



M-BUS LEVEL CONVERTER 60

The 1.ETRSEQ.0003 M-Bus level converter allows interfacing to a network of devices compliant with the M-Bus standard (EN 13757-2 Physical Layer) up to a maximum of 60 slaves.

It is designed to be used in conjunction with 1.ETRSEQ.0101 to extend the MBUS network and connect additional devices, or as a traditional M-Bus repeater.

Additionally it can be used together with a specific PC software for reading data on site.

FLEXIBLE AND COMPLETE

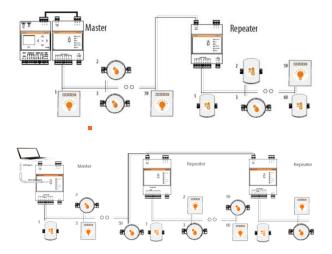
It can be used as a master in an M-Bus network connected through the dedicated port to the data logger, or as a repeater in order to extend an existing M-Bus network with up to 60 additional devices.

Its modularity allows the optimization of the reading system cost.

In "MASTER" mode, the device allows data loggers (for example 1.ETRSEQ.0051) to communicate with M-Bus devices connected to the M-Bus Master port. The data logger must be connected to the level converter via the dedicated bus.

In "REPEATER/SLAVE" mode, the device works as a signal amplifier/regenerator, thus allowing for the extension of an existing M-Bus network in terms of distance and total devices connected.

CONNECTION EXAMPLES







ELECTRICAL CHARACTERISTICS

Rated voltage

Installation category Rated consumption Maximum consumption

MECHANICAL CHARACTERISTICS

Operating temperature range Storage temperature range Dimensions Installation type Protection rating Connections

M-BUS SECTION

Reference standard Baud rate M-Bus-RS232 isolation M-Bus-USB isolation Max. number of M-Bus devices Max. number of repeaters

Transmission speed

Bus voltage

Short circuit protection

SIGNALING LEDs

USB Activity (orange LED) TXD (green LED) RXD (green LED) M-Bus ERROR (red led) M-Bus Ready (green led) POWER (red led)

M-BUS LEVEL CONVERTER 60

24 Vdc +/-10% (rev. HW 1.0 or if not specified) 24 Vdc +/-10%, 24 Vac (min. 20 Vac, max. 40 Vac) for HW 2.0 versions Class III 3 W + (0.07* number of M-Bus slave) 12 W

-10 °C to +55 °C
-25 °C to +65 °C
90 x 71 x 62 mm (H x L x D) – DIN
35 mm DIN bar (EN 60715)
IP20 (EN 60529)
M-Bus slave: for connection as a repeater / extender
M-Bus master: for the connection to the M-Bus meters
Mini-USB Type B: for connection to PC software

EN 13757-2 (Physical Layer) Min. 300 bps – Max. 9600 bps 1 KV AC 1 KV AC 60 Unlimited in stand-alone mode for reading current data via an RS232 or USB connection Four (4) as a slave of data logger (1.ETRSEQ.0051) Minimum: 300 bps Typical: 2400 bps Maximum: 9600 bps Min. 21 V Max. 42 V Yes

Connection status with PC software Transmission status on the M-Bus master Reception status from the M-Bus master Indicates a short circuit or the overloading of the M-Bus Indicates the correct polarization of the M-Bus Indicates the correct power supply of the device

