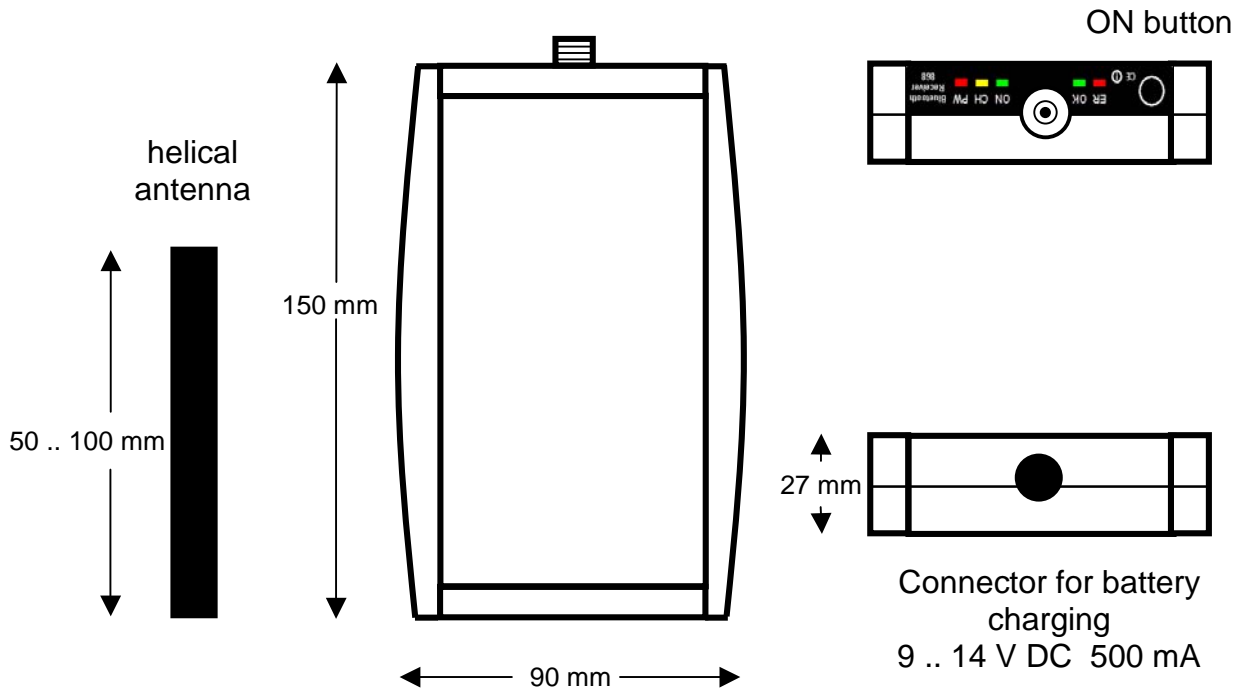


Bluetooth Receiver 868 / 434 Instructions

SMA connector for
direct mount or
external antenna



Important Note: The Bluetooth Receiver 868 / 434 device (radio receiver for 868 MHz or 434 MHz with Bluetooth interface, Bluetooth Receiver in the rest of the text) may only be operated by trained personnel.

Introduction

The Bluetooth Receiver is a radio receiver for the 868 MHz or 434 MHz ISM band. It is used together with a handheld computer to read the meter data of HYDRO-RADIO consumption meters. Instead of a cable connection between the Bluetooth Receiver and the handheld computer a wireless 2.4 GHz Bluetooth connection is used. The power supply of the Bluetooth Receiver is provided by built-in NiMH batteries (approximately 15 hours of continuous operation with fully charged batteries).

Important Note: For using the Bluetooth Receiver a respective handheld computer is mandatory. Please consult the manual of your handheld computer for establishing a Bluetooth connection between your handheld computer and the Bluetooth Receiver.

Package content

Before using your Bluetooth Receiver please check the package content:

- Bluetooth Receiver 868 MHz or 434 MHz
- Direct mount helical antenna (between 50 to 100 mm long, depending on the version)
- Battery charger 12 V DC 500 mA

Start-Up

Mount the accompanying antenna onto the SMA connector of the Bluetooth Receiver.

Important Note: Please charge the built-in NiMH batteries of the Bluetooth Receiver before using it the first time. For doing so plug the accompanying battery charger into a wall plug and connect the Bluetooth Receiver to the battery charger.

A red LED (PW) and a yellow LED (CH) light up. Do not disconnect or use the Bluetooth Receiver unless the yellow LED (CH) is switched off.

Only the accompanying battery charger may be used for charging the Bluetooth Receiver. Using a different battery charger may destroy the built-in NiMH batteries.

The built-in NiMH batteries are reaching their maximum capacity only if they are charged and discharged completely the first two or three times. Therefore, you should disconnect the Bluetooth Receiver from the battery charger the first two or three times when it is fully charged. You should also discharge it completely (by normal usage) at the beginning. For standard use we strongly recommend to disconnect the Bluetooth Receiver at least after 14 hours. Because there is an automatic shift from quick charge to trickle charge mode after about 4 hours (fully discharged batteries assumed), the point in time is not critical at all.

Important Note: The capacity of the built-in NiMH batteries diminishes with time. This can be seen by a shorter operating time. This is a standard aging process. The Bluetooth Receiver should not be stocked at higher temperatures (> 30 °C) for an extended period of time, since the aging process is accelerated under this condition. The built-in NiMH batteries may only be replaced in the factory (with additional costs).

LED Indicators



ON Button: Press the ON button to switch on the Bluetooth Receiver. After 4 minutes of not receiving any demands over the Bluetooth interface (no Bluetooth connection established) the Bluetooth Receiver switches itself automatically off.

PW (red): The red PW LED indicates that the battery charger is connected to the Bluetooth Receiver.

CH (yellow): The yellow CH LED indicates that the built-in NiMH batteries of the Bluetooth Receiver are charging. Once fully charged the yellow CH LED will be switched off and the Bluetooth Receiver switches to trickle charge mode.

ON (green): The green ON LED indicates that the Bluetooth Receiver is switched on. After pressing the ON button the ON LED must light up. If this is not the case, please charge the Bluetooth Receiver.

OK (green): The green OK LED lights up if a valid HYDRO-RADIO telegram was received.

ER (red): The red ER LED lights up if an invalid HYDRO-RADIO telegram was received.

Immediately after the Bluetooth Receiver has been switched on the OK and ER LED light up also for approximately 1 second if the internal self-test was successful. If this is not the case and the two LED are not flashing once after switching on the Bluetooth Receiver, or if the two LED light permanently, the Bluetooth Receiver has not passed its internal self-test and must be verified.

Customer Support

A complete technical data sheet and additional information are available at our internet page.

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