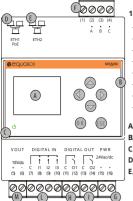


SIN.EQRTU1 - QuickStart Guide

Datalogger for meters with M-Bus protocol





1. OVERVIEW

- Datalogger with web-server interface
- Manages up to 250 M-Bus meters (Meter-Bus)
- Archived data over the last 10 years
- Meters data acquisition interval from 15' to 1 month
- Meters reading, report sending, system remote management
- 24Vdc +/- 10%, 24Vac (min 20Vac, max 40 Vac) power Supply or PoE
- DIN rail mounting (4 modules)
- Graphic display and digital I/O

A. Graphic display B. Navigation keys

- C. Led apower supply
- D. Ethernet Port 1 (PoF) E. Ethernet Port 2
- F. Connector for SIN.EOLC1
- G. Power supply Connector
- H. Relay 1 connector
- I. Relay 2 connector
- L. Digital Input connector
- M. Auxiliary ouput voltage connector

2. CONNECTIONS

Power supply:

Digital Inputs:

- (7) Common for digital Inputs
- (8) Digital Input 1 (Vin 12-24Vdc) (9) - Digital Input 2 (Vin 12-24Vdc)
- (10) Digital Input 3 (Vin 12-24Vdc)

Relay Output:

(11) - Common Relay 1 (12) - NO Relay 1 Contact

3

- (13) Common Relay 2
- (14) NO Relay 2 Contact
- (4) Pin (C)

Auxiliary output voltage: (5) - Vout positive pin +15V.

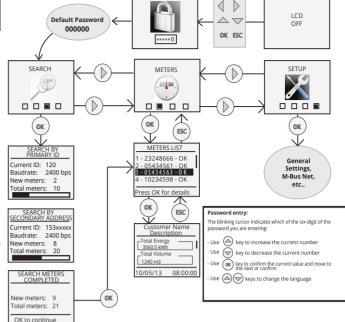
- Imax = 10mA
- (6) Vout negative pin

Interface for SIN.EQLC1

(1) - Not connected

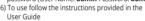
(2) - Pin (A)

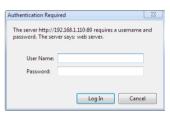
(3) - Pin (B)



4. FIRST ACCESS TO THE WEBSERVER

- 1) Connect one of the two Ethernet ports to your PC or LAN
- 2) Make sure that you PC has an IP address of 192.168.1.xxx type where xxx is a number between 1 and 254 different from 110
- 3) Open an internet browser (Chrome, Firefox or Safari)
- 4) On the address bar digit 192.168.1.110 5) At autenthication request enetr the default
- password (User Name: admin Password: admin) 6) To use follow the instructions provided in the





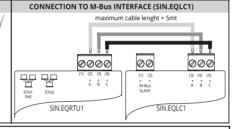
(15) - Input 1 for device Power supply (16) - Input 2 for device Power supply

LAN CONNECTION

IP: 192.168.1.xxx

(ETH1) - Ethernet Port for LAN connection (PoE)

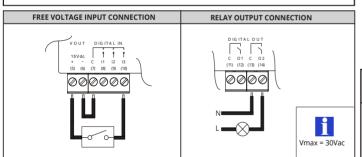
IP: 192 168 1 1 IP: 192.168.1.110

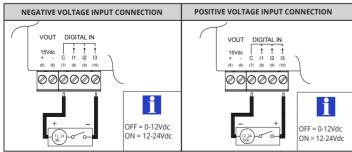




To avoid damage to the device apply to the terminals (15) and (16) a voltage equal to 24 Vdc +/- 10% or 24 Vac (min 20 Vac, max 40 Vac)

Before makin any connections, turn off the power, remove the terminals, complete wiring and then plug terminals with the correct position





3. FIRST SETUP VIA DISPLAY



On first use of the device:

- 1) Connect the datalloger to SIN.EQLC1, then the SIN.EQLC1 to terminals as indicated in the manufacturer's guide
- 2) Enter the default password 000000 to access the menu 3) Press OK at the menu "SEARCH" and follow the instructions given below

5. TECHNICAL DATA

Temperature range:

Protection Grade: Mounting: Dimensions: Power supply: Consumption: Relays max load:

Operative: -20°C ... +55°C Storage: -25°C ... +65°C IP 20 (EN60529) 35 mm DIN Rail (EN60715) 4 DIN modules (90x72x64,5) 24Vdc +/- 10% or 24Vac (min 20Vac, max 40Vac) or PoE 3W

5A@30Vdc (Resistive Load) 2A@30Vdc (Inductive Load cosfi=0.4:L/R=7ms)







TROUBLESHOOTING

1) The datalogger does not turn ON:

- Check with the aid of a multimeter that the voltage between the terminals (15) and (16) is 24Vdc +/- 10% or 24Vac (min 20Vac, max 40Vac)
- In case of power supply from the LAN (Power Over Ethernet) verify that the LAN cable is connected to the PoE switch

2) The display is off:

After 10 minutes of inactivity, the display turns off. To turn on again, press any key

3) Not all meters are detected:

- Verify that not detected meters support 2400bps default communicaton speed and addressing for primary and secondary address
- Verify that the maximum number of allowed wired meters hasn't been already configured

4) None of the meters is detected:

- Check the datalogger connection to the M-Bus interface (SIN.EQLC1)
- Check the M-Bus interface connection (SIN.EQLC1) to the meters
- Verify that there are more than 5 mt of cable between the datalogger and the M-Bus interface (SIN.ÉQLC1)
- Check for short circuit on M-Bus wiring

5) Unable to access the webserver:

- Verify that your PC has an address in the same network as the datalogger. The datalogger default IP address is 192.168.1.110, then the PC must have a 192.168.1.xxx address different from
- Verify that there is no firewall blocking the TCP/IP 80 port