



EWD2 WIRELESS MAGNETIC DOOR CONTACT/ SHOCK SENSOR/FLOOD SENSOR

User manual v1.7

Compatible with:

- ESIM264 v7.14.03 and up + EWT1 v16.18 and up.
- ESIM364 v02.06.05 and up.
- EPIR2 v01.01.12 and up.
- EPIR3 v01.00.02 and up

Main features:

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

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

ESIM264, EPIR2 and EPIR3 alarm systems support up to 16 EWD2 devices, while ESIM364 - up to 32 EWD2 devices. The maximum wireless connection range is 150m (492.13ft) (in open areas).

NOTE: For complete information on device operation with ELDES alarm system, please refer to ELDES alarm system installation manual located at www.eldes.lt/download

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Item	Quantity
1. EWD2	.1
2. Magnet	.1
3. 1,5V Alkaline AAAA type batteries	.2
4. Screws	.4
5. User manual	.1
6. Double-sided adhesive tape	.2

2. TECHNICAL SPECIFICATIONS

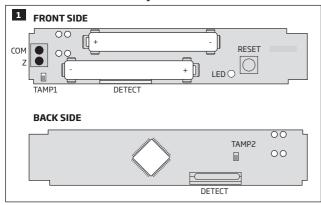
2.1. Electrical and Mechanical Characteristics

Batteries	1,5V Alkaline AAAA type, LR8D425 (IEC) / 25A (ANSI/NEDA)
Number of batteries	2
Battery operation time	~18 months*
Wireless band	ISM868/ISM915
Wireless communication range	Up to 30m (98.43ft) in premises; up to 150m (492.13ft) in open areas
Range of operating temperatures	20+55 °C (-4 +131°F)
Humidity	0-90% RH @ 0 +40°C (0-90% RH @ +32 +104°F) (non-condensing)
EWD2 dimensions	102x22x19mm (4.01x0.87x0.75in)
Magnet dimensions	47x17x10mm (1.85x0.67x0.39in)
Compatible with alarm systems	ELDES wireless

^{*} The operation time might vary in different conditions.

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2.2 Main Unit and LED Functionality

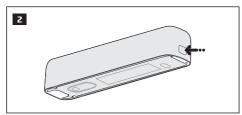


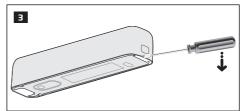
Unit	Description
COM	Common terminal
Z	Zone terminal
TAMP1	Tamper switch
+/-	Battery slots
DETECT	Reed switch
LED	Light-emitting diode for indication of parameter restoring to default
RESET	Button for restoring default parameters
TAMP2	Tamper switch

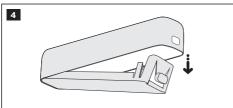
3. INSTALLATION

NOTE: Before installing the wireless device, we highly recommend to refer to RADIO SYSTEM INSTALLATION AND SIGNAL PENETRATION manual located at www.eldes.lt/download

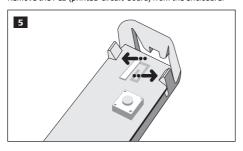
1. Remove the cover of EWD2 enclosure.

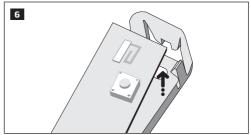




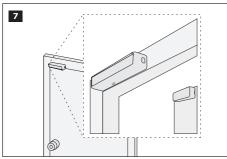


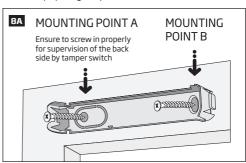
2. Remove the PCB (printed-circuit-board) from the enclosure.

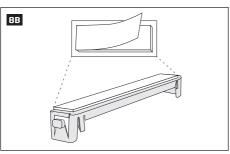




3. Screw in (see fig. #8A) or attach the enclosure using double-sided adhesive tape (see fig. #8B) to the door or window frame.







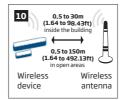
ATTENTION: When using this mounting method (fig. #8B), the back side of the enclosure will NOT be supervised by tamper switch.

4. When installing EWD2, follow the recommendations for the installation to achieve the strongest wireless signal:



Never install in the following locations:

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

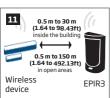


Recommended:

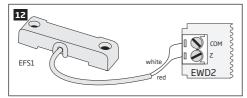
- face the front side of the wireless device towards the antenna.
- keep the distance: 0,5 to 30m (1.64 to 98.43ft) inside the building, 0,5 to 150m (1.64 to 492.13ft) in open areas

Recommended:

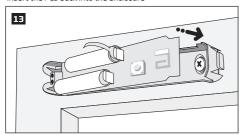
- face the front side of the wireless device towards the front side of EPIR3
- keep the distance: 0,5 to 30m (1.64 to 98.43ft) inside the building, 0,5 to 150m (1.64 to 492.13ft) in open areas



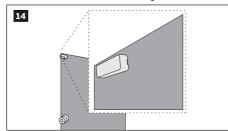
5. Wire up the external digital sensor (if any) or flood sensor (if any) to Z and COM terminals, otherwise do not perform any wiring. If flood sensor EFS1, which is compatible with EWD2, is to be wired, please refer to the following wiring diagram and configure EWD2 using ELDES Configuration Tool software (see 4. EWD2 ZONES AND TAMPERS).

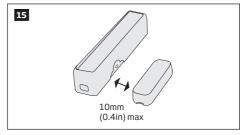


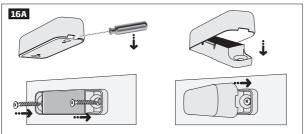
6. Insert the PCB back into the enclosure

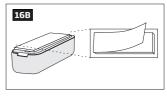


Open the magnet enclosure and screw in (see fig.#16A) or attach the magnet using double-sided adhesive tape (see fig.#16B) to the doors or window and ensure that the magnet is fixed at the same height as the EWD2 reed switch.

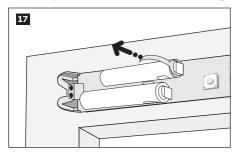




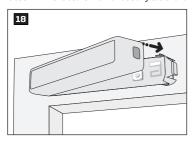




8. Remove the plastic tab inserted between one of the battery terminals and battery slots of EWD2.



9. Close EWD2 enclosure. DO NOT use any tools for this action.



ATTENTION: DO NOT attempt to close EWD2 enclosure the other way round, otherwise you might break it.

10. Pair the device with the alarm system using ELDES Configuration Tool software. Open Wireless Device Management section and enter a 8-digit wireless device ID located on the EWD2 enclosure and press Add button. The device can also be paired by sending a corresponding command via SMS text message. For more details, please, refer to the software's HELP section and ELDES alarm system installation manual.



- 11. Upon the successful pairing process, the message indicated next to EWD2 device icon will turn to **CONNECTED**. If the attempt to pair is unsuccessful, try to move EWD2 closer to the ELDES alarm system and pair anew.
- 12. EWD2 is ready for use.

ATTENTION: Ensure that EWD2 device is properly fixed to the wall and the Mounting Point B portrayed in fig. #8A is properly screwed in. Otherwise, the tamper switch will NOT supervise the back side of EWD2 enclosure (see also 4. EWD2 ZONES AND TAMPERS).

NOTE: If you are unable to pair the wireless device, please restore the parameters of the wireless device to default and try again (see chapter 7. RESTORING DEFAULT PARAMETERS).

4. EWD2 ZONES AND TAMPERS

Upon successful EWD2 device pairing process, the system adds 2 wireless Instant-type 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 triqgered when the system is armed. This mode does NOT operate with *Flood 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.
- **Flood sensor** Designed for causing an alarm (by default) if a flood sensor EFS1, connected to Z and COM terminals, is triggered. This mode does NOT operate with External sensor mode on Zone 1 simultaneously.
- 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.

Possible zone mode combinations:

- Zone 1: Magnetic door contact + Zone 2: Shock sensor
- Zone 1: Magnetic door contact + Zone 2: Flood sensor
- Zone 1: Magnetic door contact + Zone 2: External 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: Flood sensor
- * this zone mode combination is valid for ESIM364 firmware version v02.13.00 and up; EPIR3 firmware version v02.02.00 and up.

NOTE: Flood sensor mode is not supported when EWD2 is used with ESIM264 alarm system.

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. #1).
 - 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. #1).

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 name.

By wireless connection loss. The wireless connection loss between EWD2 and ELDES 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 wireless device model, wireless ID code and tamper name. The user will also be notified by SMS text message as
soon as the wireless signal is restored.

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.

5. TEMPERATURE SENSOR

The device comes equipped with a built-in temperature sensor allowing to monitor the temperature of the area surrounding EWD2 device. When using the with EPIR3 alarm system, you may set the MIN and MAX temperature thresholds ranging from -20°C to +55°C resulting in SMS text message delivery to the listed user phone number once exceeded. The accuracy of temperature measurement is +/-1°C.

6. BATTERY REPLACEMENT

- 1. Open EWD2 enclosure.
- 2. Remove both old batteries from the battery slots.
- 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 3. 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 text message to the listed 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.

7. 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.

8. ADDITIONAL INFORMATION

Technical support

If you experience difficulty during the installation or subsequent use of a ELDES UAB system, you may contact ELDES UAB distributor or dealer in your country/region

Warranty procedures

To obtain warranty service, you may return a defective system to your original point of purchase, or the authorized ELDES UAB dealer or distributor from whom you purchased the ELDES product.

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 islability 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

ELDES UAB warrants this system only to the original purchaser and only in case of defective workmanship and materials under normal use of the system for a period of twenty four (24) months from the date of shipment by the ELDES UAB. Warranty obligations do not cover expandable materials (components, which require periodic replacement with the operation of system - power elements (batteries)), holders and enclosures. The warranty remains valid only if the system is used as intended, following all guidelines outlined in this manual and in accordance with the operating conditions specified. The warranty is void if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environments or force majeure factors.

SAFETY INSTRUCTIONS

Please read and follow these safety guidelines to safeguard yourself and others:

- DO NOT use the system where it can interfere with other devices such as medical devices
- DO NOT use the system in hazardous environments
- DO NOT expose the system to high humidity, chemical environments or mechanical impact
- · DO NOT attempt to repair the system yourself any repairs must be carried out by fully qualified personnel only



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed on in an approved and environmentally safe recycling process. For further information 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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