

CMeX10 SERIES

DIN-Mounted M-Bus extenders



The CMeX10 Series (CMeX10-11-12-13) 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 (CMeX10-11-12-13) 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 CMeX12 and CMeX13 enables communication to any system using M-Bus over RS232.

STANDARD OPEN PROTOCOLS

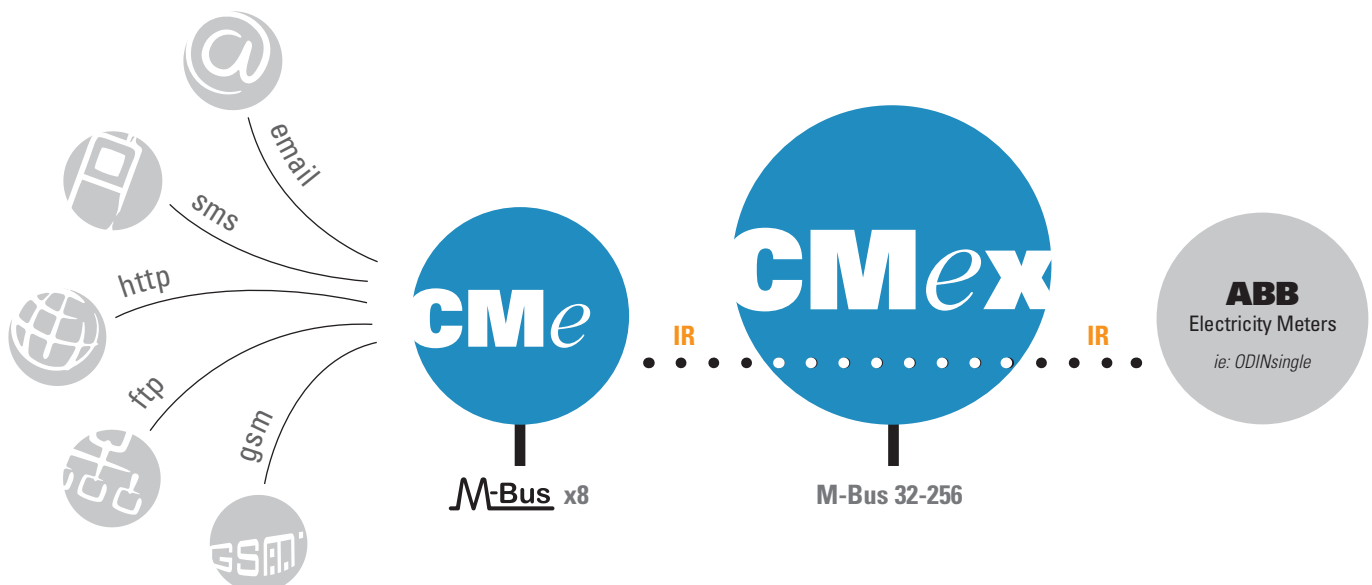
The standard open protocol design works with any software supporting the M-Bus standard. Its transparent M-Bus dataflow require no manufacture specific protocols.

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
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 |
| 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
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 | |

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 | |
| Max load capacitance | 1.5 µF | | | |
| Light collision detect | >28 to 500 mA | | | |
| RS232 to M-Bus | No | | Yes | |
| Break signal length M-Bus 2-wire and right IR interface | 45 ms | | | |
| Nominal voltage | 28 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 | | | |

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 |
| CMeX12 | 128 | Yes | 5000 | 6 |
| CMeX13 | 256 | Yes | 5000 | 6 |