CMeX20

External MCM for ABB B21/B23/B24, M-Bus

CMeX20 is a DIN-mounted External MCM that converts IR to M-Bus. It enables standard M-Bus communication for all CMeX Series products and DIN-mounted ABB electricity meters using IR interface.

READY TO USE

The CMeX20 is ready to use with no configuration required in the field. It can be connected to a CMe Series master, or any M-Bus master following the M-Bus standard.
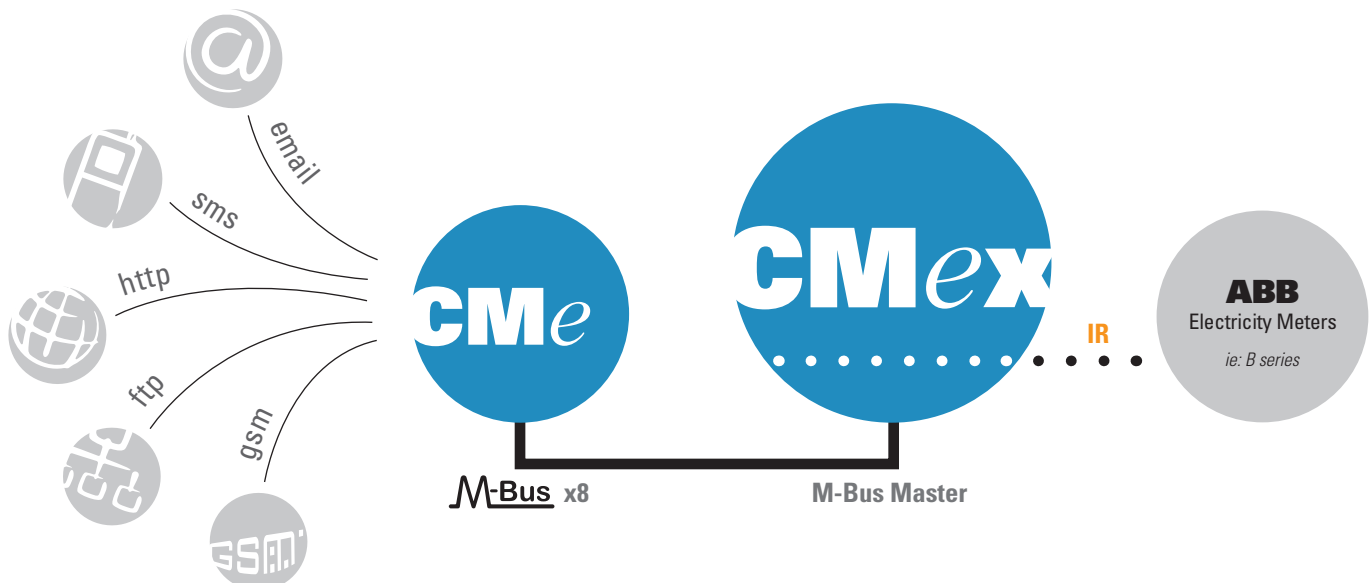
STANDARD OPEN PROTOCOLS

The standard open protocol design works with any software supporting the M-Bus standard. It allows any existing M-Bus system to use the product without any proprietary solutions.

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

Casing material	Polyamide
Protection class	IP20
Dimensions (w x h x d)	35 x 90 x 65 mm (2 DIN modules)
Weight	100 g
Mounting	Mounted on DIN rail (DIN 50022) 35 mm

Electrical connections

Supply voltage	From M-Bus
Connection M-Bus	Screw terminal 0.25-1.5 mm²

Electrical characteristics

Nominal voltage	21-42 VDC through M-Bus connection, independent of wiring polarity
Unit loads	3 mA M-Bus 2T

Environmental specifications

Operating temperature	-20 °C to +55 °C
Operating humidity max	80 % RH at temperatures up to 31 °C, decreasing linearly to 50 % RH at 40 °C
Operating altitude	0-2000 m
Pollution degree	Degree 2
Usage environment	Indoors, can be extended with IP67 enclosure for outdoor use
Storage temperature	-40 °C to +85 °C

User interface

Orange LED	Power/M-Bus activity

M-Bus

Interfaces	IR, M-Bus slave

M-Bus slave interface

M-Bus standard	EN 13757
M-Bus baud rate	300 and 2400 bit/s
Addressing modes	Electricity meter's secondary address
M-Bus information	All fields in the first telegram of the electricity meter

Integration

Meter implementation	ABB meters with IR interface
Maximum number of connected meters	1

Approvals

EMC	EN 61000-6-2, EN 61000-6-3

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