



## Data sheet for M-Bus repeater

In general, repeaters work as signal amplifiers to transfer M-Bus signals over long distances or to refresh a "ground down" signal. As a result, larger networks and longer distances can be used and a higher number of meters can be connected to the M-Bus than the existing master enables. The M-BUS repeater combines a slave interface to the logical bus master on the one side and an own master interface to the slaves or meters on the other side. As the repeater powers its subnet, the physical load of the logical master is clearly reduced. The repeater forwards the communication data to the other network.

Our M-Bus repeater is an ideal extension for our data concentrator series MUC.easy<sup>plus</sup> and MUC500. What if more than the meters directly supported on the M-Bus to be read out? We offer also a repeater MBUS-REP500 with 500 unit loads. With respect to general requirements like readout time, this offers the opportunity to enlarge the M-Bus network and integrate more meters using only one single central gateway.

The M-Bus repeater is available for 125, 250 and 500 unit loads.

All the products come in a housing for DIN rail mounting with a width of only 54 mm (3 modules width). They are supplied by external 12 .. 36 VDC, so a wide range of power supplies can be used.



### Technical data

<b>Characteristics</b>	Repeater for reconditioning the bus signals by an additional bus injection, physical extension of existing installations, further slaves can be added to the M-Bus master;  M-Bus is short circuit protected (self-resetting fuse);  Status LEDs signaling transmission, receiving and collisions on the M-Bus;  M-Bus slave and M-Bus master are galvanically isolated
<b>Power supply</b>	12-36 VDC, max. 1500 mA (depending on bus load);  Current consumption M-Bus slave 2 UL
<b>Interfaces</b>	M-Bus acc. EN 13757-2, screw clamps, master and slave;  Umark = 40 V; Uspace = 27 V
<b>Dimensions</b>	54 x 90 x 60 (W x H x D) in mm, 3 modules width
<b>Mounting / Protection class</b>	DIN rail, 35 mm;  IP20
<b>Maximum baud rate</b>	9600 bps
<b>Numbers of connectable meters</b>	Max. 125 UL (MBUS-REP125) Max. 250 UL (MBUS-REP250) Max. 500 UL (MBUS-REP500)
<b>Weight</b>	Ca. 130 g
<b>Wiring cables</b>	2.5 mm <sup>2</sup> solid / stranded wire;  1.5 mm <sup>2</sup> stranded wire with ferrules

