

User manual

RP902





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Warning and safety instructions:



- The battery in this product complies with the relevant IEC safety standards for batteries.
- Please read the safety instructions on the power supply before use.
- The power supply unit must meet the relevant IEC safety standards.
- The battery must not be replaced, and the product must be sent for repair.
- The product must not be disassembled. Risk of electric shock!
- Read the intended use before putting it into service.



Intended use

RP902 is a repeater unit for our Mater Repeater system.

RP902 unit will be able to extend the range of the system. Up to 14 repeaters can be added to a system.

RP902 has no independent functions, it only works if there is a master unit.

Commissioning

RP902 only needs to be connected to a 230V socket. No wiring is needed between the units.



The unit switches on automatically when it is connected to the electricity supply network.



The LED

The LED is either green or red when lit.

RED:	Error, no connection
RED flashing:	Battery status.
GREEN:	Connection and OK.
GREEN flashing:	Confirmation of the answer.
No light:	The device is switched off.

Backup

The RP902 has an internal backup battery that keeps the system running in case of power failure.

The battery lasts for a few hours. If necessary, the battery can be recharged (a full charge takes about 24 hours).

If the battery cannot be replaced, contact your retailer for battery service.



Configure

Before use, the RP902 must be connected to the system. This must be done in the MR902 unit. See the MR902 user manual on how to do this.

Service

RP902 has four primary buttons, these are for future use.

F4, on the other hand, is for shutting down the unit, usually before transport or long-term storage.

Shutdown: disconnect RP902 from the electric power supply by pressing and holding F4 for about 5 seconds until it flashes RED.

Maintenance

Software update:

It is possible to update the RP902 software. For a more detailed description, please check the KNOPtool.

Cleaning

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

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 1500 metres between MR902/RP902 and RP in free view. ⁽¹⁾
Range in a building:	Recommended distance between repeater units <25m
Power supply:	230VAC
Connection plug:	2-pole EURO
Battery:	Lithium battery, LP853048 3.7V 1200mA
Battery time:	Approximately 4 hours
Charge:	Approximately 1 day
Surrounding environment:	Indoor use. ≤ 90% non-condensing
Ambient temperature:	0°C to +40°C
Cabinet type:	Color RAL9001 ABS
Cabinet dimensions:	Ø110mmx52mm
Desnity:	IP40
Weight:	135g

The right to make changes is reserved.















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⁽¹⁾ Measured outdoors with an unobstructed view between transmitter and receiver. In buildings the range is reduced.



Explanation of symbols and approvals

	<p>This product complies with:</p> <table border="0"> <tr> <td>Directive 2017/745/EU</td> <td>MDR</td> </tr> <tr> <td>Directive 1907/2006/EU</td> <td>REACH</td> </tr> <tr> <td>Directive 2011/65/EU</td> <td>RoHS</td> </tr> <tr> <td>ISO 14971:2019</td> <td>Risk Management for Medical devices</td> </tr> <tr> <td>EN 301 498-1 V2.2.3</td> <td>Electro Magnetic Compatibility</td> </tr> <tr> <td>EN 301 489-3 V3.1.1</td> <td>Electro Magnetic Compatibility</td> </tr> <tr> <td>EN 50130-4:2011 + 2014</td> <td>Immunity alarm systems</td> </tr> <tr> <td>EN 300 220-1 V3.1.1</td> <td>Short Range Devices</td> </tr> <tr> <td>EN 300 220-2 V3.1.1</td> <td>Short Range Devices</td> </tr> <tr> <td>EN 300 220-3 V2.1.1</td> <td>Short Range Devices</td> </tr> <tr> <td>EN 60601-1-2:2014 + 2015</td> <td>Electromagnetic compatibility (Medical)</td> </tr> <tr> <td>EN 62368-1:2020</td> <td>Electrical safety</td> </tr> <tr> <td>EN 50581:2012</td> <td>Hazardous substances</td> </tr> </table>	Directive 2017/745/EU	MDR	Directive 1907/2006/EU	REACH	Directive 2011/65/EU	RoHS	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
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EN 50581:2012	Hazardous substances																										
	<p>The product must not be used if the packaging is damaged.</p>																										
	<p>Medical Device Class 1</p>																										
	<p>Manufacturer KNOP Elektronik A/S, Fabriksvej 20, DK-7600 Struer, Denmark</p>																										
	<p>Read the manual(s) before installation and commissioning.</p>																										
	<p>Interference may occur in an environment with equipment marked with this symbol.</p>																										
	<p>Must be protected against liquids.</p>																										
	<p>0 °C to +40 °C, temperature limit for transport/storage and use.</p>																										
	<p>The product must not be disposed of with normal household waste.</p>																										
	<p>Single Registration Number DK-MF-000025631</p>																										
	<p>Unique Device Identifier 05744002850342</p>																										
	<p>Products reference RP902, Repeater</p>																										
	<p>Serial Number Placed on the product</p>																										
	<p>Ingress Protection kode IP40</p>																										