



Elvaco CMe2100

Part Code	Name	Size	Input
EL001DC	CMe2100 GSM/GPRS MBus Master Unit up to 1 Meter Point	1	MBus
SY001DC	GSM MBus Data Collector - 1 Meter	1	MBus
EL008DC	CMe2100 GSM/GPRS MBus Master	8	MBus
SY008DC	MBus Data Collector - 8 Meters	8	MBus
SY032DC	MBus Data Collector - 32 Meters	32	MBus
SY064DC	MBus Data Collector - 64 Meters	64	MBus
SY128DC	MBus Data Collector - 128 Meters	128	MBus
SY500DC	Wireless MBus Data Collector - 500 Meters	128	Wireless MBus
WL001SC	Data Collection Sim Card	-	-

CMe2100 (gen.3) is an MBus Metering Gateway for Mobile Network that reads up to 128 MBus meters, compiles meter data into customized reports and delivers it to a receiving system by a set schedule and integration protocol via GPRS.

The product is equipped with an IR interface which enables it to communicate with other devices from Elvaco's CMe/CMeX Series as well as ABB electricity meters without using any cables. CMe2100 (gen.3) is further compatible with all other meters that use the MBus standard protocol.

The product can be configured and updated remotely through text messages or HTTP, which means that settings can easily be changed without having to visit the installation site.



Features:

- Reads up to 128 MBus meters. Expanders required. Sold separately.
- Can read up to 8 meters without an expander
- GSM/GPRS
- DIN Rail Mounted
- Suitable Enclosures available on request.

Technical Specification

Mechanics

Casing Material	Polyamide
Protection Class	IP20
Dimensions (w x h x d)	35 x 100 x 65 mm (2 DIN modules)
Weight	120 g
Mounting	Mounted on DIN rail (DIN 50022) 35 mm
Antenna	SMA female
SIM card	Push-push type

Electrical connections

Supply voltage	Screw terminal. Cable 1.0-1.5 mm ² 0.5 Nm tightening torque
Mbus master port	Screw terminal. Cable 0.5-1.5 mm ² 0.5 Nm tightening torque
USB master port	Type A
USB slave port	Type micro B
Network	Mobile (Radio)

Electrical characteristics

Nominal voltage	100-240 VAC (+/- 10%)
Frequency	50/60 Hz
Power consumption (max)	<6 W
Power consumption (nom)	<1 W
Installation category	CAT 3

Environmental specifications

Operating temperature	-20 °C to +55 °C
Operating humidity max	80 % RH at temperatures up to 31°C, decreasing linearly to 50 % RH at 55 °C
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

User Interface

Green LED	Power
Red LED	Error
Yellow LED	GSM status
Blue LED	USB active
Push button	Factory reset
Configuration	SMS, HTTP, GSM CSD, Telnet



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MBus	
Interfaces	IR, integrated MBus Master
Maximum number of MBus devices (software limit)	128
Transparent MBus	GSM and TCP/IP (software limit does not apply to Transparent MBus mode)
Decryption	No


Integrated MBus Master	
MBus standard	EN 13757, full MBus decoder implemented
MBus baud rate	2400 and 9600 Bit/s
Nominal voltage	28 VDC
Maximum unit loads	8T/12 mA (can be extended with CMeX10-13S Series)
MBus search modes	Primary, secondary
Maximum cable length	1000 m (100 nF/km, maximum 90 Ω)

General	
Real time clock backup	12 h
Real time clock accuracy	<2 s/day
Script engine	Intelligent script engine for active content generation
Software/firmware update	HTTP
Measurement reports	HTTP, FTP, SMTP (e-mail), SMS

Data storage (examples)		
Number of meters	15 minute values	Hourly values
1	~200 days	~800 days
32	~6 days	~25 days
64	~3 days	~12 days
128	~1 day	~6 days

Mobile network	
GPRS class	Up to 12
Band	850/900/1800/1900 MHz

Approvals	
EMC	EN 61000-6-2, EN 61000-6-3, EN301489-1, EN 301489-7
Safety	EN 61010-1, CAT 3



Data Collection

Wired Networks

Wireless Networks

IoT Technologies

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