

**WIRELESS REPEATER/RECEIVER FOR METERS
COMPATIBLE WITH WIRELESS M-BUS PROTOCOL (EN13757-4)**



This family includes a range of wireless repeaters able to acquire the signal from one or more meters compatible with the Wireless M-BUS communication standard (868 MHz) and retransmit the received data to a network of other devices, thus extending the wireless range of the meters themselves.

The data can also be logged by the 1.ETRSEQ.0051 datalogger.

Each RPT can handle up to 500 meters and has a coverage extending up to 500 m in free space and 40 m inside buildings.

With a clean and elegant plastic case, fully hidden electrical connections and internal built-in antennas, the repeater is ideal for wall installation in visible locations as well. Commissioning is made easier by the device LEDs that show the strength of the radio signal available in the different tentative locations.

The device can be powered from its USB port so that it can be easily moved while searching for the best installation location that provides the best signal-to-distance ratio.

HIGHLIGHTS

- Multi-hop management with system ID network identification
- Open to third-party Wireless M-Bus Transmitters
- Different operating modes available: S / T / C+T / S&T+C
- Built-in USB port for settings configuration and firmware update (using the “Equobox Toolkit” software), and power supply (useful for commissioning)
- Mains power (no need to change batteries)
- Constant data storage
- Management of data transmitted by devices that communicate at up to 10 second intervals
- (Wireless M-Bus channel reception always available)
- Wide area coverage, when compared to any other wireless M-Bus system on the market

Multi-HOP and open

The repeater has a multi-hop function which allows you to extend the network coverage when used with other repeaters. It is also able to handle meters compliant with Wireless M-Bus (868 MHz) and OMS. The received signals are retransmitted immediately, without time-shifting so as to provide consumption data in real time.



SMART

The repeater supports stand-alone mode, and it memorises the latest data received from each meter, thus making it possible to download the data it acquired using a datalogger.

ELECTRICAL CHARACTERISTICS

Power supply	100 to 240 Vac at 50-60Hz During commissioning/data reading: 5Vdc via USB port (500mA)
Installation category	Class II
Maximum consumption	4.5W

MECHANICAL CHARACTERISTICS

Temperature range	Operating: -20°C to +55°C / Storage: -25°C to +85°C
Dimensions	160x160x35 mm (HxLxD) – DIN
Fitting	Wall-mounted, with screws
Protection rating	IP 40 (EN60529)

MESH NETWORK INTERFACE

Frequency	868MHz – max. transmission power: 27 dBm
Maximum distance between two RPTs	500m free space – 40m in building

WMBUS NETWORK INTERFACE

Regulatory references	EN13757-4 (Physical Layer), EN13757-3 (Application Layer)
Supported application layers (in combination with SIN.EQRTU1T or with SIN.EQSW)	Wireless M-Bus, OMS
Frequency	868MHz
Number of W-MBus meters supported	500
W-MBus Mode	S / T / T+C / S & T+C
Meter recognition mode	Based on data reception Based on SND_IR message receipt Meter list import from file

DATALOGGING

Data retention	Latest sample received, 100 years
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USER INTERFACE

Power LED	Operating status
Signal strength LEDs	4 LEDs for displaying wireless network signal strength

TX/RX status LEDs	4 LEDs for displaying the status of the radio network and transmission/reception from meters
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