

The logo for 'eldes' is displayed in a white, lowercase, italicized sans-serif font. It is positioned on a dark blue rectangular background that has a white, stylized graphic element resembling a signal or a stylized 'E' shape above the text.

EW2

WIRELESS ZONE AND PGM
OUTPUT EXPANSION MODULE

USER GUIDE v1.1

EN

PT

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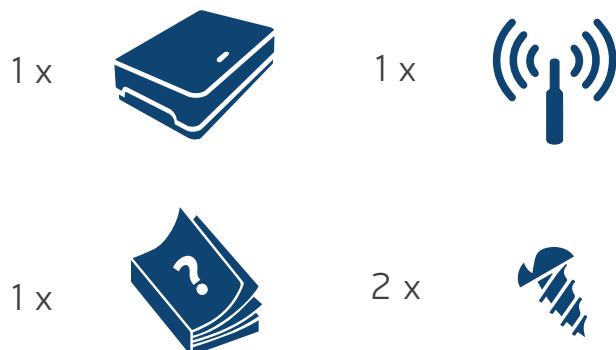
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Contents of Pack



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EN

INSTALLATION

PT

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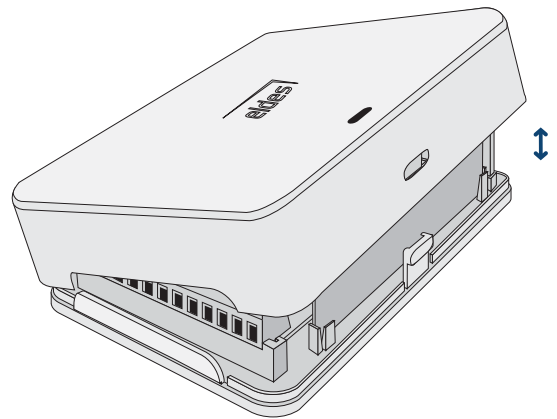
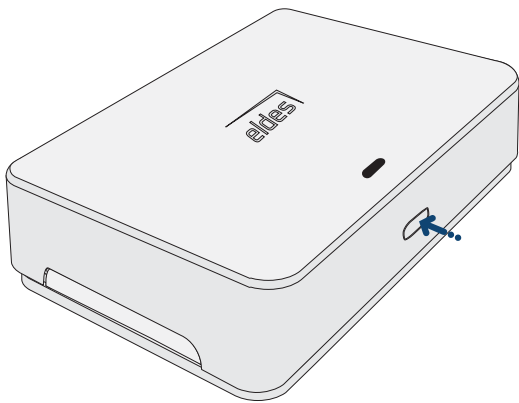
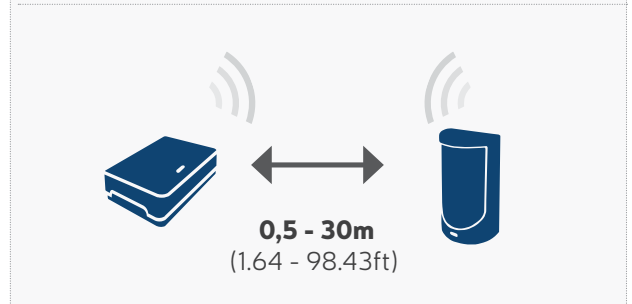
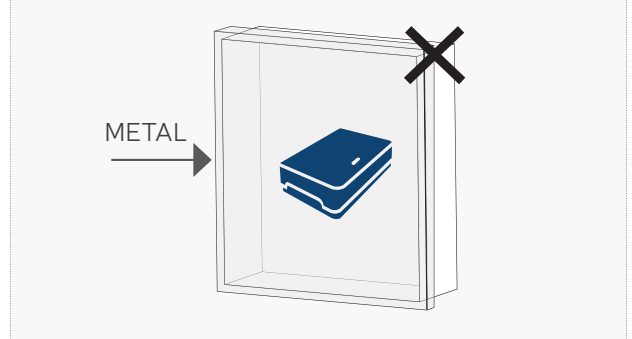
INSTALLATION

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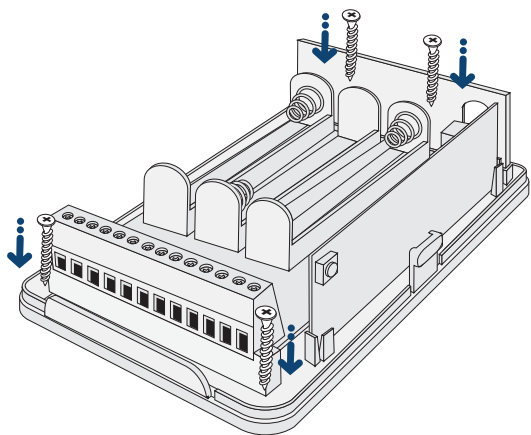
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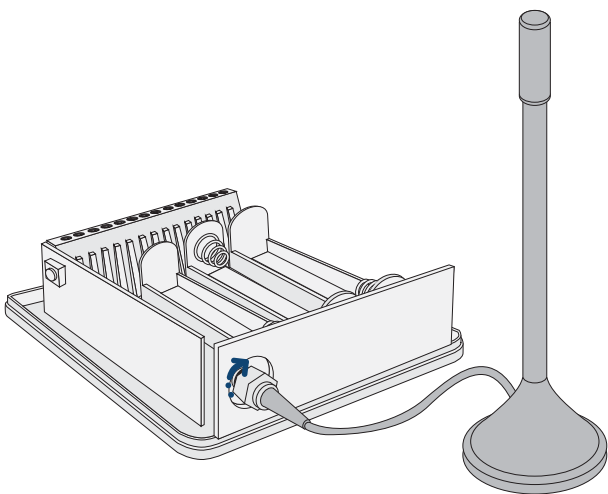
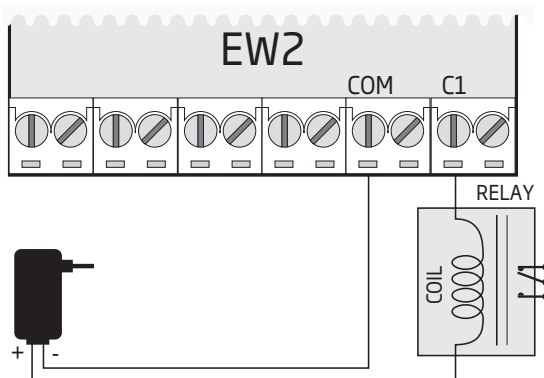
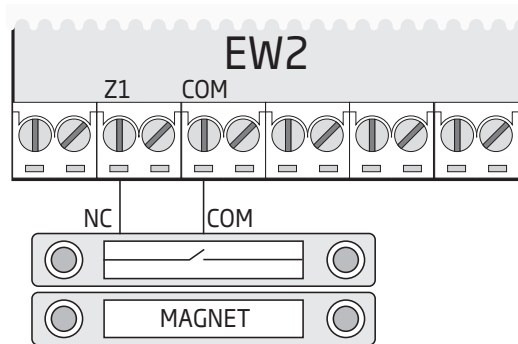


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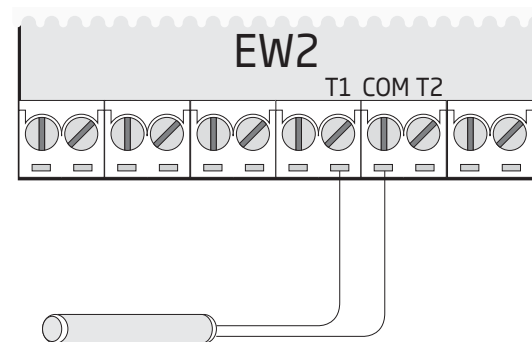


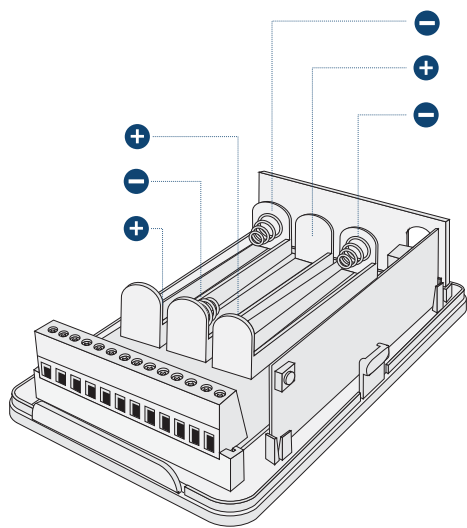
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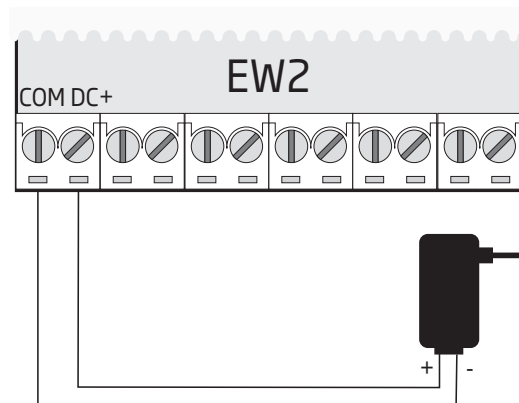
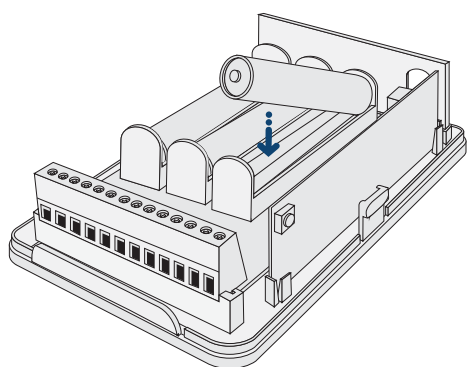
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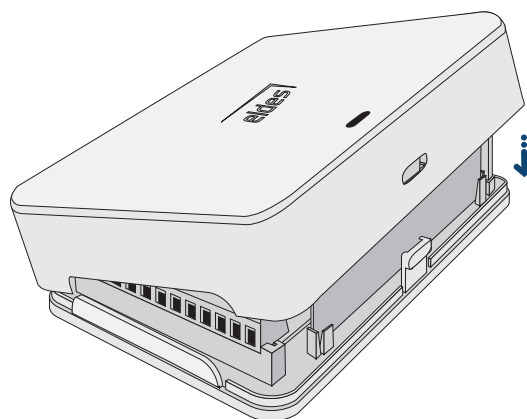




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6B



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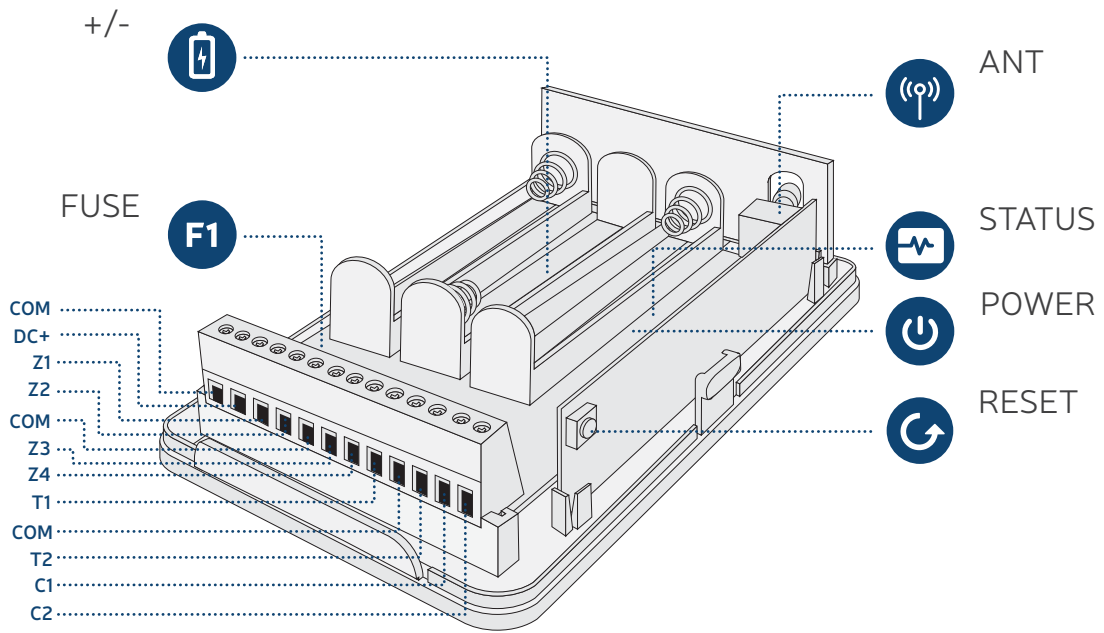
1. GENERAL OPERATIONAL DESCRIPTION

MAIN FEATURES:

- 4 zone terminals.
- 2 open-collector outputs.
- 2 10k Ω NTC/PT1000 temperature sensor inputs.
- Battery or externally-powered.
- Compatible with any third-party wired sensor or siren.

EW2 is a wireless device intended to expand ELDES alarm system capabilities by providing wireless connection access to any third-party wired devices. EW2 comes equipped with 4 zone terminals designed for wired digital sensor connection, such as magnetic door contact, motion detector etc. In addition, the 2 open-collector outputs on board allow to connect any wired siren as well as to connect and control any electrical appliance, such as gates, lights, watering etc. EW2 also features 2 inputs for 10k Ω NTC/PT1000 analog temperature sensor connection. The device can operate by powering it either using an external power supply or 3 x 1,5V AA type alkaline batteries on board. Once the external power supply is disconnected, EW2 will automatically switch to battery power. In order to start using EW2, it has to be paired with ELDES alarm system using *ELDES Configuration Tool* software or by sending a corresponding SMS text message to ELDES alarm system.

It is possible to connect up to 8 EW2 devices to EPIR3 system, while to ESIM364 alarm system - up to 16 EW2 devices at a time. The maximum wireless connection range is 150m (492.13ft) (in open areas).

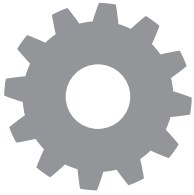


Unit	Description
ANT	Wireless signal antenna SMA type connector
+/-	Battery slots
STATUS	Red light-emitting diode for indication of data transmission
POWER	Green light-emitting diode for indication of external power supply status.
RESET	Button for restoring default parameters
FUSE	MINISMDC050F 0.5A

Connector	Description
COM	Common terminals
DC+	Positive power supply terminal
Z1–Z4	Zone terminals
T1–T2	10kΩ NTC/PT1000 temperature sensor terminals
C1–C2	Open-collector output terminals

LED indicator	Indication	Description
STATUS (red)	Steady ON/flashing	Data transmission in progress
POWER (green)	Steady ON	Device powered by external power
POWER (green)	OFF	Device powered by battery power / device inoperational

2. CONFIGURING AND PAIRING WITH THE SYSTEM



ELDES
Configuration Tool

For more details on how to configure and pair the device with the system, please refer to *ELDES Configuration Tool* software's HELP section or ELDES alarm system's installation/user manual.



If you are unable to pair the wireless device, please restore the parameters of the wireless device to default and try again (see 6. RESTORING DEFAULT PARAMETERS for more details.)

3. EW2 ZONES, PGM OUTPUTS AND TAMPER

Upon successful EW2 pairing process, the system adds 4 wireless Instant-type zones intended for sensor connection and 2 wireless PGM outputs intended for electrical appliance, relay or siren connection. In case of tamper violation, the alarm is caused regardless of system being armed or disarmed.

The wireless connection loss between EW2 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 listed user (-s) by default. The SMS text message contains the wireless device model, wireless ID code and tamper name.



The tamper will not operate if the wireless zones are disabled.



The response time might be delayed, while controlling the PGM outputs on a battery-powered EW2.

For more details on EW2 configuration, please refer to *ELDES Configuration Tool* software's HELP section.

4. TEMPERATURE SENSORS

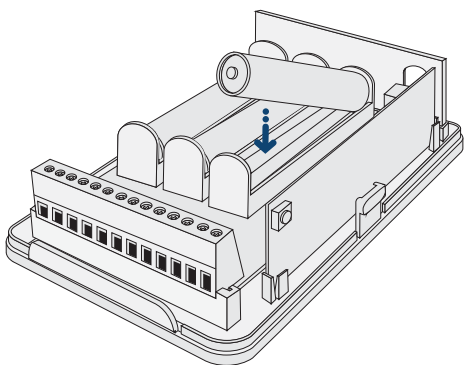
EW2 supports up to 2 temperature sensors of 10k Ω NTC or PT1000 type. You may use a single temperature sensor or multiple temperature sensors simultaneously. Multiple temperature sensors must be of the same type each connected to its own T1/T2 terminal. Once the temperature sensor (-s) is wired, it is necessary to select the corresponding type using *ELDES Configuration Tool* software after pairing EW2 device with the system. Also, after enabling

NTC option, you MUST enter the parameter B (beta) of temperature sensor.

The following table represents the supported temperature range and temperature measurement accuracy.

Temperature sensor type	Temperature range	Accuracy
10k Ω NTC	-40... -26°C (-40...-14.8F)	+/- 2.5°C (4.5F)
10k Ω NTC	-25... 85°C (-13...185F)	+/- 1°C (1.8F)
10k Ω NTC	+86... 100°C (186.8..212F)	+/- 2.5°C (4.5F)
PT1000	-50... +600°C (-58...1112F)	+/- 2.5°C (4.5F)

5. BATTERY REPLACEMENT

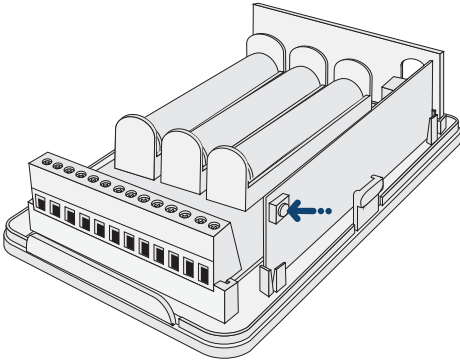


1. Open EW2 enclosure.
2. Remove the old batteries from the battery slots.
3. Insert the new batteries based on the battery slot positive/negative terminals indicated on the battery slots of EW2.



- 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.
- At least 1 battery must be removed if the device is not in use.
- 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.
- The battery status can be monitored in real-time using *ELDES Configuration Tool* software.
- The system sends an SMS text message to the listed user phone number as soon as the battery level runs below 5%.
- EW2 does NOT feature a built-in battery charging unit, therefore only 1,5V Alkaline AA type (non-rechargeable) batteries can be used.

6. RESTORING DEFAULT PARAMETERS



1. Remove any battery from EW2 and/or disconnect the power supply.
2. Press and hold the RESET button.
3. Insert the battery back to EW2 and/or connect the power supply.
4. Hold the RESET button until LED indicator shortly flashes several times.
5. Release the RESET button.



The EW2 can be powered by a 7-15V $\overline{\text{---}}$ 50mA DC power supply unit, if no additional devices are connected. The device is not meant for outdoor use, i.e. you should use it inside a building and the power supply unit must be plugged into a standard Euro 2-pin socket or UK 3-pin socket (depending on the version of power supply unit you have bought). When connecting the power supply, mind the polarity terminals. DO NOT switch the polarity terminals places. The main circuit should be protected by short circuit or over-current protection.

Please use the power supply that meets the EN 60950-1 standard. Any additional device you connect to the system, such as a computer, must also be powered by an EN 60950-1 approved supply.


Disconnect the mains power before installing. Never install or carry out maintenance during stormy weather. The electric socket that powers the device must be easily accessible.

To switch the system off, remove the batteries (if any), unplug the external electric power supply or power down any other linked device that EW2 is powered from. A blown fuse cannot be replaced by the user. The replacement fuse has to be of the kind indicated by the manufacturer (fuse F1 model – MINISMDC050F 0.5A).

7. TECHNICAL SPECIFICATIONS

Compatible with:

- ESIM364 v02.08.00 and up.
- EPIR3 v1.2.0 and up.

Supply voltage	7-15V  50mA max
Supported batteries	1,5V Alkaline AA type LR6 (IEC) / 15A (ANSI/NEDA)
Number of batteries	3
Battery operation time	~18 months*
Number of zones	4
Zone connection type	NC (normally-closed)
Number of PGM outputs	2
PGM output circuit	Open-collector output. Output is pulled to COM when turned ON.
Maximum commuting PGM output values	2 x 25V; 150 mA
Supported temperature sensor types	10kΩ NTC; PT1000
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)
Dimensions	82x63x17mm (3.23x2.48x0.67in)
Compatible with alarm systems	ELDES Wireless

* The operation time might vary in different conditions.

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 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

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 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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