



Item	Item-No.
MBUS201	00019766-00

## MBUS201-Master M-Bus-Master Adapter

Energy meters (gas, heat, output, water etc.) are required in power plants, and in combined heat and power generation in particular, for regulation, as well as accounting. The M-Bus standardized in EN 61334-4-1 is highly prevalent in Europe for the connection of these meters. The OSI model, if M-Bus is the physical layer, the data link according to IEC 870 and the application layer according to EN 1434-3 are specified for this protocol.

An integrated solution is provided by a rugged and easily installable M-Bus adapter and its convenient integration as a fieldbus in software communication.

The MBUS201 master enables easy connection of a serial RS232 interface on M-Bus via an adapter.

The M-Bus is a widely used fieldbus in accordance with EN 13757 for reading out consumption data from meters (electricity, water, gas, heat). Transmission is serial via voltage and current modulation on a two-wire line that is protected against polarity reversal.

The M-Bus protocol is integrated as an intuitively configurable fieldbus, and is addressed via the UFB (Unified FieldBus ) software interface.

- Max. 4 MBUS201 masters per M1 controller
- M-Bus protocol implemented as fieldbus
- Max. 5 meters (slaves) per master
- Adapter can be inserted directly on the DSUB connector
- Integrated M-Bus power supply
- Interfaces M-Bus and RS232 are galvanic isolated
- LED display for collision detection and power supply
- Data transmission at 300 to 9600 bps

<b>MBUS201</b>		
<b>Interfaces</b>		
M-Bus		In accordance with DIN EN 13757-2
	Connection	Spring-force terminal in housing, shield support
	Number of nodes	Max. 5 counters (slaves) per master
	Data rate	300 to 9600 bps
RS232		In accordance with EIA-232, D-Sub 9-pin, socket, no hardware handshake
Power supply		24 V ( 20 to 30 VDC)
Current consumption		Max. 0.25 A
Reverse polarity protection		Yes
<b>Status displays</b>		
Power supply		LED green
Collision detection- M-Bus		LED yellow
<b>Housing</b>		
Dimensions (W x H x D)		32 x 60 x 15 mm
Nickel-plated zinc die-cast		
Mounting		Hex socket (size 2.5) with ball head
<b>Approvals / Certificates</b>		
General		CE, CCC
<b>Ambient conditions</b>		
Operating temperature		-30 to +60 °C
Rel. humidity, operation		5 to 95 % without condensation
Storage temperature		-40 to +85 °C
Rel. Humidity, storage		5 to 95 % without condensation

<b>Order Codes</b>		
Item	Item No.	Description
MBUS201	00019766-00	M-Bus master adapter; energy measurement fieldbus EN13757; M-Bus interface to RS232 DSUB 9; 24V power supply; up to 9,6kbit/s