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# MDB-E

# Ethernet – serial bridge



# **1. DESCRIPRTION**

MDB-E is a converter between Ethernet and RS232 / RS485 serial. It converts ModBus RS232 /RS485 – ModBus TCP / IP, connecting the devices to the Ethernet network. Serial ports are galvanically isolated.

# Width

1 module, 18 mm

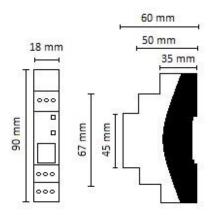
## **Power supply**

9-32VDC

## Average consumption

30mA

# 2. DIMENSIONAL DATA



# 3. TECHNICAL FEATURES GENERAL

- Ethernet 10/100 MB/s
- RS485 optoisolated
- RS232 optoisolated (Rx, Tx, GND)
- Serial communication speed up to 115.200 bit/s
- NFC for configuration

## MECHANICAL

- IP41 plastic case for DIN rail
- Size: 18 x 90 x 60 mm (1 DIN module)

## SOFTWARE

- ModBus TCP/ModBus RTU conversion on RS485/RS232
- RS485/RS232 Modbus RTU conversion
- Bidirectional protocol conversions on all channels
- Easy and fast configuration through APP
- Default parameters:
- IP:192.168.1.100 DHCP disabled

9600 bps

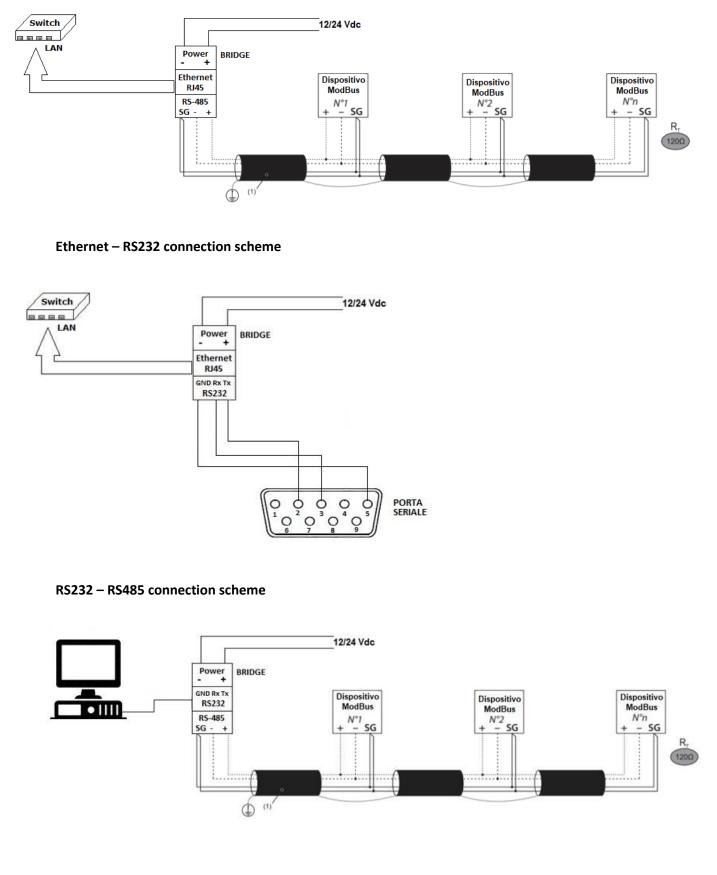
## ENVIRONMENTAL

- Operating temperature: -20°C ÷ 60°C
- Relative humidity: from 0 to 80% without condensation
- Storage temperature: -40° ÷ + 80°

# MDB-E Ethernet – serial bridge

# 4. CONNECTION

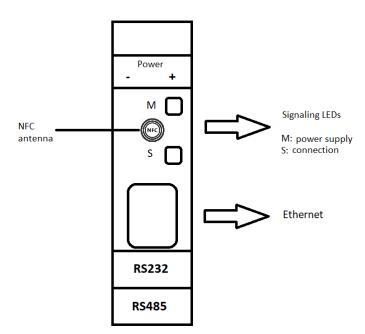
# Ethernet – RS485 connection scheme



# MDB-E Ethernet – serial bridge

# **5. GENERAL FEATURES**

## Front marking



## Signaling LEDs

Led	Led status	Meaning
М	BLU (flashing)	Start
S	GREEN	Ethernet connected
S	GREEN (flashing)	Data transmission
S	RED	Ethernet NOT connected

## 6. COMPLIANCE AND CERTIFICATIONS

#### **Compliance with standards**

- Compliance with Directive on electromagnetic compatibility (EMC) n° 2014/30/EU;
- Compliance with low voltage directive n° 2014/35/EU;
- Electromagnetic compatibility: Emission test according to EN 61000-6-1 / EN 61000-6-2; Immunity test according to EN 61000-6-3 / EN 61000-6-4;
- Electrical safety: EN50428 (HBES)

#### Environment respect - Compliance with EU directives

- Compliance with Directive 2011/65/UE as amended by Directive 2015/863 (RoHS 2) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- Compliance with REACH regulation (1907/2006): at the date of the publication of this document no element of the SVHC substance list (updated on 27/06/2018) is present in these products.
- WEEE directive (2012/19/EU): the sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

#### **Plastic materials**

- Halogens-free plastic materials.
- Marking of parts according to ISO 11469 and ISO 1043.

#### Packaging

 Design and manufacture of packaging compliant to decree 98-638 of the 20.07.98 and also to directive 94/62/CE.