KNOP

User manual
POS901

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Warnings and safety instructions

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- Read the intended use before using.

- The unit must only be connected to a limited power supply of 15 W.

- Avoid direct sunlight.

- The product is not water-resistant unless noted in product specification.

Contraindications

In general, the product cannot be used if:

- The disabled client/patient is mentally ill.
- The disabled client/patient is critically ill.
- The client/patient is unable to use the transmitters.

Lifetime after mounting of the device

The battery, if applies, must be replaced when the battery replacement information appears on the display and according to the user manual.

Lifetime is evaluated in relation to the pressure button. This is made according to the supplier's specification.

Lifetime battery (products using battery, only)

KNOP calculates the life of the batteries. See specification in the user manual.

Intended use

In general, the different variants of the medical device (transmitters/receiver system from KNOP Elektronik) are made as assistive aid for impaired/disabled patients to be able to call for assistance.

The various variants of the medical equipment consist of a combination of products (transmitter and receiver) designed to call for help to impaired/disabled patients; The transmitter-receiver system can be activated in different ways:

- For example, patients who actively do this and are aware that they are calling for help, such as e.g., people with walking difficulties who need help going to the toilet.
- Or disabled patients who are not aware that they are inadvertently putting pressure on the sendere.g. during a seizure.

- Or patients with intellectual and cognitive deficits who are not aware that a receiver is receiving a signal from their transmitter when they leave a house or room.

The system is not designed for critically or mentally ill persons.

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General product description

The products manufactured by KNOP elektronik consist of several variants of transmitters and receivers that can be combined with each other. In addition, these products are used in combination with positioning and repeater systems.

These products are medical devices intended to call for assistance and are used for disabled/mobile people, such as those with walking difficulties who need help going to the toilet. The transmitters are activated, for example, by a sound or by pressure (e.g. by pressure with a finger or a breath through the mouth). The recipient is supervised by health care personnel or lay people in private homes.

The system is not designed for critically or mentally ill people.

Part of product	Function in the product system
Transmitter	The transmitter can send the signal obtained from the patient to the receiver monitored by the healthcare personnel or lay person. The transmitter products can be activated by button, sound, blow or movements.
Receiver	The transmitters can be coded into all the receivers and to several receivers at the same time. Some receivers also have a summon button for calling assistance from their coworkers.
Repeatersystem	If it is needed to cover a more comprehensive and larger area a repeater system is used. The repeater system also gives an increased functionality as e.g. that an alarm automatically is received at first at the healthcare person closest to the client.
Positionsystem	If a sender is equipped with a position receiver it can be used in connection with a Position system. Not all product variants include position receivers. Typically, it is seen in connection with nursing homes and security for patients with dementia. The receivers can be portable or stationary.

Product description

POS901 is a transmitter designed to transmit positions to KNOP 901 series products. These products can be set to different operating modes when a position is received.

The POS901/POS901L requires the advanced settings of the product to be set during installation and commissioning. Please check the Knoptool manual and the POS901/POS901L installation manual.

POS901/POS901L requires no subsequent operation or adjustment.

POS901 has a built-in antenna and POS901L is used for a loop antenna, e.g. outdoors under a pavement.

Indicator

The product's LED can show the following:

- Lights green when POS901/POS901L is running under normal conditions.
- Flashes green when POS901/POS901L is being calibrated.
- Lights yellow when POS901/POS901L has reduced power, e.g. too hot.
- Flashes red when POS901/POS901L is faulty - contact your retailer or Knop Elektronik.
- Flashes rapidly red when POS901/POS901L is connected to KnopTool.

Note that the indicator can be turned off in advanced settings (see the KnopTool manual), but not in case of error.

Spare parts and accessories

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

Cleaning

The product can be cleaned with a moist cloth or a wet wipe.

Technical data

Frequency HF:	869.2125 MHz
Range:	Up to 1500m of unobstructed view for an RX901B. [1]
Frequency LF/Loop:	18kHz +/- 1kHz
Range:	Up to 240 cm depending on wall conditions.
External power supply:	10-24VDC (supplied with max. 15W)
Power consumption, typical:	150 mA
Surrounding environment:	Indoor use. < 90% humidity without condensation.
Ambient temperature:	0-40° C
Cabinet type:	White RAL9010 ABS
Cabinet dimensions:	W: 27mm, H: 237mm, D: 21mm.
Density:	IP20
Connections:	External floating inputs, outputs, and power supply. External rod or loop.
Weight:	POS901: 150g
	POS901L: 80g

The right to make changes is reserved.

[1] Measured outdoors with an unobstructed view between transmitter and receiver. In buildings, the range is reduced.

Explanation of symbols and approvals

CE	**This product complies with:** Directive 2017/745/EU MDR Directive 1907/2006/EU REACH Directive 2011/65/EU RoHS Directive 2012/19/EU WEEE ISO 14971:2019 Risk Management for Medical devices 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
⊠	The product must not be used if the packaging is damaged.
MD	**Medical Device** Class 1, rule 1
🏭	**Manufacturer** KNOP Elektronik A/S, Fabriksvej 20, DK-7600 Struer, Denmark
📖	Read the manual(s) before installation and commissioning at www.knop.dk.
((•))	Interference may occur in an environment with equipment marked with this symbol.
☂	Can be protected against liquids before installation.
🌡	0 °C to +40 °C, temperature limit for transport/storage and use.
🗑	The product must not be disposed of with normal household waste.
SRN	**Single registration number** DK-MF-000025631
UDI	**Unique Device Identifier** 05744002850441 05744002853442 05744002855446
REF	**Product reference** POS901, Position Rod POS901L, Position Loop POS901S, Position Slave
SN	**Serial number** Placed on the product
IP	**Ingress Protection Code** IP20