

RADIO DATA CONCENTRATOR FOR METERS WITH M-BUS WIRELESS PROTOCOL (EN13757-4), OMS



The SIN.EQRPT868XM is the definitive solution for smart metering application of small properties. SIN.EQRPT868XM data concentrator allows the acquisition of signal from RF devices according to the standard wireless M-Bus 868MHz and OMS. It is able to cover a distance of 250 meters in open air and 25 meters in building. The plastic case, the electrical connections fully retractable, antennas built into the device itself make the device suitable for wall installations in view. The commissioning of the repeater is facilitated by the Sinapsi Global Hub IoT Platform and LEDs. The SIN.EQRPT868XM have integrated GPRS modem and it is supplied with the IoT SIM. It can manage max 500 devices. It supports wireless M-Bus S, T & C modes. The system can be easily managed through the Sinapsi Global Hub IoT Platform. No time-expiring limitation: grid network supply (no need to change batteries). The range covered by the SIN.EQRPT868XM can be extended via standard wireless M-Bus repeaters 868MHz (SIN.EQRPT868X).

Easy to use

Commissioning and configuration through APP that can be consulted via smartphone, tablet and PC. The reading data are transmitted or made available periodically:

- via email through .csv, .xls files
- via ftp
- via API

Open

The SIN.EQRPT868XM data concentrator allows acquisition from devices of different manufacturer, supporting multi-mode (S, T, C) wireless M-Bus devices 868MHz and OMS protocol. It is able to support generic sensors (temperature, humidity, pressure, digital alarms ...) transforming a centralization system into an intelligent IoT application.

Sinapsi Global Hub IoT Platform



ELECTRICAL CHARACTERISTICS

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

MECHANICAL CHARACTERISTICS

Temperature range	Operating: -10°C a +85°C / Storage: -10°C a +85°C
Dimensions	160x160x35 mm (HxLxP) – DIN
Mounting	Wall with screws - Pole with optional kit
Protection rating	IP 40 (EN60529)

WIRELESS M-BUS NETWORK INTERFACE

Reference standard	EN13757-4 (Physical Layer), EN13757-3 (Application Layer)
Supported application layer	Wireless M-Bus, OMS
Frequency	868MHz
Number of supported Wireless M-Bus meters	Max 500
Wireless M-Bus Mode	C T, S, S + C T
Modality of meters recognition	Based on data receipt Based on SND_IR message receipt Meters list import from file

USER INTERFACE

Sinapsi Global Hub	Remote management through SGH IoT platform
Front Led	RGB led: power & operating status Green leds: local configuration of Wireless M-Bus Mode, reception mode, GPRS signal level

COMMUNICATION

Sim	Micro Sim (supplied)
Modem	GPRS for Europe/Asia Dual-Band (900/1800 MHz)
Frequency of sending reading data	15 minutes daily weekly monthly
Mode of sending reading data	Mail (.csv, .xls) Ftp API RESTful

