



Elvaco CMe3100

Part Code	Name	Size	Input
EL318IP	Elvaco CMe3100 TCP/IP. 8 Slaves	8	Mbus
EL313IP	Elvaco CMe3100 TCP/IP. 32 Slaves	32	Mbus
EL316IP	Elvaco CMe3100 TCP/IP. 64 Slaves	64	Mbus
EL311IP	Elvaco CMe3100 TCP/IP 128 Slaves	128	Mbus
EL310DC	Elvaco CMe3100 TCP/IP 256 Slaves	250	Mbus
EL332UP	CMe3100 Licence Upgrade 8-32	32	Mbus
EL364UP	CMe3100 Licence Upgrade 8-64	64	Mbus
EL356UP	CMe3100 Licence Upgrade 8-256	256	Mbus
EL664UP	CMe3100 Slave upgrade 32-64	64	Mbus

CMe3100 is an Mbus Metering Gateway for Fixed Network that reads up to 512 meters, compiles meter data in customized reports and delivers it to a receiving system by a set schedule and integration protocol via the fixed network.

It is compatible with all meters that use the Mbus standard protocol and Elvaco's CMe/CMeX Series.

CMe3100 is easily configured and updated through its web interface and supports a wide range of integration protocols, such as ModBus, DLMS, JSON and REST, which makes it a viable solution for many different types of metering projects.

Through the continuous readout feature, meter data can be delivered in real-time, which might for example be used in an automatic control system.

CMe3100 is equipped with a flexible licensing scheme, which allows for a cost-effective customization at the purchase point as well as the possibility to later extend the product functionality without changing the hardware.



Features:

- Reads up to 512 MBus meters. Expanders required. Sold Separately.
- Can read up to 32 meters without an expander
- TCP/IP
- DIN Rail Mounted
- Suitable Enclosures available on request

Technical Specification

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

Electrical connections

Supply voltage	Screw terminal, cable 0-2,5 mm ²
MBus master port	Pin terminal, solid wire 0,6-0,8 Ø mm
MBus slave port 1	Screw terminal, cable 0,25-1,5 mm ²
MBus slave port 2	Screw terminal, cable 0,25-1,5 mm ²
USB master port	Type A
USB slave port	Type mini B
Network	RJ45 (Ethernet)

Electrical characteristics

Nominal voltage	100-240 VAC (±10%)
Power consumption (max)	<15 W
Power consumption (nom)	<5 W

MBus

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

Approvals

EMC	EN 61000-6-2, EN 61000-6-3
Safety	IEC 60950-1, CAT 3



Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

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Integrated MBus Master

MBus baud rate, master port	300 and 2400 bit/s
Maximum numbers of MBus devices	Software licenses for 8, 32, 64, 128, 256 and 512 devices

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

Datastorage (example)

1 meter	15-minute values: ~15 years, Hourly values: >15 years
32 meters	15-minute values: ~4 years, Hourly values: >15 years
128 meters	15-minute values: ~1 year, Hourly values: ~4 years
256 meters	15-minute values: ~0,5 years, Hourly values: ~2 years
512 meters	15-minute values: ~3 months, Hourly values: ~1 year

User interface

Configuration	Web interface (HTTP), Auto configuration (URL), Telnet, REST/JSON
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**Data
Collection**

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Networks

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