Installation Manual
POS901O

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Warning and safety instructions:

⚠️ *WARNING!*

⚡ *DANGER OF ELECTRIC SHOCK*

- POS901O must only be installed, operated, serviced, and maintained by qualified personnel.

- Units must not be repaired.

- Units must not be installed if the damage is observed during unpacking.

- All relevant local, regional, and national regulations must be observed during installation.

- KNOP Elektronik A/S assumes no responsibility for any consequences resulting from the use of this material.

- Turn off all power supplying this equipment before working inside the equipment.

- Unused cable glands must be closed properly for safety.

- POS901O must be mounted vertically with the cable gland down.

- POS901O cover must be installed before power is turned on.

- **Do not** clean high-pressure.

- Power cable must comply with national regulations according to the customer location.

Failure to follow these instructions will result in death or severe injury.

Intended use:

POS901O is an accessory for either POS901 or POS901L where one of them can be mounted in this outdoor mounting box.

POS901/POS901L is a transmitter designed to transmit positions to most KNOP products.

POS901O with a POS901/POS901L installed requires product settings to be set during installation prior to commissioning. Please refer to the POS901/POS901L manual for this.

A USB90X and KNOPtool on the computer are required to make product settings. Please refer to the USB90X/KNOPtool user manual.

POS901/POS901L requires no subsequent user-level operation or setup.

POS901 is with built-in antenna and POS901L is used for a larger LOOP antenna e.g., outdoor, underground, indoor, under the floor, or above/ceiling.
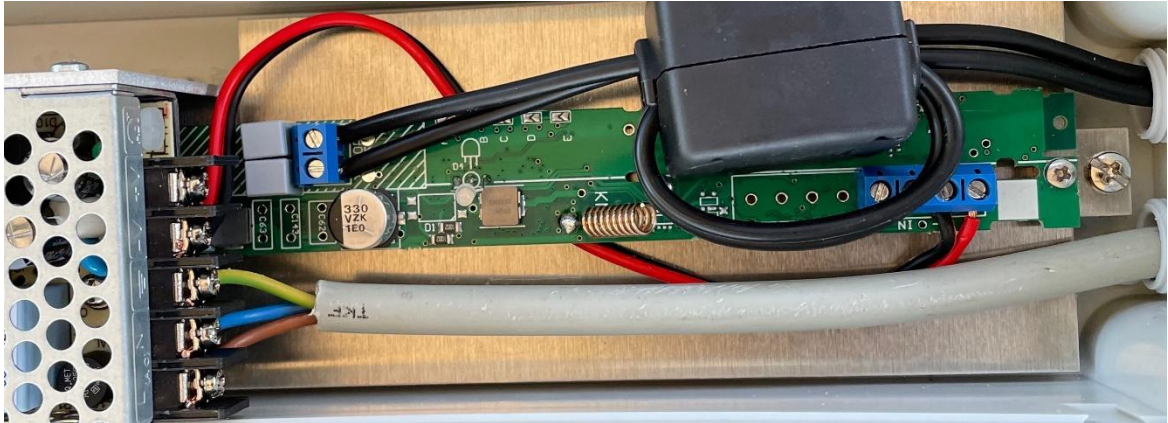
Commissioning:

It is necessary that the product (POS901/POS901S) is set up via KNOPtool before the product can be used correctly. Without the correct setting, the product cannot/will not work as intended. Please refer to the POS901/POS901L manual.

Thereafter, there is no operation or adjustment of the product.

Installation of POS901O:

It is important to:

- Mounting POS901/POS901L in POS901O box.
  - Remove the power supply in POS901O.
  - Remove the PCB in POS901/POS901L and install it in POS901O, reuse the screws.
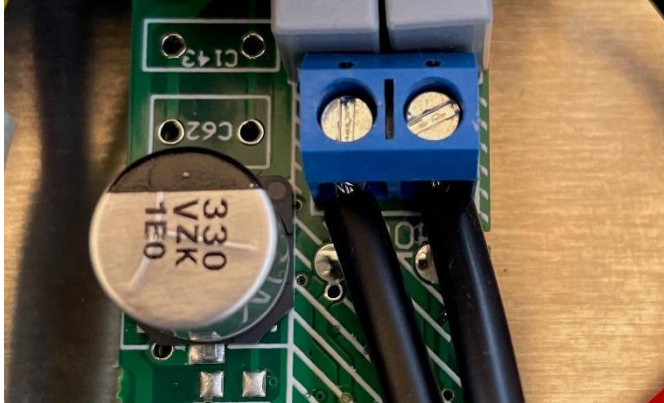 - Insert the power supply lead (red/black) into the PCB as shown.

- POS901O **must** be mounted vertically with cable glands downwards.

- POS901O is mounted with appropriate screws and any plugs as appropriate (not included). The screws **should be** fitted in the corners and not inside the base.

- The installation cable is threaded through the cable gland and connected to the power supply screw terminals N (blue), L (brown), and ground (yellow/green). An approved cable according to the conditions must be used.

  Remember to put the plastic cover back on!

- If a POS901L is installed in POS901O, the external LOOP cable must be threaded through first a cable pre-assembly and then into the included ferrite block twice and then closed.

- The cable is mounted in the screw terminals marked "LOOP".

- Unused cable glands must be closed with a blind plug e.g. EAN 4044773336764 - these are not included.

- Before putting it into service, make sure that the box is mounted correctly and that gaskets, etc. are intact so that the box is tight.

- *Important:* Note the serial number on the POS901/POS901L back cover for possible future use. The serial number can be found at the bottom of POS901/POS901L.

Cleaning:

The product can be cleaned with soapy water or a spray wipe. Do not pressure wash.

Spare parts and accessories

Spare parts and accessories can be ordered from Knop Elektronik A/S at www.knop.dk.

Technical data:

Frequency HF:	869.2125 MHz
Range:	Up to 1500m in free range for an RX901B [1]
Frequency LF/Loop:	18kHz +/- 1kHz
Range:	Depending on installed product.
Power supply:	85–264VAC 50Hz
	0.25A/230VAC (typ.)
Surrounding environment:	Outdoor use. ≤ 100% condensing
Ambient temperature:	-20°C to +50°C
Cabinet type:	Grey RAL7035 ABS
Cabinet dimensions:	W: 80mm, H: 250mm, D: 75mm.
Density:	IP44
Connections:	Possible external antenna or LOOP.
Weight:	Approx. 650g

The right to make changes is reserved.

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1) Measured outdoors with free sight between transmitter and receiver. In buildings, the range is reduced.

Symbol explanation and approvals:

$C\epsilon$	**This product complies with:** Directive 1907/2006/EU — REACH Directive 2011/65/EU — RoHS EN 301 498-1 V2.2.3 — Electro Magnetic Compatibility EN 301 489-3 V3.1.1 — Electro Magnetic Compatibility EN 50130-4:2011 + 2014 — Immunity alarm systems EN 300 220-1 V3.1.1 — Short Range Devices EN 300 220-2 V3.1.1 — Short Range Devices EN 300 220-3 V2.1.1 — Short Range Devices EN 60601-1-2:2014 + 2015 — Electromagnetic compatibility (Medical) EN 62368-1:2020 — Electrical safety EN 50581:2012 — Hazardous substances
(symbol)	The product must not be used if the packaging is damaged.
(symbol)	**Producer** KNOP Elektronik A/S, Fabriksvej 20, DK-7600 Struer, Denmark
(symbol)	Read the manual(s) before installation and commissioning.
(symbol)	Interference may occur in the environment of equipment marked with this symbol.
(symbol)	Must be protected against liquids before installation.
(symbol)	-20°C to +50°C, temperature limit for transport/storage and use.
(symbol)	The product must not be disposed of with normal household waste.
REF	**Product reference** POS901O, Outdoor position
SN	**Serial Number** The serial number is located on the product
IP	**Ingress Protection Code** IP44
(symbol)	The product must be grounded.