

CEMM3.0

CEMM 3.0 Energy consumption manager



Description

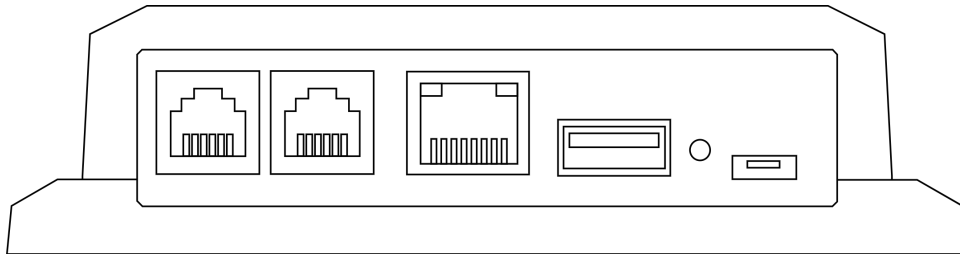
The CEMM is an energy-consumption monitor that can read and store data from different meters, devices and sensors. You can view, analyze and export this data via the app, the portal or the local web interface. The CEMM is designed for easy installation and use, without compromising on functionality. The CEMM comes with support for reading smart meters, pulse meters and Shelly devices. In addition, there are various modules available to read other types of meters (such as Modbus kWh meters) or to add extra functions.

Benefits

- ✓ Monitoring of up to 12 meters.
- ✓ History with minute resolution.
- ✓ Optional remote access.
- ✓ Export data in self-chosen resolutions and periods.
- ✓ Each meter consists of one or more channels (such as power, energy, etc.).
- ✓ Fully local storage, web interface and API.
- ✓ Custom dashboards and charts.

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Technical specifications



Connections

Port 1	Without splitter: P1 or S0 With splitter: P1 + S0 or S0 + S0
Port 2	S0
Port 3	Ethernet
Port 4	USB
Port 5	Micro-USB for 5V power supply

Protocols

P1: DSMR 3, 4 and 5, e-MUCS
S0: Pulse with maximum frequency of 16Hz
Modbus RTU (via USB) and Modbus TCP
DLMS (via USB)
MQTT
HTTP

Storage

Internal microSD card (industrial), 5 GB reserved for data storage.

On average, 50MB per year is required per meter. This is highly dependent on the number of meters and the number of channels within the meter.

Monitoring

Maximum number of meters: 12
Maximum number of channels: 50
Readout frequency: Standard 10s and 1s with DSMR 5.0 / e-MUCS.
Storage: per minute, day and month.
Viewing options: Real-time follows the readout frequency, historical data at minute resolution.

Security

Roles: Admin and user.
Admin: can access all data and settings.
User: Can access data, but not settings.
Everyone in the local network or with physical access to the CEMM has the admin role. The user role is only enforced via remote access.

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Software

Functions: monitoring, dashboard, exports, backups, notifications, MQTT.

Functions via optional modules: webhooks, Modbus RTU, Modbus TCP, DLMS, MQTT monitoring, HTTP client, advanced access control, local CEMM display, remote CEMM display.

Interfaces: Local web application (PWA), local API, cloud web application (optional), Android/iOS app (optional).

Account: Required for remote access via web application and app.

Properties

Dimensions CEMM	111 x 129 x 34 mm
Dimensions package	160 x 120 x 80 mm
Weight CEMM	156 grams
Weight package	375 grams
Power supply	5V 1A DC (Micro-USB)
Power consumption	<2W
Material	Plastic (UL94 HB, RoHS compliant ABS plastic)
Color	Black enclosure with blue sticker
Placement	Indoors in meter cupboard or technical room
Mounting	Wall mounting with 2 screws (12cm c.t.c. distance)
Temperature	0 - 50 ° C

**Getting started**<https://cemm.nl/start>**Support**<https://cemm.nl/support>**Knowledge base**<https://wiki.cemm.nl>