



M-Bus Level Converter: CMeX10S - CMeX13S

Extension Modules: CMeX10S - CMeX13S

Your benefits

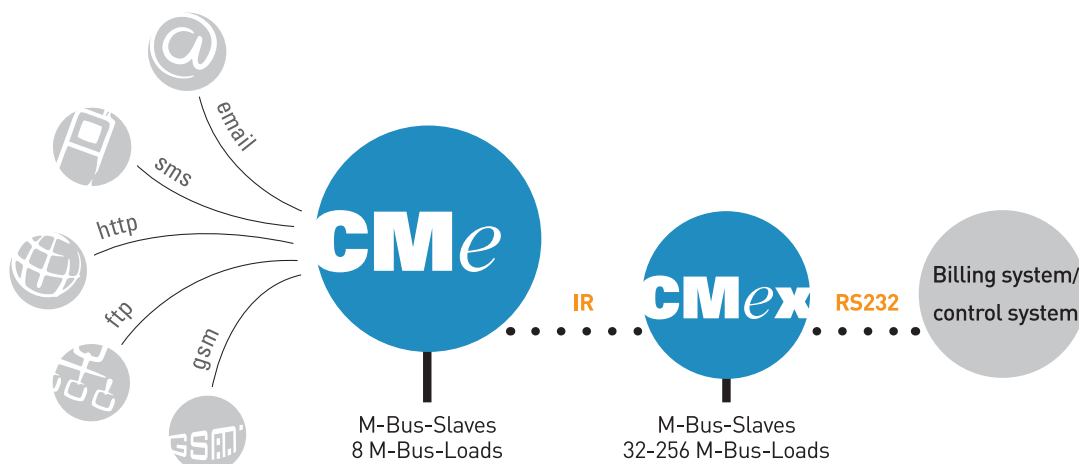
- Transparent mode of operation:
Unchanged transfer of read-out data to the communication device
- IR interface for modular extension:
No need to replace the level converter when connecting additional measuring points, investment protection
- RS232 interface for communication with PC:
Transparent communication between level converter and PC
- 100-240VAC mains power required:
No extra power supply necessary
- Operating status display via LED:
Easy on-site analysis and troubleshooting

Features

- Signal converter from M-Bus to RS232
- DIN mounted, modular and expandable – future proof solution
- Stackable modular design M-Bus level converter for 32, 64, 128 or 256 M-Bus end devices with a standard load of 1,5mA
- With the IR-Enabler (CMeX40) it is possible to extend existing M-Bus installations for additional M-Bus loads
- Several extension modules (additional M-Bus loads) which are mounted to the right (IR interface) of the module are available
- M-Bus protocol according to EN 13757-3
- Transfer rates: 300, 2400 Bit/s
- M-Bus short-circuit protection
- 100-240VAC power supply
- Operating indicator with LED

Application

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



Technical Data

	M-Bus Level converter with RS232*				Extension Modules for CMeXxxS	
	CMeX10S	CMeX11S	CMeX12S	CMeX13S	CMeX10	CMeX11
Mechanics						
Dimensions (HxWxD)	90x108x65mm (6 DIN-Modules)				90x36x65 (2 DIN-Modules)	
Weight	app. 220g				app. 100g	
Installation	Hat rail TS35 (EN 50022) / DIN mounted					
Casing material	Polyamide					
Protection class	IP20					
Terminals						
Power supply	L, N, Protective Earth Screw terminal cable 0,75 - 2,5mm ² 0,5Nm tightening torque				L, N Screw terminal cable 0,75 - 2,5mm ² 0,5Nm tightening torque	
M-Bus	Pin terminal solid wire Ø 0,6 - 0,8mm and Screw terminal cable 0,25 - 2,5mm ² 0,5Nm tightening torque				Pin terminal solid wire Ø 0,6 - 0,8mm	
RS232	RJ-45				Not available	
Electrical						
Nominal Voltage	100...240VAC / ± 10% / (50/60Hz)					
Power consumption (max.)	25W				3W	
Power consumption (nom.)	1,5mA x M-Bus-Loads + 1W					
Installation category	CAT 3					
M-Bus specifications						
M-Bus standard	EN 13757					
M-Bus baud rate	300, 2400 Bit/s					
Maximum connected M-Bus-Loads (each 1,5mA)	32	64	128	256	32	64
Maximum cable length	1000m**					
Maximum load capacitance	1,5µF					
Bus voltage (nom.)	42VDC				28VDC	
IR Interface for extension modules	Yes					
Extension possibilities (Additional M-Bus Loads)	Yes Maximum of 4 CMeX-modules side by side					
Ambient conditions						
Operating temperature range	-30 to +55°C					
Storage temperature range	-40 to +85°C					
Humidity	80% at temperatures up to 31°C, decreasing linearly to 50% at 40°C					
Pollution Degree	2					
Approvals						
EMC	EN 61000-6-2, EN 61000-6-3					
Safety	EN 61010-1, CAT 3					

* Can be used as an extension module (additional M-Bus loads).

** 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.