

CMeX10 SERIES

DIN-Mounted M-Bus extenders



The CMeX10 Series (CMeX10-11 and CMeX10S-11S-12S-13S) makes it possible to expand your CMe series with up to 256 extra M-Bus slaves. The units can also be connected with any existing M-Bus system. The CMeX10 Series is equipped with the unique IR Pass Through function, making the products stackable.

READY TO USE

The CMeX10 Series (CMeX10-11 and CMeX10S-11S-12S-13S) is ready to use with no configuration required in the field. The possibility of stacking the CMeX10 Series, enables one CMe series to handle multiple M-Bus 2-wire buses isolated from each other. After installation, the CMeX10 Series shows an indication if the installation was successful and no short-circuit was detected on the bus. The RS232 interface on CMeX10S, CMeX11S, CMeX12S and CMeX13S enables communication to any system using M-Bus over RS232.

STANDARD OPEN PROTOCOLS

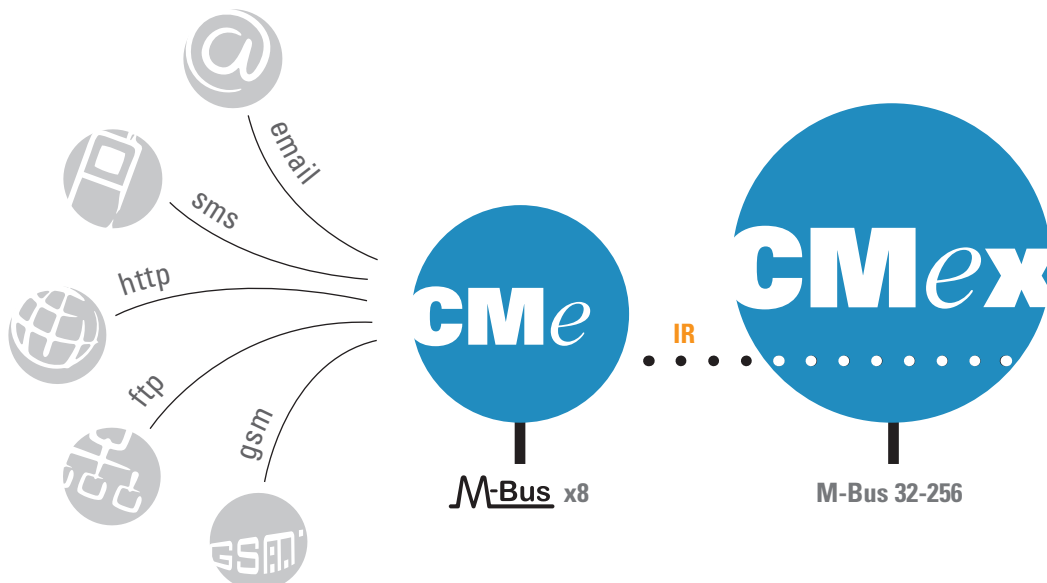
The standard open protocol design works with any software supporting the M-Bus standard. Its transparent M-Bus dataflow require no manufacture specific protocols.

FLEXIBLE

The CMeX Series contains modules with various functions to meet a great variety of customer demands. The series contains 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.



Mechanics

CMeX10-11

 CMeX10S-11S-
12S-13S

Casing material	Polyamide	
Protection class	IP20	
Dimensions	90 x 65 x 35 mm	90 x 65 x 108 mm
Weight	100 g	220 g
Connection M-Bus	Pin terminal solid wire 0.6-0.8 Ø mm	Pin terminal solid wire 0.6-0.8 Ø mm and screw terminal cable 0-2.5 mm ² , 0.5 Nm tightening torque
Mounting	DIN Mounted	
Power supply	Screw terminal cable 0-2.5 mm ² , 0.5 Nm tightening torque	

Electrical

CMeX10-11

 CMeX10S-11S-
12S-13S

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	

Environmental

Operating temperature range	-30 to +55 °C	
Storage temperature range	-40 to +85 °C	
Operating humidity max	80 % RH temperatures up to 31 °C, decreasing linearly to 50 %RH at 40 °C	
Pollution	Degree 2	
Operating altitude	0-2000 m	
Usage	Indoor use only, can be extended with IP67 enclosure for outdoor use	

User interface

Green LED	Power
Red LED	Error
Yellow LED	RX
Yellow LED	TX
Push button	Not used

M-Bus

CMeX10 CMeX11 CMeX12 CMeX13

M-Bus standard	EN 13757			
M-Bus baud rate	300 and 2400 Bit/s			
Maximum connected M-Bus meters	32	64	128	256
Maximum cable length	1000 m/5000 m*		5000 m	
Max load capacitance	1.5 µF			
Light collision detect	>28 to 500 mA			
RS232 to M-Bus	No/Yes*		Yes	
Break signal length M-Bus 2-wire and right IR interface	45 ms			
Nominal voltage	28 VDC/42 VDC*		42 VDC	
Maximum idle current	55 mA	100 mA	200 mA	400 mA
IR Interface	Yes			
Pass Through	Yes. Maximum of 4 CMeX10 Series products side by side			
Compatibility	All standard M-Bus meters, all ABB meters with IR interface, CMeX Series products			

* For CMeX10S and CMeX11S

Approvals

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

CMeX10 series

	Number of meters	RS232	Cable length	Number of DIN-modules
CMeX10	32	No	1000	2
CMeX11	64	No	1000	2
CMeX10S	32	Yes	5000	6
CMeX11S	64	Yes	5000	6
CMeX12S	128	Yes	5000	6
CMeX13S	256	Yes	5000	6