

## CMeX10S - CMeX13S

M-Bus Level Converter



### Your benefits

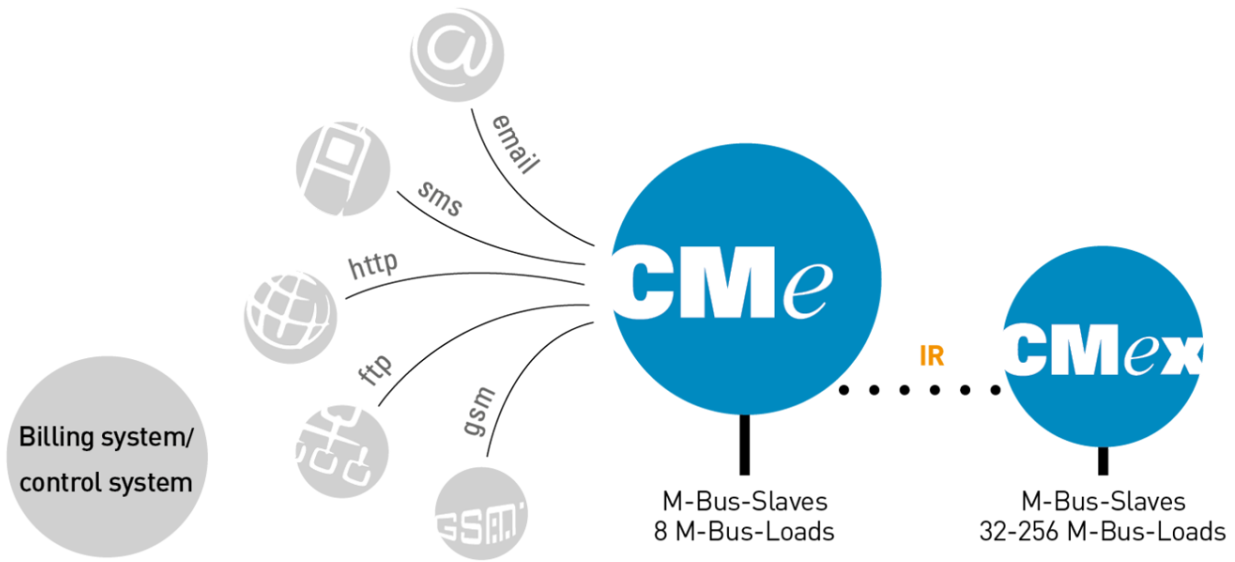
- Transparent mode of operation:  
**Unchanged transfer of read-out data to the communication device**
- IR interface for modular extension:  
**No need to replace the level converter when connecting additional measuring points, investment protection**
- RS232 interface for communication with PC:  
**Transparent communication between level converter and PC**
- 100-240 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

### Properties

- 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 1,5 mA
- 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
- 100-240 V AC power supply
- Operating indicator with LED



# Technical Data

	M-Bus Level converter with RS232 <sup>1)</sup>				Extension Modules for CMeXxxS	
	CMeX10S	CMeX11S	CMeX12S	CMeX13S	CMeX10	CMeX11
<b>Mechanics</b>						
Dimensions (HxWxD)	90x108x65 mm (6 DIN-Modules)				90x36x65 mm (2 DIN-Modules)	
Weight	app. 220 g				app. 100 g	
Installation	Hat rail TS35 (EN 50022) / DIN mounted					
Casing material	Polyamide					
Protection class	IP20					
<b>Terminals</b>						
Power supply	L, N, Protective Earth Screw terminal cable 0,75 - 2,5 mm <sup>2</sup> 0,5 Nm tightening torque				L, N Screw terminal cable 0,75 - 2,5 mm <sup>2</sup> 0,5 Nm tightening torque	
M-Bus	Pin terminal solid wire Ø 0,6 - 0,8 mm and Screw terminal cable 0,25 - 2,5 mm <sup>2</sup> 0,5 Nm tightening torque				Pin terminal solid wire Ø 0,6 - 0,8 mm	
RS232	RJ-45				Not available	
<b>Electrical</b>						
Nominal Voltage	100...240 V AC / ± 10% / (50/60 Hz)					
Power consumption (max.)	25 W				3 W	
Power consumption (nom.)	1,5 mA x M-Bus-Loads + 1 W					
Installation category	CAT 3					
<b>M-Bus specifications</b>						
M-Bus standard	EN 13757					
M-Bus baud rate	300, 2400 Bit/s					
Maximum connected M-Bus-Loads (each 1,5 mA)	32	64	128	256	32	64
Maximum cable length	1000 m <sup>2)</sup>					
Maximum load capacitance	1,5 µF					
Bus voltage (nom.)	42 V DC				28 V DC	
IR Interface for extension modules	Yes					
Extension possibilities (Additional M-Bus Loads)	Yes (Maximum of 4 CMeX-modules side by side)					
<b>Ambient conditions</b>						
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					
<b>Approvals</b>						
EMC	EN 61000-6-2, EN 61000-6-3					
Safety	EN 61010-1, CAT 3					

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

2) 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.