

WIRELESS M-BUS GATEWAY



The gateways family is represented by a range of wireless gateways able to acquire the signal from one or more communicating meters according to the standard M-BUS wireless (868 MHz) / OMS EN13757 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 SIN.EQRTUEVO1T datalogger. Each RPT868X is capable of covering a diameter of 500m in free air and 30m in building. The plastic case, from the simple and elegant design, the electrical connections fully retractable, antennas built into the device itself make the gateway suitable for wall installations in view. The commissioning of gateways is facilitated by the "Equobox Toolkit" software and 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

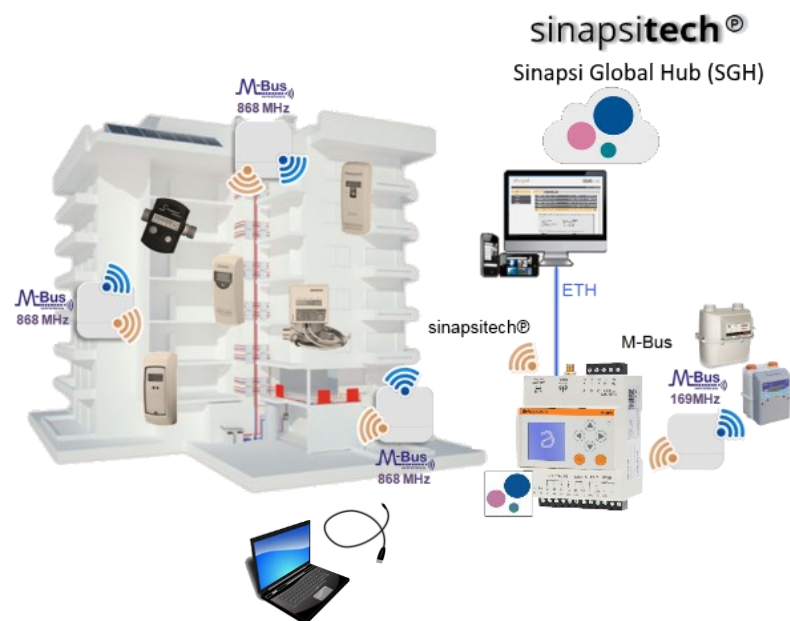
The USB interface allows the use of the "Equobox Toolkit" software to read the data coming from meters and the commissioning of the gateway network.

Multi-HOP and open

The gateways have a multi-hop function that allows to extend the network coverage when used with other gateways, 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)
- ✓ Extreme ease of configuration through the use of: onboard indicators, Equobox Toolkit software, web interface of SIN.EQRTUEVO1T
- ✓ 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)



SMART

The gateway 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.

ELECTRICAL CHARACTERISTICS

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

MECHANICAL CHARACTERISTICS

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

MESH NETWORK INTERFACE

Frequency	868MHz - Max. transmission power: 27 dBm
Maximum distance between two RPT	500mt free field - 40mt in building

W.M-BUS NETWORK INTERFACE

Reference standard	EN13757-4 (Physical Layer), EN13757-3 (Application Layer)
Supported application layer (in combination with SIN.EQRTUEVO1T or with SIN.EQSW1)	Wireless M-Bus, OMS,
Frequency	868MHz (RPT868XT)
Number of supported W. M-Bus meters	500
W. M-Bus Mode	S / T / T+C / S & C+T
Modality of meters recognition	Based on data receipt Based on SND_IR message receipt Meters list import from file

DATALOGGING

Data retention	Last sample received 100 years
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USER INTERFACE

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

