

CMe3000

M-Bus Gateway TCP/IP

Your benefits

- Transparent mode of operation:
  Unchanged transfer of read-out data to the communication device
- TCP/IP interface for communication with readout infrastructure:
  Ease of installation, especially when M-Bus measuring instruments are distributed over several floors or buildings
- IR interface for modular extension:
  No need to replace the M-Bus TCP/IP Master when connecting additional measuring points, investment protection
- 100 - 240 V AC mains power required:
  No extra power supply necessary
- Operating status display via LED:
  Easy on-site analysis and troubleshooting

Applications

- Remote supply and remote reading of M-Bus end devices over Ethernet

Properties

- Signal converter from M-Bus to TCP/IP
- DIN mounted, modular and expandable - future proof solution
- Several extension modules (additional M-Bus loads) which are mounted to the right (IR interface) of the module are available
- Intelligent watchdog functionality to enable stable operation during a long time
- Supports static IP addressing as well as dynamic IP addressing (DHCP)
- Internal HTTP web server for configuration with any web browser – no additional software required
- Readout via virtual COM ports - existing PC software can be used
- M-Bus protocol according to EN 13757-3
- Transfer rates M-Bus: 300, 2400 Bit/s
- M-Bus short-circuit protection
- 100 - 240 V AC power supply
- Operating indicator with LED

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Technical Data

	M-Bus TCP/IP Master	Extension modules for CMe3000			
	CMe3000	CMeX10	CMeX11	CMeX12S	CMeX13S
Mechanics					
Dimensions (HxWxD)	90 x 36 x 65 mm (2 DIN-Modules)	90 x 36 x 65 mm (2 DIN-Modules)		90 x 108 x 65 mm (6 DIN-Modules)	
Weight	app. 100 g	app. 100 g		app. 220 g	
Installation	Hat rail TS35 (EN 50022) / DIN mounted	Hat rail TS35 (EN 50022) / DIN mounted		Hat rail TS35 (EN 50022) / DIN mounted	
Casing material	Polyamid	Polyamid		Polyamid	
Protection class	IP20	IP20		IP20	
Terminals					
Power supply	L, N screw cramp cable 0,75 - 2,5 mm^2 0,5 Nm tightening torque	L, N screw cramp cable 0,75 - 2,5 mm^2 0,5 Nm tightening torque		L, N, earth screw cramp cable 0,75 - 2,5 mm^2 0,5 Nm tightening torque	
M-Bus	Pin terminal solid wire Ø 0,6 - 0,8 mm	Pin terminal solid wire Ø 0,6 - 0,8 mm		Pin terminal solid wire Ø 0,6 - 0,8 mm and screw cramp cable 0,25 - 2,5 mm^2 0,5 Nm tightening torque	
Ethernet	RJ-45	Not available		Not available	
RS232	Not available	Not available		RJ-45	
Electrical					
Nominal voltage	100 - 240 V AC / ± 10 % / (50/60 Hz)	100 - 240 V AC / ± 10 % / (50/60 Hz)		100 - 240 V AC / ± 10 % / (50/60 Hz)	
Power consumption (max.)	2,5 W	3 W		25 W	
Power consumption (nom.)	1 W	1,5 mA x M-Bus-Loads + 1 W		1,5 mA x M-Bus-Loads + 1 W	
Installation category	CAT 3	CAT 3		CAT 3	
Ethernet specifications					
Speed	Auto 10/100 MBit	Not available		Not available	
Duplex	Half/Full duplex				
Configuration	Via internal HTTP web server with any web browser				
Readout	Virtual COM port or IP address				
M-Bus specifications					
M-Bus standard	EN 13757	EN 13757		EN 13757	
M-Bus baud rate	300, 2400 Bit/s	300, 2400 Bit/s		300, 2400 Bit/s	
Maximum connected M-Bus Loads (each 1,5 mA)	8	32	64	128	256
Maximum cable length	1000 m[1)]	1000 m[1)]		1000 m[1)]	
Maximum load capacitance	1,5 µF	1,5 µF		1,5 µF	
Bus voltage (nom.)	28 V DC	28 V DC		42 V DC	
IR Interface for extension modules	Yes	Yes		Yes	
Extension possibilities (Additional M-Bus Loads)	Yes, max. of 4 CMe-modules side by side	Yes, max. of 4 CMe-modules side by side		Yes, max. of 4 CMe-modules side by side	

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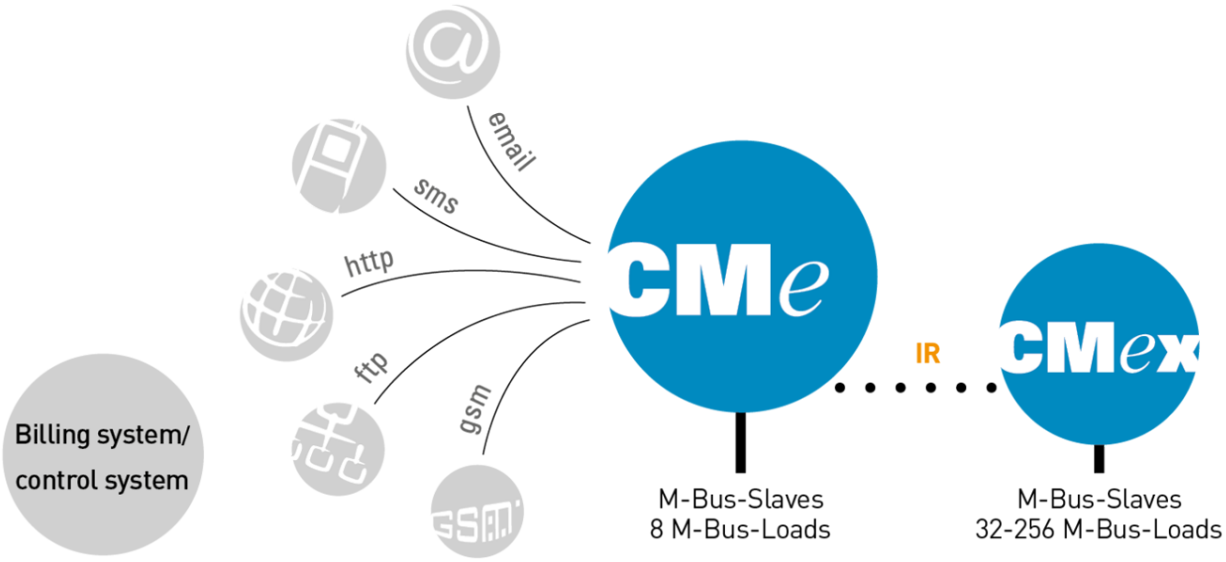
Ambient conditions		
Operating temperature range	-20 to + 55 °C	-30 to + 55 °C
Storage temperature range	-40 to + 85 °C	-40 to + 85 °C
Humidity	80 % at temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C	80 % at temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C
Pollution Degree	2	2

Approvals		
EMC	EN 61000-6-2, EN 61000-6-3	EN 61000-6-2, EN 61000-6-3
Safety	EN 61010-1, CAT 3	EN 61010-1, CAT 3

1] The maximum possible network reach (entire cable length) as well as the distance to the M-Bus end devices depends greatly on the network topology, the number of connected devices, the cross-section of the used cables and the transfer rate



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