

# MM20-24E

## Interface converter

### Highlights

- Transparent conversion of serial and Ethernet interfaces into M-Bus interface
- Readout of up to 20 M-Bus slave devices
- RS-232, RS-485 and Ethernet interface
- Ethernet parameters setup through web interface
- Short circuit protection of M-Bus line
- LED indications
- Galvanic isolation of Ethernet line
- Wide power supply range 10-28Vdc
- 35mm DIN rail mounting



### Description

MM20 is interface converter intended for feeding and transparent reading of M-Bus slave devices. Converter has RS-232, RS-485 and Ethernet interfaces, where the lowest priority is dedicated to RS-232 and the highest to Ethernet interface. It is designed to withstand short circuit on M-Bus line. LED indicators show status and activity of M-Bus line, slave devices and Ethernet port. Power supply has wide range, from 10 up to 28Vdc. Device is suitable for 35mm DIN rail mounting.

### Application

DECODE MM20 acts on M-Bus line as standard M-bus master device which can sustain up to 20 M-Bus slave devices. It can be used for local or remote reading of calorimeters, water meters, electricity meters and other devices which fulfil M-Bus protocol. Converter is fully adjusted for industrial communications, automation processes and telemetry. For increasing system capacity, it is possible to connect more than one MM20 converter in parallel.

## Technical specification

<b>M-Bus interface</b>	M-Bus master, up to 20 M-Bus slave devices, transparent protocol, speed 300-9600Baud; Connection: Pluggable screw clamp, RM 5mm, 2.5mm <sup>2</sup>
<b>Serial interface</b>	RS-232 DCE, RS-485; Connection: DB9 female
<b>Ethernet interface</b>	IEEE 802.3, 10/100 Base-T, UDP and TCP/IP; Connection: RJ45
<b>LED indicators</b>	ON, Short, Slave, Ethernet
<b>Overvoltage protection</b>	tranzorb on RS-485 line and M-Bus line
<b>M-Bus port</b>	quiescent current: 0-30mA, overcurrent: 50-70mA with restart, line voltage: 30.5V $\pm$ 5%, internal resistance <100Ohm
<b>M-Bus line length</b>	max 12km@300Baud, min 1km@9600Baud, cable JYSTYnx2x0.8
<b>Power supply</b>	10 – 28VDC, 6Wmax
<b>Power supply connection</b>	Pluggable screw clamp, RM 5mm, 2.5mm <sup>2</sup>
<b>Working temperature</b>	0 do 55°C
<b>Dimension</b>	95x35x87mm
<b>Mounting</b>	35mm DIN rail

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