



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 developed to be used in combination 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 with a specific PC software for reading data on site.

FLEXIBLE AND COMPLETE

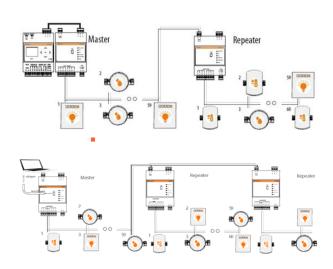
It can be used as a master in an M-Bus network connected through the dedicated port to the data logger, or as a repeater in order to extend an existing M-Bus network with up to 60 additional devices.

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 the M-Bus devices connected to the M-Bus Master port. The data logger must be connected to the level converter via the dedicated port.

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 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

Installation category Class III

Rated consumption 3 W + (0.07* number of M-Bus slave)

Maximum consumption 12 W

MECHANICAL CHARACTERISTICS

Operating temperature range -10 °C to +55 °C Storage temperature range -25 °C to +65 °C

Dimensions 90 x 71 x 62 mm (H x L x D) – DIN **Installation type** 35 mm DIN bar (EN 60715)

Protection rating IP20 (EN 60529)

Connections M-Bus slave: for connection as a repeater / extender

M-Bus master: for connection to M-Bus meters
Mini-USB Type B: for connection to PC software

M-BUS SECTION

Reference standard EN 13757-2 (Physical Layer) **Baud rate** Min. 300 bps – Max.9600 bps

M-Bus-RS232 isolation1 KV ACM-Bus-USB isolation1 KV ACMax. number of M-Bus devices60

Max. number of repeaters Unlimited in stand-alone mode for reading current data via an RS232 or USB

connectior

Four (4) as a slave of data logger 1.ETRSEQ.0051

Transmission speed Minimum: 300 bps

Typical: 2400 bps Maximum: 9600 bps

Bus voltage Min. 21 V

Max. 42 V

Short-circuit protection Yes

SIGNALING LEDs

USB Activity (orange LED)Connection status with PC softwareTXD (green LED)Transmission status on the M-Bus masterRXD (green LED)Reception status from the M-Bus master

M-Bus ERROR (red led) Indicates a short circuit or the overloading of the M-Bus

M-Bus Ready (green led)

Indicates the correct polarization of the M-Bus

POWER (red led)

Indicates the correct power supply of the device



Rev. 1 02/21 Subject to technical change