

The CMEx10 (CMEx10-11-12-13) range makes it possible to expand your CMe range with up to 256 extra M-Bus slaves. The units can also be connected with any existing M-Bus system. The CMEx10 range is equipped with the unique IR Pass Through function which makes the products stackable.



READY TO USE

The CMEx10 range (CMEx10-11-12-13) is ready to use, with no configuration required in the field. The possibility of stacking the CMEx10 range enables one CMe range to handle multiple M-Bus 2-wire buses isolated from each other. After installation, the CMEx10 range shows an indication if the installation was successful and no short-circuit was detected on the bus. The RS232 interface on CMEx12 and CMEx13 enables communication to any system using M-Bus over RS232.

OPEN PROTOCOL

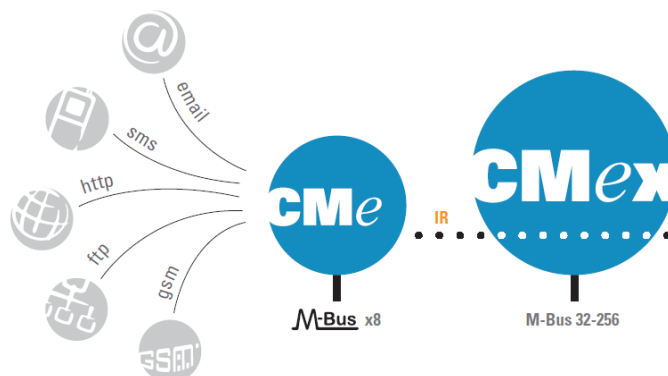
The standard open protocol design works with any software supporting the M-Bus standard. Its transparent M-Bus dataflow requires no manufacture specific protocols.

FLEXIBLE

The CMEx range contains modules with various functions to meet a great variety of customer demands. The range includes for example I/O modules and D/A modules to read input signals or control output signals.

COST EFFECTIVE

The modular and expandable design allows the customer to select a suitable level based on price and functionality. The low initial cost and the possibility to add modules to existing installations provide a future-proof solution.



Technical Specifications

Mechanical Specifications	CMEx10-11	CMEx12-13
Casing material	Polyamide	
Protection class	IP20	
Dimensions	90 x 65 x 35 mm	90 x 65 x 108 mm
Weight	100 g	220 g
M-Bus connection	Pin terminal solid wire 0.6-0.8 Φ mm	Pin terminal solid wire 0.6-0.8 Φ mm and screw terminal, 0-2.5 mm ² cable; tightening torque: 0.5 Nm
Power supply connection	Screw terminal cable 0-2.5 mm ² , tightening torque: 0.5 Nm	
Mounting	DIN rail	

Electrical Specifications	CMEx10-11	CMEx12-13
Nominal voltage	100-240 VAC	
Voltage range	-10 % to +10 % of nominal voltage	
Frequency	50/60 Hz	
Power consumption (max.)	3 W	25 W
Power consumption (nom.)	1.5 mA x M-Bus slaves + 1 W	
Installation category	CAT 3	

Environment	
Operating temperature range	-30 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Operating humidity (max.)	80% RH temperatures up to 31 °C, decreasing linearly to 50% RH at 40 °C
Pollution	2
Operating altitude	0-2000 m
Use	Indoor use only. IP67 enclosure is available for outdoor use.

User Interface	
Green led	Power
Red led	Error
Yellow Led	RX
Yellow Led	TX
Push button	---

M-Bus	CMEx10	CMEx11	CMEx12	CMEx13
Standard	EN 13757			
Baud rate	300 and 2400 Bit/s			
Max. connected M-Bus meters	32	64	128	256
Max. cable length	1000 m		5000 m	
IR interface	Yes			
Max. load capacitance	1.5 μ F			
Collision detection	> 28 to 500 mA			
RS232 to M-Bus	Yes		No	
Break signal length M-Bus 2-wire and right IR interface	45 ms			
Nominal voltage	28 VDC		42 VDC	
Max. idle current	55 mA	100 mA	200 mA	400 mA
IR interface	Yes			
Pass Through	Yes; max. 4 CMEx10 range modules side by side			
Compatibility	M-Bus meters, CMEx range products			

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



CMEx10 range	Number of meters	RS232	Cable length	Number of DIN-modules
CMEx10	32	No	1000	2
CMEx11	64	No	1000	2
CMEx12	128	Si	5000	6
CMEx13	256	Si	5000	6