

CMeX10S-13S

M-Bus Master for
32-256 meters



CMeX10S-13S is an M-Bus Master which, by providing additional drive strength, extends the number of meters an Elvaco CMe Series Gateway is able to use. The product is equipped with a unique IR Pass Through feature which enables up to four CMe/CMeX Series devices to communicate via IR, by stacking them side-by-side. The product also supports integration with existing M-Bus systems through RS232.

Technical Specification

| Mechanics | |
|------------------|----------------------------|
| Protection class | IP20 |
| Dimensions | 108 × 90 × 65 mm |
| Weight | 220 g |
| Mounting | DIN-rail (DIN 50022) 35 mm |

Electrical connections

| | |
|-------------------|--|
| Supply voltage | Screw terminal. Cable 0.75-2.5 mm ² |
| M-Bus master port | Pin terminal. Solid wire 0.6-0.8 Ø mm |
| RS232 | RJ45 8/8 |

Electrical characteristics

| | |
|-------------------------|-----------------------------------|
| Nominal voltage | 100-240 VAC (±10%) |
| Voltage range | -10 % to +10 % of nominal voltage |
| Frequency | 50/60 Hz |
| Power consumption (max) | <25 W |
| Power consumption (nom) | 0.07 W x M-Bus unit loads + 1.5 W |
| Overvoltage category | CAT 2 |

User Interface

| | |
|--------------|-------------------------------------|
| Green LED | Power |
| Red LED | Error |
| Yellow LED 1 | M-Bus data transmission from device |
| Yellow LED 2 | M-Bus data transmission to device |

Approvals

| | |
|--------|--|
| EMC | EN 61000-6-2, EN 61000-6-3, FCC 47 CFR |
| Safety | EN 62368-1 2018, UL 62368-1:2014 Ed.2, CSA C22.2#62368-1:2014 Ed.2 |

M-Bus

| | |
|----------------|-----------------------------|
| Interfaces | IR, integrated M-Bus Master |
| M-Bus standard | EN 13757 |

Integrated M-Bus Master

| | |
|----------------------------------|--|
| Nominal voltage | 42 VDC |
| M-Bus baud rate | 300 och 2400 bit/s |
| Maximum numbers of M-Bus devices | CMeX10S: 32 CMeX11S: 64 CMeX12S: 128 CMeX13S: 256 |
| M-Bus search modes | Primary, secondary |
| Maximum cable length | 5000 m (100 nF/km, maximum 90 ohm) |
| IR Pass Through | Yes, with a maximum of four devices stacked side by side |

Integration

| | |
|---------------|---|
| Compatibility | All M-Bus meters, ABB meters with IR interface, CMe/CMeX Series |
|---------------|---|

Environmental specifications

| | |
|-----------------------|--|
| Operating temperature | -30 °C to +55 °C |
| Operating humidity | 5 % to 90 %, non-condensing |
| 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 |



technical@bmetersuk.com



www.bmetersuk.com



01157 722 506