

# CMe3000

M-Bus Gateway TCP/IP

## Your benefits

- Transparent mode of operation:
  **Unchanged transfer of read-out data to the communication device**
- TCP/IP interface for communication with readout infrastructure:
  **Ease of installation, especially when M-Bus measuring instruments are distributed over several floors or buildings**
- IR interface for modular extension:
  **No need to replace the M-Bus TCP/IP Master when connecting additional measuring points, investment protection**
- 100 - 240 V AC mains power required:
  **No extra power supply necessary**
- Operating status display via LED:
  **Easy on-site analysis and troubleshooting**

## Applications

- Remote supply and remote reading of M-Bus end devices over Ethernet

## Properties

- Signal converter from M-Bus to TCP/IP
- DIN mounted, modular and expandable - future proof solution
- Several extension modules (additional M-Bus loads) which are mounted to the right (IR interface) of the module are available
- Intelligent watchdog functionality to enable stable operation during a long time
- Supports static IP addressing as well as dynamic IP addressing (DHCP)
- Internal HTTP web server for configuration with any web browser – no additional software required
- Readout via virtual COM ports - existing PC software can be used
- M-Bus protocol according to EN 13757-3
- Transfer rates M-Bus: 300, 2400 Bit/s
- M-Bus short-circuit protection
- 100 - 240 V AC power supply
- Operating indicator with LED

GWF AG
Obergrundstrasse 119
6005 Lucerne, Switzerland

T +41 41 319 50 50
info@gwf.ch, www.gwf.ch

Technical support:
T +41 41 319 52 00, support@gwf.ch

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# Technical Data

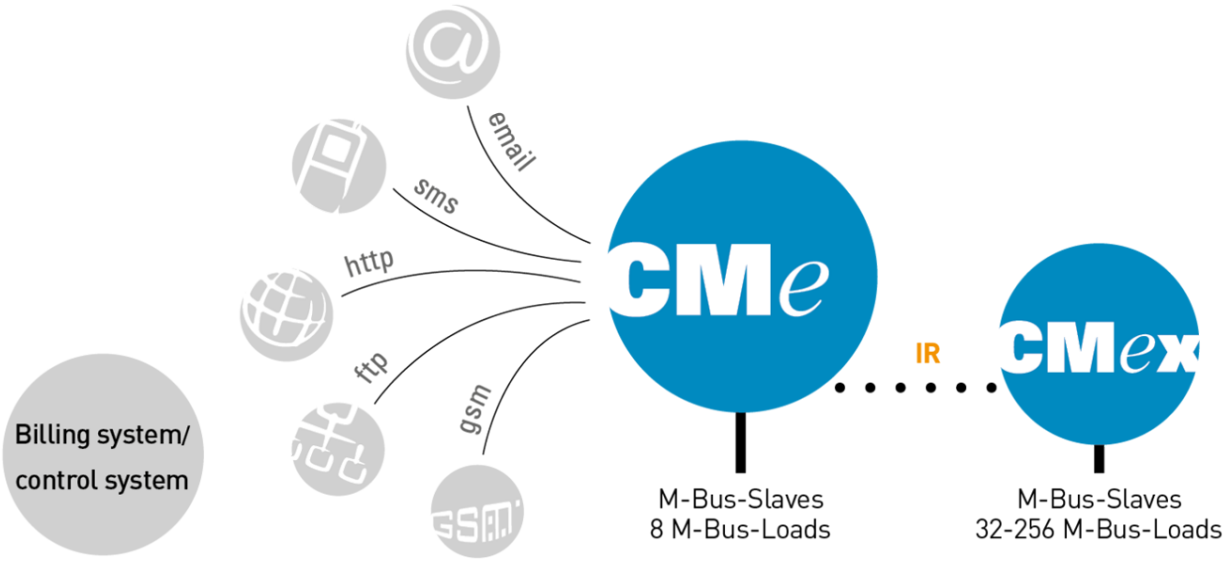
| | M-Bus TCP/IP Master | Extension modules for CMe3000 | | | |
|---|---|---|---|---|---|
| | CMe3000 | CMeX10 | CMeX11 | CMeX12S | CMeX13S |
| **Mechanics** | | | | | |
| Dimensions (HxWxD) | 90 x 36 x 65 mm (2 DIN-Modules) | 90 x 36 x 65 mm (2 DIN-Modules) | | 90 x 108 x 65 mm (6 DIN-Modules) | |
| Weight | app. 100 g | app. 100 g | | app. 220 g | |
| Installation | Hat rail TS35 (EN 50022) / DIN mounted | Hat rail TS35 (EN 50022) / DIN mounted | | Hat rail TS35 (EN 50022) / DIN mounted | |
| Casing material | Polyamid | Polyamid | | Polyamid | |
| Protection class | IP20 | IP20 | | IP20 | |
| **Terminals** | | | | | |
| Power supply | L, N<br>screw cramp cable 0,75 - 2,5 $mm^2$<br>0,5 Nm tightening torque | L, N<br>screw cramp cable 0,75 - 2,5 $mm^2$<br>0,5 Nm tightening torque | | L, N, earth<br>screw cramp cable 0,75 - 2,5 $mm^2$<br>0,5 Nm tightening torque | |
| M-Bus | Pin terminal solid wire<br>Ø 0,6 - 0,8 mm | Pin terminal solid wire<br>Ø 0,6 - 0,8 mm | | Pin terminal solid wire<br>Ø 0,6 - 0,8 mm and<br>screw cramp cable 0,25 - 2,5 $mm^2$<br>0,5 Nm tightening torque | |
| Ethernet | RJ-45 | Not available | | Not available | |
| RS232 | Not available | Not available | | RJ-45 | |
| **Electrical** | | | | | |
| Nominal voltage | 100 - 240 V AC / ± 10 % / (50/60 Hz) | 100 - 240 V AC / ± 10 % / (50/60 Hz) | | 100 - 240 V AC / ± 10 % / (50/60 Hz) | |
| Power consumption (max.) | 2,5 W | 3 W | | 25 W | |
| Power consumption (nom.) | 1 W | 1,5 mA x M-Bus-Loads + 1 W | | 1,5 mA x M-Bus-Loads + 1 W | |
| Installation category | CAT 3 | CAT 3 | | CAT 3 | |
| **Ethernet specifications** | | | | | |
| Speed | Auto 10/100 MBit | Not available | | Not available | |
| Duplex | Half/Full duplex | | | | |
| Configuration | Via internal HTTP web server with any web browser | | | | |
| Readout | Virtual COM port or IP address | | | | |
| **M-Bus specifications** | | | | | |
| M-Bus standard | EN 13757 | EN 13757 | | EN 13757 | |
| M-Bus baud rate | 300, 2400 Bit/s | 300, 2400 Bit/s | | 300, 2400 Bit/s | |
| Maximum connected M-Bus Loads (each 1,5 mA) | 8 | 32 | 64 | 128 | 256 |
| Maximum cable length | 1000 m[1)] | 1000 m[1)] | | 1000 m[1)] | |
| Maximum load capacitance | 1,5 µF | 1,5 µF | | 1,5 µF | |
| Bus voltage (nom.) | 28 V DC | 28 V DC | | 42 V DC | |
| IR Interface for extension modules | Yes | Yes | | Yes | |
| Extension possibilities (Additional M-Bus Loads) | Yes, max. of 4 CMe-modules side by side | Yes, max. of 4 CMe-modules side by side | | Yes, max. of 4 CMe-modules side by side | |


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| Ambient conditions | | |
|---|---|---|
| Operating temperature range | -20 to + 55 °C | -30 to + 55 °C |
| Storage temperature range | -40 to + 85 °C | -40 to + 85 °C |
| Humidity | 80 % at temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C | 80 % at temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C |
| Pollution Degree | 2 | 2 |

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

1] The maximum possible network reach (entire cable length) as well as the distance to the M-Bus end devices depends greatly on the network topology, the number of connected devices, the cross-section of the used cables and the transfer rate





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