

# RECEIVER/ RADIO REPEATER FOR METERS WITH M-BUS WIRELESS PROTOCOL (EN13757-4)



The repeater family is represented by a range of wireless repeaters able to acquire the signal from one or more communicating meters according to the standard M- BUS wireless (868 MHz) and retransmitting the received data to a network of other devices in order to extend their wireless range. Data can be also collected by the 1.ETRSEQ.0051 datalogger. Each RPT handles up to 500 mt and it is able to cover a distance of 500 meters in open air and 40 meters in building. The plastic case, from the simple and elegant design, the electrical connections fully retractable, antennas built into the device itself make the repeater suitable for wall installations in view. The commissioning of repeaters is facilitated by the on-board leds to represent the intensity of the signal, also the search for the best point of installation is facilitated by the ability to power the device via USB making it possible to move during the search of better compromise signal/distance.

## Easy to use

The USB interface allows the use of the "Equobox Toolkit" software to read the data coming from meters and the commissioning of the repeater network.

### **Multi-HOP and open**

The repeaters have a multi-hop function that allows to extend the network coverage when used with other repeaters, it is also able to manage meters with wireless M-Bus (868 MHz) and OMS protocol. The received signals are retransmitted immediately without time-shifting so as to have consumption data in real time.

## **STRONG POINTS**

- Multi-hop management with system ID network identification
- Openness to Wireless M-Bus multi-brand transmitters
- Management of different operation modes (S / T / C+T / S & C+T)
- USB port onboard for the repeater settings and the
- firmware updated (via Equobox Toolkit software), and power supply (especially indicated for commissioning phase)
- Grid network supply (no need to change batteries)
- Persistent data storage
- Management of data transmitted from devices that communicate with frequency up to 10 seconds (Wireless M-Bus receiving Channel always available)
- Wide area covered than any other wireless M-Bus system present in market



#### **SMART**

The repeater supports stand-alone mode, in effect it keeps track of the last received frame of each meter, providing the ability to download acquired data via datalogger.



METERING EXPERTISE

## ELECTRICAL CHARACTERISTICS

#### **Power Supply**

Installation category Maximum consumption

## **MECHANICAL CHARACTERISTICS**

Temperature range Dimensions Mounting Protection rating

## **MESH NETWORK INTERFACE**

Frequency Maximum distance between two RPT

## WMBUS NETWORK INTERFACE

Reference standard Supported application layer (in combination with SIN.EQRTU1T or with SIN.EQSW) Frequency Number of supported W-MBus meters W-Bbus Mode Modality of meters recognition

## DATALOGGING

Data retention

### USER INTERFACE

Power Led Power Led signal

TX/RX Status Led

100...240 Vac @ 50-60Hz During startup / reading data: 5Vdc via USB port (500mA) Class II 4.5W

Operating: -20°C a +55°C / Storage: -25°C a +85°C 160x160x35 mm (HxLxP) – DIN Wall with screws IP 40 (EN60529)

868MHz - Max. transmission power: 27 dBm 500mt free field - 40mt in building

EN13757-4 (Physical Layer), EN13757-3 (Application Layer) Wireless M-Bus, OMS,

868MHz 500 S / T / T+C / S & C+T Based on data receipt Based on SND\_IR message receipt Meters list import from file

Last sample received 100 years

Operating status No. 4 LEDs for displaying the signal strength of the wireless network backbone No. 4 LEDs to display the status of the radio network backbone and meters receive / transmit

