SIN2PSI invent today

EQUOBOX RTU1T (SIN.EQRTU1T) is a datalogger to acquire data from SIN.EQRPT868XT, which, through the mesh network, collect information from devices that use M-Bus wired and wireless protocol such as meters, heat cost allocators, digital inputs / outputs, analog inputs / outputs.

Manages up to 500 meters providing storage of daily readings for 10

years. The web interface allows accessing data, reports generating, the

It is equipped with a graphical display for setup, accessing data in real time and the status of the I / O without the need of a PC. It has inputs and outputs through which it is possible to interact with the system and sending emails, acting with combinatory AND / OR logics and manual

At the datalogger up to 20 M-Bus meters* can be directly connected, with the help of SIN.EQLC1 level converters it is possible to increase the

For an easy installation a remote antenna with 1.5 mt of cable is included

Through the Internet the device will check for updates and notify the

SIN.EQRPT868XT

IN.FOLC1

user who can decide to install them with a simple click in the web

SIN.EQRPT868XT

setup of the M-Bus networks and the management of I / O.

controls via WEB interface.

number of up to 250 meters.

*Meter means an M-Bus load unit (≤ 1.5 mA)

in the box.

interface.

ALWAYS UPDATED

M-Bus/Wireless M-Bus DATALOGGER



EASY TO USE

The graphic display allows to make the commissioning of the metering system in a few steps guided by a setup wizard. The main settings can be performed locally on the display or via WEB interface.

Equipped with two Ethernet ports with switch functionality, it allows to connect multiple devices in cascade without the aid of network devices, moreover it is possible to power the device also via Power over Ethernet (PoE).

Maximum number of meters for interface	
WIRED	WIRELESS
METERS	METERS
250 (with SIN.EQLC1 level	250
converters)	230
20	480
0	500

SMART

The user can start scanning the M-Bus network to allow the acquisition of devices connected via cable or via radio through a single button. Automatic recognition of detected devices allows to immediately start the data acquisition and the automatic creation of reports using predefined data sets, user-changeable, complete with measurement unit, size type and description (language), with resulting elimination of need for further user activities.



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ELECTRICAL CHARACTERISTICS

Power Supply Installation category Maximum consumption Ethernet Fieldbus

Digital Inputs Digital Outputs

Auxiliary voltage for digital Inputs

MECHANICAL CHARACTERISTICS

Temperature range Dimensions Mounting Protection Grade

WIRED M-BUS INTERFACE

Reference standard Baud rate Number of supported M-Bus meters Reading frequency Recognition of collisions on M-Bus network Devices search / acquisition

WIRELESS INTERFACE

Frequency Number of supported concentrator Supported application Layer Methods of meters recognition

DATALOGGING

Data storage

Reports Download report Report scheduling

USER INTERFACE

Display Keyboard Led Power HTTP

LOGICS / ALARMS/PLANNING

Alarm notification from M-Bus network On board I/O Logic

Planned actions

24Vdc +/- 10%, 24 Vac (min 20 Vac, max 40 Vac) or PoE (IEEE 802.3) Class II 7.5W N°2 (1 MAC): ETH1: Ethernet 1(PoE), ETH2: Ethernet 2 Total number of supported meters: 500 (wireless + wired) Wired M-BUS interface max 20 meters radio interface N°3 - OFF=Vin<12Vdc, ON=Vin>12Vdc, max Vin=24vdc N°2Relays, Contact load: 5A@30V ac/dc (Resistive Load) 2A@30Vac/dc (Inductive Load cosfi=0.4; L/R=7ms) 15Vdcmax10mA

Operative: -20°C a +55°C / Storage: -25°C a +65°C 90x71x62 mm (HxLxP) – DIN 35mm DINRail (EN60715) IP20 (EN60529)

EN13757-2 (Physical Layer), EN13757-3 (Application Layer) Min. 300bps – Max. 9600bps Without level converters M-Bus: 20, with level converters: max 250 15 min / 60 min / 6 hours / 12 hours / 1 day / 7 days/ 1 month Yes Via Primary and Secondary Address

868MHz 23 Wireless M-Bus Automatic or via import system file

1 year for intra-day data from wired meters, 2 months for intra-day data from radio meters XLS or CSV format Mail SMTP, FTP (Client), Webserver (report generation and downloading) Daily / Monthly / Two-monthly/ Three-monthly / Four-month/ Biannual / Yearly

Graphic, bright, 16 grayscales, multilingual 6 tactile membrane keys Operating status Multilanguage web server for data consulting and configuration

Anomalies /alarmsmeters, communication failure, thresholds violation notification by e-mail of digital Inputs status AND/OR based on local I/O and M-Bus network Thresholds violation (max value, min value, range, maximum consumption) Sending of readings reports