

M-Bus Center

M-Bus data logger for automatic readout of up to 250 loads and continuous data acquisition for energy management according to ISO 50001

Your benefits

- Integrated M-Bus level converter for 20 / 60 / 120 / 250 M-Bus loads
- Web compatible, remote readout via Web browser
- Ad-hoc analysis and validation
- Professional data processing
- Visualisation of consumption makes energy consumption transparent
- Firmware update and backup via Web interface
- System connection via OPC UA and BACnet IP

Application

- Fast and simple measurement data acquisition, incl. integrated statistical functions
- Integration of measurement data in (building) management systems or other peripheral systems
- Suitable for heat, water, gas and electric meters with M-Bus
- Performance monitoring and energy management

Features

- M-Bus data logger for a max. of 250 loads
- Data logging on micro SD card
- Integrated M-Bus level converter/master
- Supports all M-Bus devices according to EN 13757-2, -3
- Automatic search for M-Bus devices
- Visualisation of consumption per day / week / month
- Backlit LCD display 60x30 mm
- Compact design: Dimensions (LxWxD) 90x90x67 mm (5 TE)
- Integrated website via IP address
- Load profile for all energy values
- Data export in CSV file and FTP upload of measured values
- Multi-user compatible
- Firmware update via TCP/IP
- System connection via OPC UA and BACnet IP
- **CE** Conformity (MID)

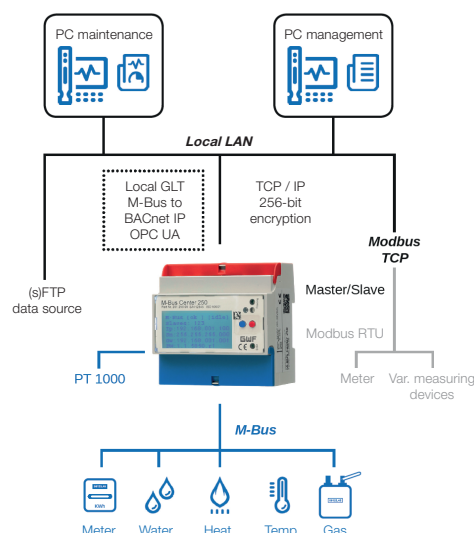


Fig. 1: System components for BACnet integration

Technical data

Mechanics	
Dimensions (HxWxD)	90 x 90 x 67 (5 DIN modules)
Weight	Approx. 400 g
Mounting	DIN rail (DIN 50022), 35 mm
Housing material	Polycarbonate, recyclable, non-combustible
Protection class	IP 20

Terminals	
Interfaces	1 x USB type A 1 x USB type B 1 x Ethernet 10/100 base RJ45
Inputs	3 x M-Bus 4 x S0 pulse input 2 x temperature PT1000
System connection	BACnet IP and OPC UA
Outputs	2 x relay
Operating voltage	24 V DC
Current consumption	Max. 1 A

Product information	
Number of M-Bus slaves	Max. 20 / 60 / 120 / 250 (per 1.5 mA)
Evaluation	Web server / Diagram suitable for ISO 50001
M-Bus level converter	Integrated high performance level converter
Data export	.csv and JSON file, other formats available upon request
System connection	Via BACnet IP and OPC UA
Data memory	Micro SD card
Firmware update	Yes, possible via user interface
Backup	Yes, possible via user interface
Configuration	Local and remote configuration with Web server

Product information	
Temperature range	0-55 °C
M-Bus baud rate	300, 600, 1200, 2400, 4800, 9600
M-Bus quiescent current	Max. 375 mA (250 x 1.5 mA)
Compatibility	Heat, water, gas and electric meters with M-Bus according to EN 13757-2, -3
Electrical isolation, short-circuit and overload protection	Yes
Safety	CE Mark
EMC measurement	EN 61000-6-2
Interference immunity	EN 61000-6-3
M-Bus standard	EN 13757-2,-3
Energy management	Suitable for ISO 50001
BACnet IP	B-ASC zertifiziert
Display	Backlit LCD display
Weight	Approx. 400 g
Mounting	35 mm DIN rail
Housing	Polycarbonate, recyclable, non-combustible