

### QE-BR-ETH485

Bridge ModBus TCP (Ethernet) - ModBus RTU (RS485)

# **INTRODUCTION**

### **Product description**

The QE-BR-ETH485 is a ModBus TCP bridge (Ethernet server 10/100) to ModBus RTU (RS485 master). It accepts up to 10 clients, and is equipped with an integrated WEB page for configuring the various communication parameters.



#### **Product features**

- Ethernet 10/100 Mb/s
- RS485 up to115200 bit/s
- Isolation at 1500V between power supply, RS485, Ethernet
- Indication LED of Communication, Power, Fail
- Max number of client Ethernet = 10
- Compliant: EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005; EN61010-1/2010.

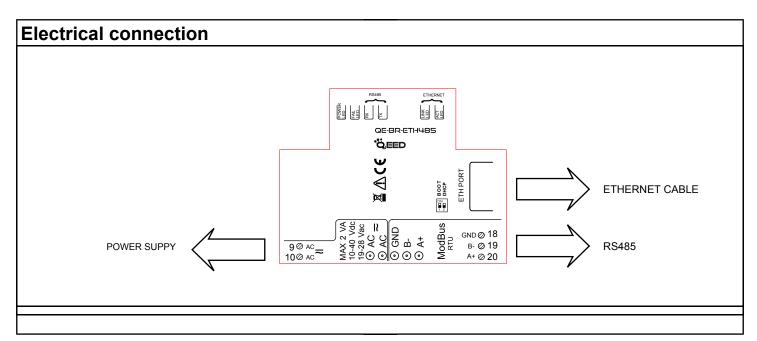


| GENERAL SPECIFICATIONS              |  |  |  |  |
|-------------------------------------|--|--|--|--|
| Supply specification                |  |  |  |  |
| Voltage AC/DC                       | 10 - 40 V <sub>DC</sub><br>19 - 28 V <sub>AC</sub> |  |  |  |
| Power Consumption                   | < 1,5 W  |  |  |  |
| Specification of communication port |  |  |  |  |
| Ethernet                            | 10 - 100 Mb/s (MAX 10 Client)                      |  |  |  |
| RS485                               | 1200 - 115200 b/s (MAX 247 slave)                  |  |  |  |
| Thermal specification               | <u> </u>   |  |  |  |
| Worcking temperature                | -20°C +60°C  |  |  |  |
| Storage temperature                 | -40°C +85°C  |  |  |  |
| Mounting                            | į  |  |  |  |
| Mounting                            | DIN rail (eventually with T-BUS)                   |  |  |  |
| Terminals                           | Pitch 3,5mm  |  |  |  |



## **INSULATIONS BETWEEN INPUTS AND OUTPUTS**

|              | Power SUpply | Ethernet | RS485  |
|--------------|--------------|----------|--------|
| Power Supply |              | 1,5 KV   | 1,5 KV |
| Ethernet     | 1,5 KV       |          | 1,5 KV |
| RS485        | 1,5 KV       | 1,5 KV   |        |



| DIP SWITCH | SETTINGS |   |
|------------|----------|---|
| DIP 1      | DIP 2    |   |
| OFF        | OFF      | Communication parameters from FLASH                             |
| ON         | OFF      | Default communication parameters (192.168.178.29; 115200,8,N,1) |
| OFF        | ON       | DHCP Enabled  |
| ON         | ON       | BOOT LOADER enabled (for firmware update)                       |

| LED           |                  |  |  |  |
|---------------|------------------|--|--|--|
| Function      | State            | Meaning  |  |  |
| Power (green) | Power On         | Power supply ON  |  |  |
| Fail (yellow) | Blinking<br>Fast | Ethernet communication in progress (or Bootloader enabled, see DIP Switch) |  |  |
|               | Blinking<br>slow | Waiting for Ethernet communication   |  |  |
| RX (red)      | Blinking         | The system is receiving data from the RS485                                |  |  |
| TX (red)      | Blinking         | The system is sending data from the RS485                                  |  |  |
| LINK (yellow) | On               | Connection to Ethernet network   |  |  |
| ACT (yello)   | Blinking         | Activity on Ethernet network   |  |  |