



## MBUS201-Master Fieldbus Module 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 RS-232 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 occurs serially via voltage and current modulation 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.

### Features

- Max. 4 MBUS201 masters per M200 controller
- M-Bus protocol implemented as fieldbus
- Max. 5 meters (slaves) per master
- Adapter can be inserted directly on the D-sub connector
- Integrated M-Bus power supply
- M-Bus and RS-232 interfaces are galvanically isolated
- LED display for collision recognition and power supply
- Data transmission at 300 to 9600 bps

Part type designation	Part number
MBUS201	00019766-00

**MBUS201**

Interfaces		
M-Bus	Acc. DIN EN 13757-2	
	Connection	Spring-cage terminal block in housing, shield support
	Number of nodes	Max. 5 meters (slaves) per master
	Data rate	300 bps to 9600 bps
RS-232	In accordance with EIA-232, D-Sub 9-pin, socket, no hardware handshake	
Power supply	24 V ( 20 V DC to 30 V DC)	
Current consumption	Max. 0.25 A	
Reverse polarity protection	Yes	
Status indications		
Power supply	LED green	
Collision detection M-Bus	LED yellow	
Housing		
Dimensions (W x H x D)	32 mm x 60 mm x 15 mm	
Nickel-plated zinc die-cast		
Mounting/Installation	Hex socket (size 2.5) with ball head	
Approvals/Certificates		
General	CE, UKCA	
Environmental conditions		
Operating temperature	-30 °C to +60 °C	
Relative humidity, operation	5 % to 95 % noncondensing	
Storage temperature	-40 °C to +85 °C	
Relative humidity, storage	5 % to 95 % noncondensing	

**Order data**

Part type designation	Part number	Description
MBUS201	00019766-00	M-Bus master adapter; EN 13757; M-Bus interface to RS-232 adapter; 24 V power supply; up to 9.6 kbit/s