



B METERS CMe3100 M Bus Metering Gateway for Fixed Network User Guide

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Technical Specifications

Mechanics

- **Protection class:** IP20
- **Dimensions (w x h x d):** 72 x 90 x 65 mm (4 DIN modules)
- **Mounting:** DIN-rail (DIN 50022) 35 mm
- **Weight:** 190 g

M-Bus

- **Interfaces:** IR, integrated M-Bus Master, M-Bus slave
- **M-Bus standard:** EN 13757
- **Transparent M-Bus:** TCP/IP and M-Bus 2-wire slave interface
- **Virtual M-Bus:** TCP/IP and M-Bus 2-wire slave interface
- **Decryption:** Yes

Electrical connections

- **Supply voltage:** Screw terminal, cable 0-2,5 mm²
- **M-Bus master port:** Screw terminal, cable 0,25-1,5 mm²
- **M-Bus slave port 1:** Screw terminal, cable 0,25-1,5 mm²
- **M-Bus slave port 2:** Screw terminal, cable 0,25-1,5 mm²
- **USB master port:** Type A
- **USB slave port:** Type mini B
- **Network:** RJ45 (Ethernet)

Integrated M-Bus Master

- **M-Bus baud rate:** 300 and 2400 bit/s

- **Nominal voltage:** 28 VDC
- **Maximum unit loads:** 32T/48 mA, can be extended with CMeX10-13S
- **Maximum numbers of M-Bus devices:** Software licenses for 8, 32, 64, 128, 256 and 512 devices
- **Maximum cable length:** 1000 m (100 nF/m, maximum 90 Ω)

Electrical characteristics

- **Nominal voltage:** 100-240 VAC ($\pm 10\%$)
- **Frequency:** 50/60 Hz
- **Power consumption (max):** <15 W
- **Power consumption (nom):** <5 W
- **Installation category:** CAT 3

User interface

- **Green LED:** Power
- **Red LED:** Error
- **Yellow LED:** Status ethernet
- **Push button:** Factory reset
- **Configuration:** Web interface (HTTP), Autoconfiguration (URL), Telnet, REST/JSON

General

- **Real-time clock accuracy:** <2 s/day
- **Script engine:** Intelligent script engine for active content generation
- **Software update:** Web Interface
- **Measurement reports:** HTTP, FTP, SMTP (e-mail)
- **Addition:** Modbus, REST, JSON-RPC, DLMS
- **Continuous Readout Mode:** Modbus, REST
- **Real-time clock backup:** 24 h

Data storage (examples)

- **32 meters:** 15-minute values: ~4 years, Hourly values: >15 years
- **128 meters:** 15-minute values: ~1 year, Hourly values: ~4 years
- **512 meters:** 15-minute values: ~3 months, Hourly values: ~1 year

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]

Configuration and Setup

The CMe3100 M-Bus Metering Gateway can be easily configured and updated through its web interface. Follow these steps to set up the device:

1. Connect the gateway to a power source using the supplied cables.
2. Access the web interface by entering the gateway's IP address in a web browser.
3. Follow the on-screen instructions to configure the gateway settings, such as integration protocols and meter readings.
4. Save the settings and ensure proper communication with the receiving system.

Data Compilation and Delivery

The CMe3100 gateway reads data from up to 512 meters, compiles it into customized reports, and delivers it to a receiving system. Here's how to manage data compilation and delivery:

1. Set up the gateway to read data from the desired meters using the M-Bus standard protocol.
2. Create customized reports based on the compiled data for specific analysis requirements.
3. Select the delivery method (e.g., ModBus, DLMS, JSON, REST) for transmitting the reports to the receiving system.
4. Ensure regular updates and maintenance of the gateway for efficient data delivery.

FAQs


Q: How many meters can the CMe3100 gateway read?

A: The CMe3100 can read data from up to 512 meters simultaneously.

Q: What integration protocols are supported by the CMe3100?

A: The CMe3100 supports integration protocols such as ModBus, DLMS, JSON, and REST for data transmission.

Documents / Resources

	<p>B METERS CMe3100 M Bus Metering Gateway for Fixed Network [pdf] User Guide CMe3100 M Bus Metering Gateway for Fixed Network, CMe3100, M Bus Metering Gateway for Fixed Network, Metering Gateway for Fixed Network, Gateway for Fixed Network</p>
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References

- [BMETERS UK | Next Day Delivery | Birmingham](#)
- [User Manual](#)

[Manuals±](#), [Privacy Policy](#)

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