the following: user PIN code 1111. Service mode code 1470.

The user will be notified about the service mode actuation by a blinking red LED indicator.

It is most convenient changing all settings using "ESIM262 Configuration TOOL".

To change the settings using the keyboard the user must first turn on service mode and after making the changes exit the mode. The user will be informed about every successful command by a sound signal beeping several times. In the case of failure or error it will beep once.

Description	Command								Possible values	Starting with ESIM262 version
Entering service mode.	ESC	1	4	7	0	ENT			1470 default PIN	5.25
Entering premises delay time.		0	1	X	X	ENT			XX=[0-99]s	5.25
User PIN code change.		0	2	X	X	X	X	ENT	XXXX={0...9}	5.26
Service mode PIN code change.		0	3	X	X	X	X	ENT	XXXX={0...9}	5.26

It is necessary exiting service mode after making configuration!

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