S. P. Wales Ltd
Electrical Metering Specialists

Carlo Gavazzi EM112 - Summary Sheet

The EM112 is a compact 100A meter, manufactured in the EU by Italian company, Carlo Gavazzi. Remarkably, this compact unit displays both import and export energy and can record readings on two separate tariffs. It uses an integrated touch keypad and 8-digit LCD display to navigate through the meter settings.

This reliable class 1 meter displays Energy (kWh), Active Power (W), Reactive Energy (kVArh), Voltage (V), Current (I), Power Factor (pf), Frequency (Hz), kW demand and kW demand peak.

An MID approved model of this meter is available, making it suitable for billing applications, and in addition, this unit can offer a Pulse, Modbus or Mbus output for remotely reading the parameters. When supplied with a Modbus output, this meter is suited for integration with the Carlo Gavazzi's remote energy management tool, the UWP.

Specification

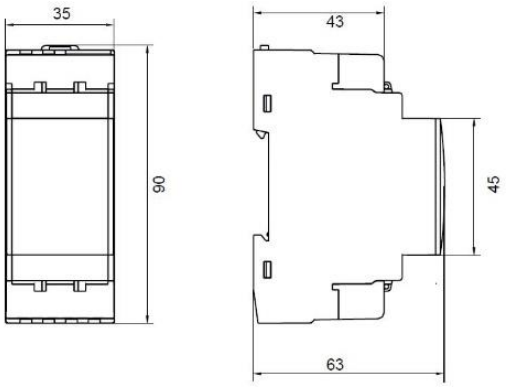
Meter Type	Single Phase
Fitting Type	DIN Rail
Max. Current (Amps)	100
MID Approved	Yes / No *
Smart	No
Input Type	Direct Connection
Output Type	Pulse / Modbus / Mbus *
Tariffs	Dual (controlled externally)
Import / Export	Import & Export
Module Width	2
Availability	See Model Variants

* Dependant on model selected

Model Variants

SPDCGEM112O	Pulse Output
SPDCGEM112S	Modbus
SPDCGEM112M	Mbus Output
SPDCGEM112OP	Pulse Output & MID
SPDCGEM112SP	Modbus Output & MID
SPDCGEM112MP	Mbus Output & MID

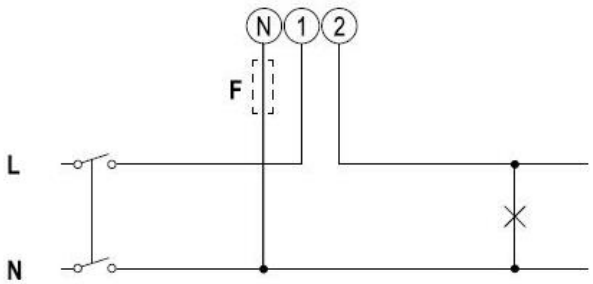
Dimensions



Measured Parameters

Active Energy (kWh)	✓	Line Power Factor (PF)	✓
Active Power (W)	✓	Line Reactive Power (kVAr)	×
Apparent Energy (kVAh)	×	Line to Line Voltage (V)	×
Apparent Power (VA)	×	Line to Neutral Voltage (V)	×
Average Current (I)	×	Maximum Current (I)	×
Average Power Demands (W)	×	Maximum Power Demands (W)	✓
Average Voltage (V)	×	Maximum Voltage (V)	×
Current (I)	✓	Power Factor (PF)	✓
Current in Neutral (I)	×	Reactive Energy (kVArh)	✓
Frequency (Hz)	✓	Reactive Power (VAr)	×
Hours Run (hr)	×	Total Harmonic Distortion (Amps)	×
Line Active Power (W)	✓	Total Harmonic Distortion (Volts)	×
Line Apparent Power (kVA)	×	Voltage (V)	✓
Line Current (I)	✓		

Wiring Diagram



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