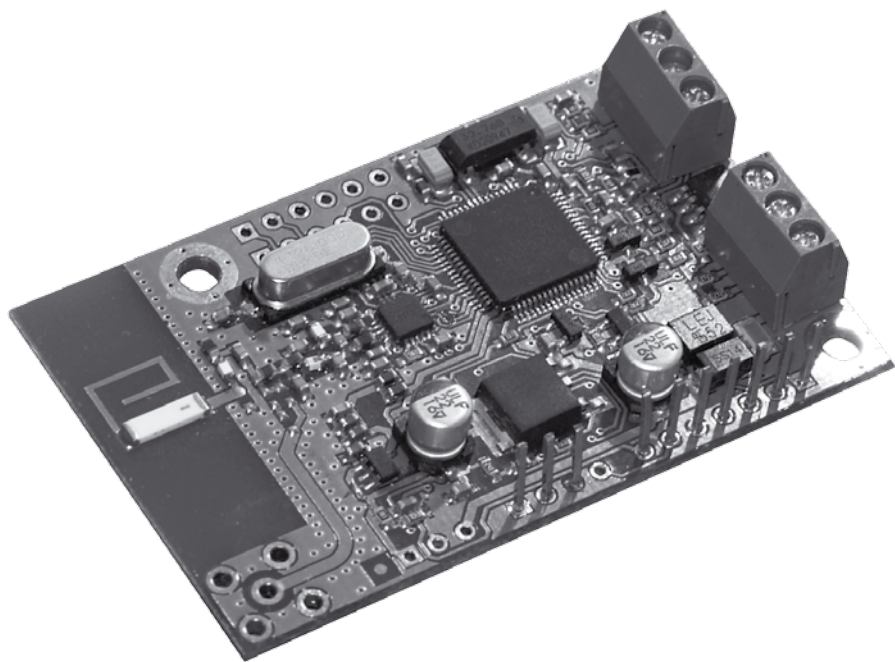


eldes



WIRELESS ZONE & PGM OUTPUT EXPANSION MODULE
BELAIDIS ZONŲ IR PGM IŠĖJIMŲ IŠPLĒTIMO MODULIS

EW1B

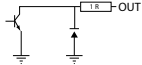
Wireless expansion module EW1B is a wireless device with 2 zones and 2 PGM outputs. This expansion module connects to ELDES wireless alarm systems and enables wireless access for to 2 wired devices such as movement PIR sensors, magnetic door contacts etc. In addition it allows to connect and control 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 message or using software *ELDES Configuration Tool*. It is possible to connect up to 16 EW1B devices to ELDES alarm system at a time. The maximum wireless connection range is 150 meters (in open areas).

1. Package Content

1. EW1B.....qty. 1
2. EW1B User Manual.....qty. 1
3. 1,5V Alkaline AA Type Battery.....qty. 3

2. Technical Specifications

2.1 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	 Open Collector Output. Output is pulled to COM when turned ON.
Maximum Commuting PGM Output Values	Voltage – 30V; current 500mA
Wireless Transmitter-Receiver Frequency	868 MHz
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
Enclosure rating	IP65

* This operation time might vary in difference conditions.

2.2 Connector & LED Functionality

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

3. Installation

1. Unscrew EW1B enclosure (see Fig. No. 3)

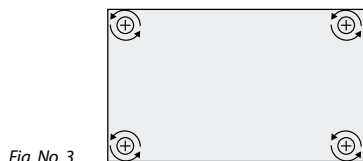


Fig. No. 3

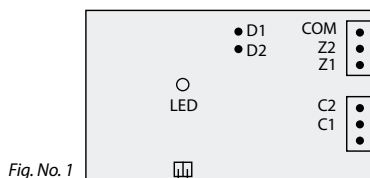


Fig. No. 1

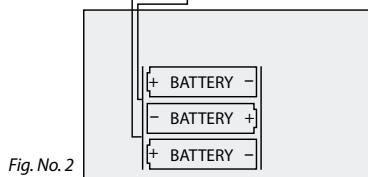


Fig. No. 2

2. Detach the front side of the enclosure by pulling the front side up (see Fig. No. 4)

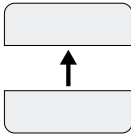


Fig. No. 4

4. Remove the plastic tab inserted between one of the battery terminals and battery slot contacts (see Fig. No. 5).

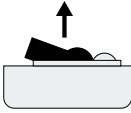


Fig. No. 5

5. Connect the circuit as indicated in Fig. No. 6.

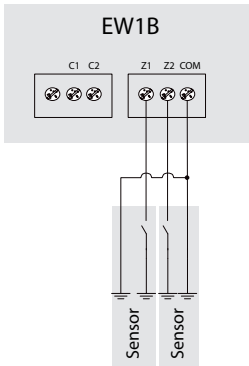


Fig. No. 6

6. Close EW1B enclosure (see Fig. No. 4, Fig. No. 3)
7. Bind the device to the alarm system using *ELDES Configuration Tool* software. Open **Wireless Devices** section and enter a 8-digit wireless device ID located on the EW1B enclosure and press **Add** button (see Fig. No. 7). The device can also be bind by sending a corresponding command via SMS message. For more details, please, refer to the software's HELP section and ELDES alarm system installation manual.

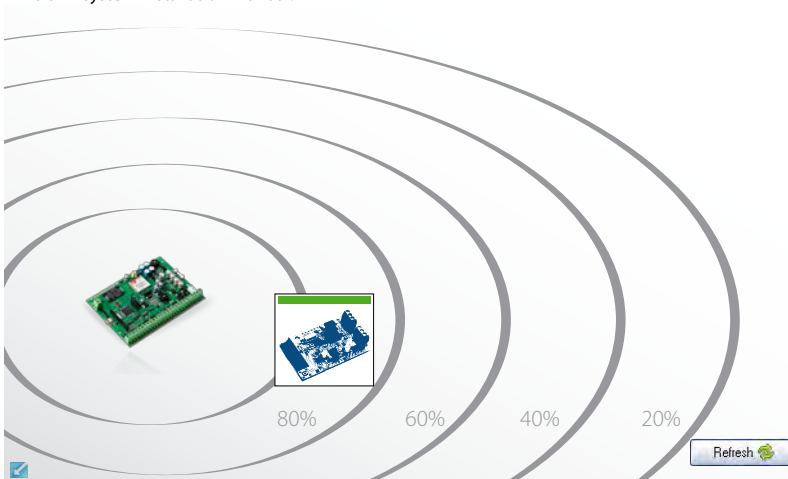


Fig. No. 7

ELDES Configuration Tool software is freeware and can be downloaded by visiting www.eldes.it

- Upon the successful binding process of EW1B **Battery Level** and **Signal Level** become visible in *ELDES Configuration Tool* software under **Wireless Devices** section. If attempt to bind is unsuccessful, try to move EW1B closer to the alarm system device and bind anew.
- 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 chapter **6. Restoring Default Parameters** for more details.

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

4. 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 ELDES 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 message and phone call to the user (-s) by default. The SMS message contains the violated tamper number and a star ` ` character indicating wireless connection loss as a tamper alarm cause.

5. Battery Replacement

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

For more details, please, refer to chapter **3. Installation**.

6. Restoring Default Parameters

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

7. Additional Information

Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against such events. "ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system.

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

Manufacturer Warranty

This device carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date. The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.

Safety instructions

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

- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.

Any additional devices linked to EW1B (electrical appliances, relays etc.) must be approved by LST EN 60950-1 standard.



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed of in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

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