EXT-POEG4H
EXT-POEG4H extender
v1.0

Edition: 1 from 07.04.2026
Supersedes edition: ----------

EN

Device features:

- Input voltage range 48–57 V DC
- Power supply from PoE switch
- PoE input: PoE IN - compliant with IEEE802.3af/at/bt
- PoE output: PoE OUT 2 - compliant with IEEE802.3af/at/bt
- PoE output: PoE OUT 3 – 5 - compliant with IEEE802.3af/at
- Increases Ethernet and PoE power range by 100 meters
- possibility of pole mounting (requires USH-1adapter - **optional accessory**)
- LED optical signalization
- designed for use in 10/100/1000 Mb/s networks
- VLAN mode
- Protections:
  - OLP overload protection
  - SCP short circuit protection
  - IP56 hermetic enclosure
- Warranty: 2 years

1. Technical description.

1.1. General description.

EXT-POEG4H extender is a device designed to extend transmission distance of PoE power and Ethernet data via UTP cat. 5/5e twisted pair cable to next 100m. Extender is powered from PoE switch or other PoE-compliant device (PoE IN input). Output voltage and data are available at PoE OUT 2 – 5 outputs, to which cameras or other IP devices using PoE power should be connected.

1.2. Specifications.

Table 1. Specifications.

Power supply	Compliant with 802.3af/at/bt (48 – 57 V DC)
Current consumption by module systems	<20mA
Module power	45 W max.
Ports	5 ports 10/100/1000 Mb/s (1 x PoE IN + 4 x PoE OUT) with auto negotiation of connection speed, auto MDI/MDIX crossover
Output voltage	Port PoE OUT 2 - compliant with 802.3af/at/bt Ports PoE OUT 3 – 5 - compliant with 802.3af/at
Output current	Port PoE OUT 2: 0,9 A Ports PoE OUT 3 – 5: 0,5 A/port (∑=0,9 A max.)
PoE IN input power supply pairs	**1/2 (+) 3/6(-)** **4/5 (+) 7/8 (-)**
PoE OUT 2 – 5 output power supply pairs	**1/2 (+) 3/6(-)** **4/5 (+) 7/8 (-)**
Overload protection (OLP) **Short circuit protection (SCP)**	105% – 150% of rated output current, automatic recovery
LED operation indication	LEDs (green) Ports 1 – 5: **ON** - the device is connected 10/100/1000 Mb/s **Blinking** - data transmission
External dimensions	W=158, H=118, D=77 [+/- 2 mm]
Cable gland height	H_1=34 [mm]
Number of cable glands/cable diameter	2 pcs. / 13 – 18 mm
Gland filling inserts	3x Φ5mm; 2x Φ5mm
Enclosure	ABS, light grey
Connectors: **- PoE inputs/outputs**	RJ45 8P8C
Protection grade EN 60529	IP56
Net/gross weight	0,4 / 0,45 [kg]
Declarations, warranty	CE, RoHS, 2 years

Table 1. Operating parameters.

Operating conditions	-25ºC – 50ºC, relative humidity: 20...90%, without condensation
Storage temperature	-25ºC...+60ºC
Vibrations during operation	unacceptable
Impulse waves during operation	unacceptable
Direct insolation	unacceptable
Vibrations and impulse waves during transport	According to PN-83/T-42106

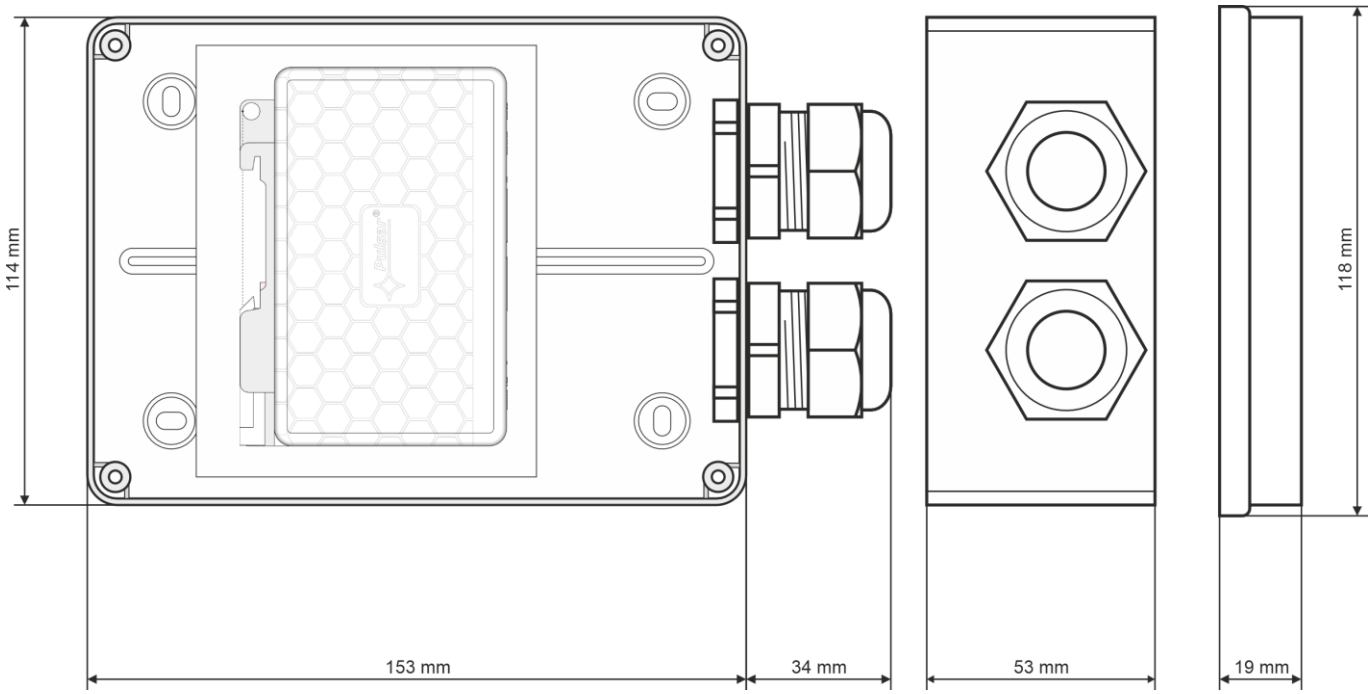

Fig. 1. View of enclosure.

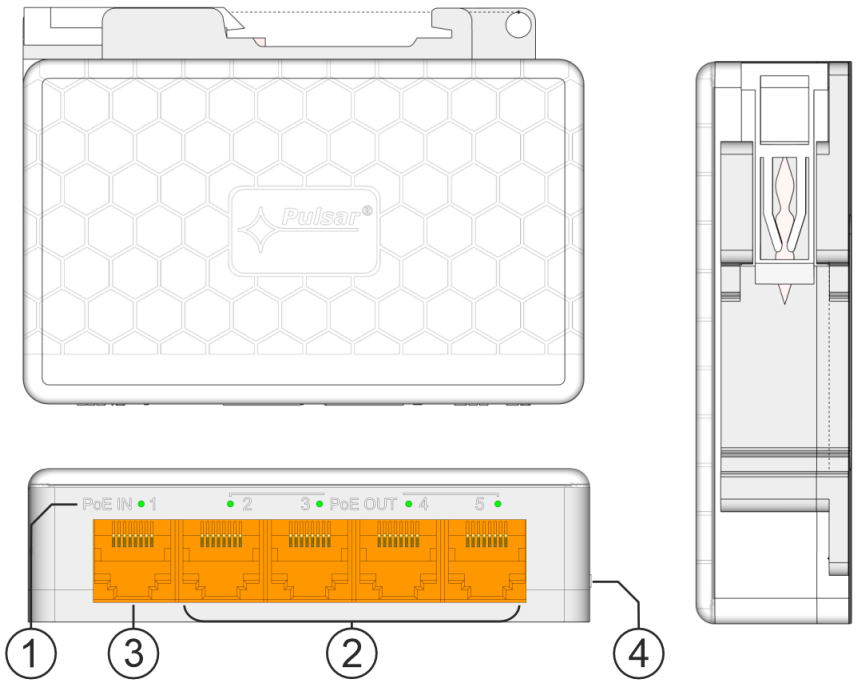

Fig. 2. View of extender.

Table 2. Description of components and connectors.

Element no. [Fig. 2]	Description
[1]	LED indication
[2]	**PoE OUT 2 – 5** - outputs
[3]	**PoE IN** - input
[4]	**VLAN mode switch**

Example of use:

2. Installation.

2.1. Requirements.

The extender is to be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for low-voltage installations. Device is recommended to be installed in a place protected from direct influence of atmospheric conditions and strong sunlight with temperatures from -25°C to +50°C. It is possible to mount device on a pole by USH-1 using bracket (not included).

Device is designed for operation in 10 Mb/s, 100 Mb/s or 1000 Mb/s (so-called **Gigabit Ethernet**) ethernet networks**.** Connections between the extender and the network device must be made using a min. UTP CAT.5e.

2.2. VLAN mode

Extender is equipped with a switch that activates VLAN function, which isolates PoE ports (communication takes place between the PoE IN port and the individual PoE OUT ports).

2.3. Installation procedure.

Install the device in its designated location and connect the Ethernet cables to the RJ45 connectors labeled **PoE IN** and **PoE OUT**. Connect the cable from PoE-compliant Ethernet switch connect to PoE IN input, taking into account the current capacity of the output port.
To PoE OUT 2 – 5 outputs connect devices, e.g. IP cameras.

3. Maintenance.

The unit requires no special maintenance.

WEEE LABEL
Waste electrical and electronic equipment must not be disposed of with normal household waste.
According to European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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