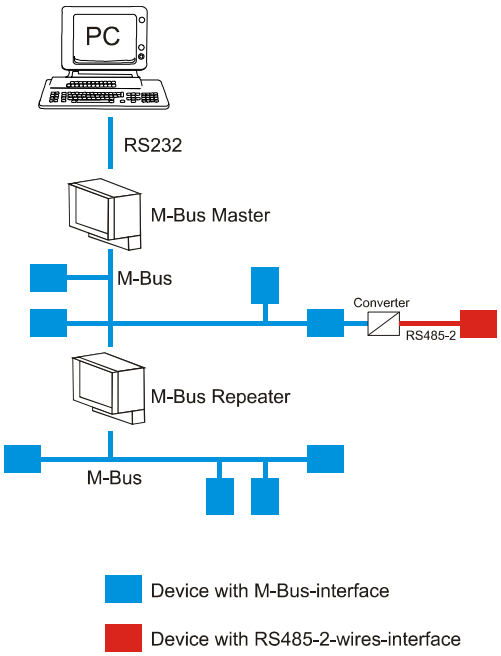
General

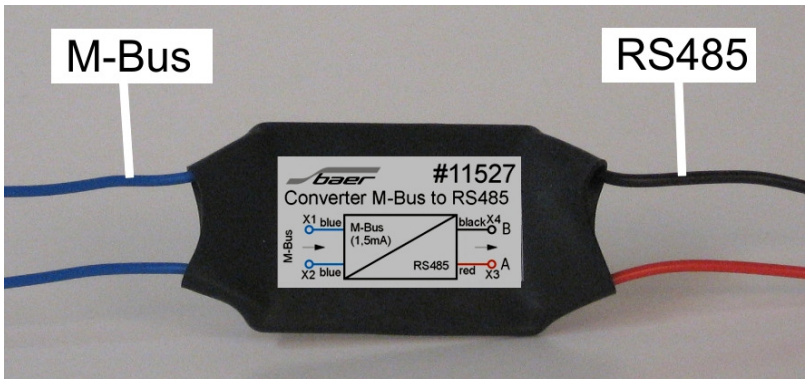
The M-Bus system is a data transmission system for acquiring, evaluating, optimizing and controlling energy and process data. Modular components permit networking of a large number of different energy meters and computer-controlled terminals. The high degree of noise immunity, even in noisy environments, ensures reliably and error-free measured value transmission. Via modem interfaces, it is also possible to cover large distances to connect modular expansions or complex substation systems. The M-Bus system is the system preferred by operators supplying numerous consumers (e.g. industry and technology parks, trade fairs, building managements, etc.).



Brief Description

The converter is used to adapt physically two interfaces:

- M-Bus-Interface passive: function „Slave“
- RS485 2 wires interface: networking of one or more meters (max. 8)

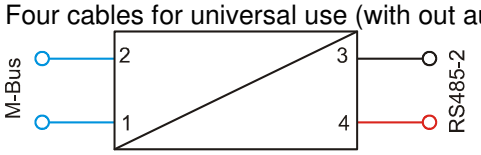


Converter M-Bus to RS485 2 wires
Data Sheet

Bär Industrie-Elektronik GmbH · Rathsbergstr. 23 · D-90411 Nürnberg · Phone +49 911970590 · Fax +49 9119705950

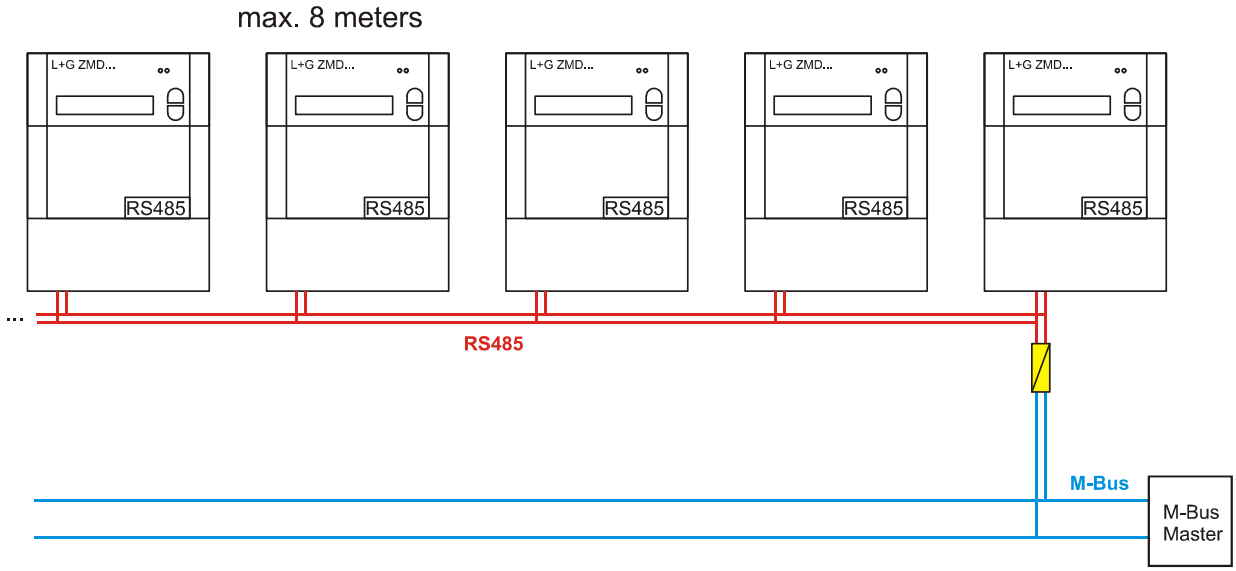
Terminal assignment

Four cables for universal use (with out auxiliary voltage):



1 (blue): M-Bus
2 (blue): M-Bus
3 (black): B–
4 (red): A+

Example



Technical Data

Housing:	Board with four cables
Degree of protection:	IP30
Dimensions:	W = 60mm, H = 10mm, D = 35mm
Protection class:	2
Auxiliary voltage:	none
Number of terminals:	Four cables á 25cm
Interface:	• M-Bus passive according to DIN EN 1434-3, M-Bus standard load: max. 1,5mA from M-Bus M-Bus voltage: min. 30V • RS485 2 wires half-duplex to drive up to 8 standard loads • With out galvanic separation
Baud rate:	2400 to 9600 Baud
Resistor terminator (R_t):	not permitted
LED:	none
Order number:	#11527
Extent of delivery:	Converter-board with four cables á 25cm
Accessories:	- M-Bus Master or Mini-Master - M-Bus Repeater - Cable - Software