

# Converter MBUS to RS485 for 60 devices

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User manual

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## 1. Device parameters

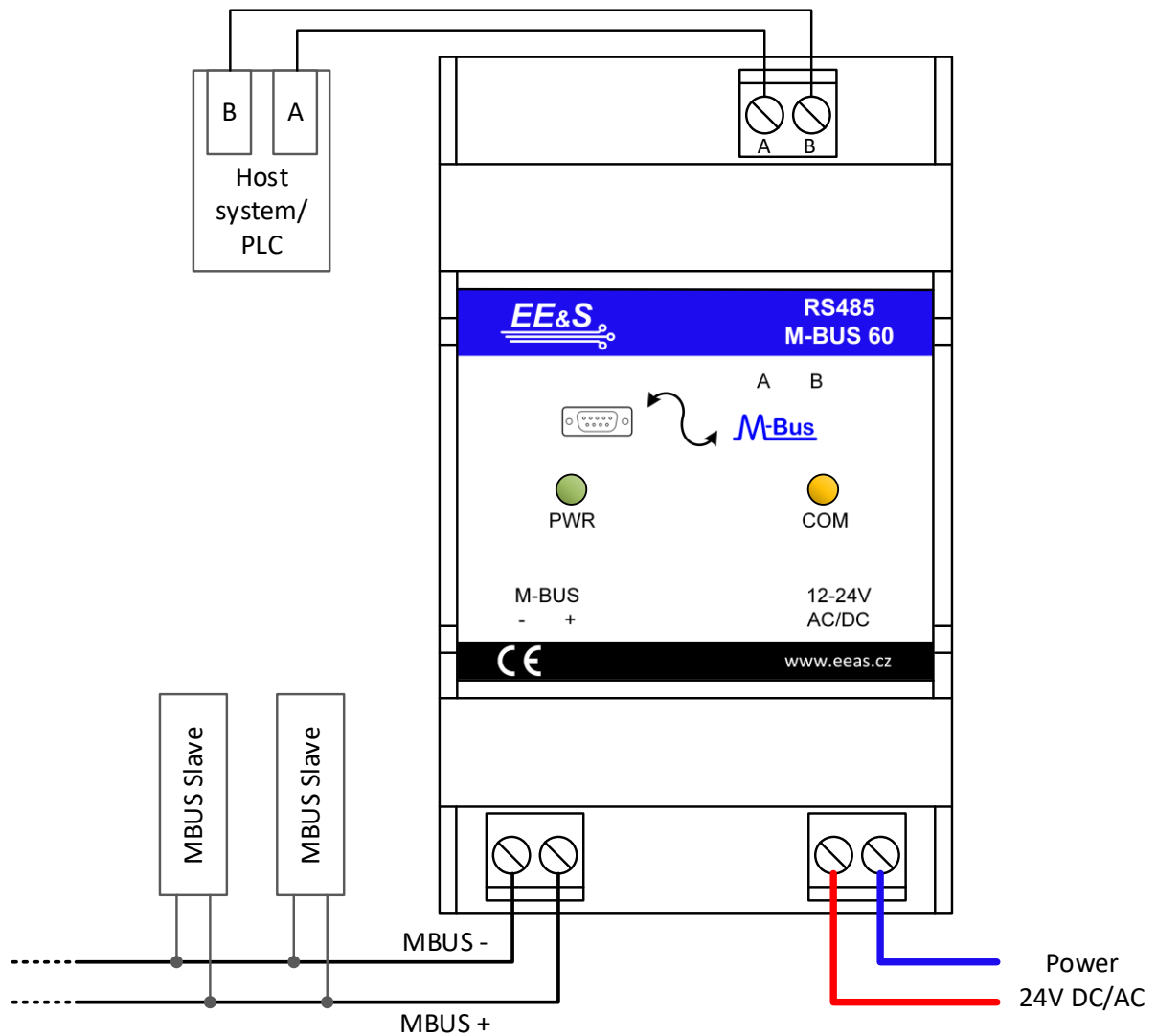
Power supply	12 – 24 V AC/DC*
Power consumption with no slave connected	0,8 W
Power consumption with 60 slaves connected	4,5 W
Maximum number of MBUS slaves	60
Maximum MBUS cable length (300 baud)	1000 m
Dimension	93 x 54 x 61 mm

\* preferably DC for better efficiency performance

## 2. Factory settings

Not applied.

### 3. Front view and connection schematic



The device is equipped with two LEDs. The green LED labeled as “PWR” indicates the presence of the power supply with a steady light. The yellow LED labeled as “COM” flashes when a packet is sent to or received from the MBUS line.

## 4. Description

The converter translates packets between MBUS physical layer and the RS485 line. The payload from RS485 is sent transparently to the MBUS and responses from the MBUS slaves are sent to the R485 line in return. Baudrate, parity, and other RS485 parameters depend on the host system settings, and it is not necessary to adjust any settings to the converter. The 120R termination resistor is included in device.

The device is powered by a power supply in the range of 12 to 24VDC/VAC and can communicate with up to 60 MBUS slave devices. However, the DC power supply is recommended due to better efficiency parameters. The maximum length of the cable segment connected to the slave can be up to 1000 meters with a communication speed of 300 bps.

## Document updates

[illegible]



**On behalf of  
Embedded Electronics & Solutions, s.r.o.  
we would like to thank you.**

**Manufacturer:**



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