

M-BUS LEVEL CONVERTER 250



The M-Bus level converter 1.ETRSEQ.0006 allows interfacing to a network of M-Bus compliant devices (EN13757-2 Physical Layer) and supports up to 250 slaves*.

It is developed to be used in combination with 1.ETRSEQ.0051 dataloggers. It can be used in stand-alone mode via RS232 / RS485 port or as an M-Bus repeater.

* Slave means an M-Bus load unit (≤ 1.5 mA)

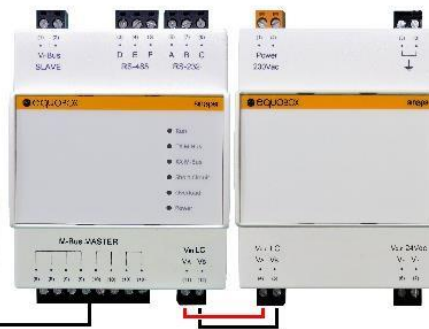
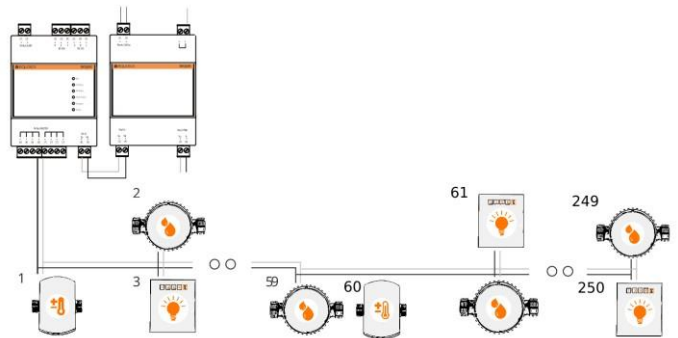
FLEXIBLE

It can be used as master in an M-Bus network of 250 devices connected on a single line. It can be connected:

- via RS-232 / RS-485 serial port to a data logger or software
- via M-Bus slave port as a repeater to extend an existing M-Bus network by 250 additional devices.

The device has a 24V DC power output that can supply a 1.ETRSEQ.0051 datalogger.

CONNECTION EXAMPLE



 **Datalogger & Software**
RS232
RS485
M-Bus Slave

ELECTRICAL CHARACTERISTICS

Power Supply	110 ... 240 VAC, 47 ... 63 Hz through dedicated power supply included
Installation category	II Class as per EN 62368-1
Rated consumption	6W + (0.07W * number of M-Bus slave)
Maximum consumption	45W, 45 VA Vout: DC 24V, max 15 VA

MECHANICAL CHARACTERISTICS

Operating temperature range	From -20°C to +55°C
Storage temperature range	From -25°C to +65°C
Materials and colours	PC+ASA, RAL9010 (white)
Dimensions	(2x) 110x71x62 mm (HxLxD) – including terminals
Installation	35mm DIN bar (EN60715)
Protection degree	IP20 (EN60529) MOD 07 AA Rev. 0
EU conformity (CE)	MOD 07 AA Rev. 0
Connections	110 ... 240 VAC power supply Functional Earth Vin LC/Vout LC: Power supply for level converter/repeater Vout 24 V DC (Max 15 VA) M-Bus Slave: for connection as a repeater/extender RS-485: connection for datalogger and software RS-232: connection for datalogger and software M-Bus Master: for connection to the M-Bus meter network Firmware update button
Buttons	

M-BUS SECTION

Reference standard	EN13757-2 (Physical Layer)
Baud rate	Min. 300bps – Max. 9600bps
Max number of M-Bus devices	250 ($\leq 1,5$ mA)
Max number of Repeaters	Up to 6 with parallel connection
Voltage on the Bus	39 V
Short-circuit protection	Yes
Galvanic isolation	Yes (See EN13757-2)
Galvanic isolation M-Bus Master - M-Bus Slave	Yes
Echo Cancellation	Yes
Collision Detect with Break-Signalling	Yes

SIGNALING LEDs

Run (Green Led)	Operating status of the device
TX M-Bus (Green Led)	M-Bus Master transmission status
RX M-Bus (Orange Led)	M-Bus Master reception status
Short Circuit (Red Led)	Indicates a short circuit of the M-Bus Master line
Overload (Orange)	Indicates overload of the M-Bus Master line
Power (Green Led)	Indicates the correct power supply of the device

PACKAGE

Level Converter + QuickStart Guide	0.166 Kg
Packaging	0.055 Kg

NATIONAL SAFETY REGULATIONS

Failure to comply with national safety regulations may result in personal injury and property damage. Observe national provisions and comply with the appropriate safety regulations. This equipment is not suitable for use in locations where children are likely to be present.