



S. P. Wales Ltd

Electrical Metering Specialists



Carlo Gavazzi EM540 - Summary Sheet

The Carlo Gavazzi EM540 is a compact 65A direct connect, DIN Rail mounted electricity meter. It can be supplied with either Pulse, Modbus or Mbus outputs and is available with or without MID certification, (required if being used for a billing application).

The EM540 energy analyser is a versatile solution for monitoring two and three phase systems up to 415V L-L. Its features include enhanced readability with a backlit display, intuitive browsing through a user-friendly interface, and quick configuration using a startup wizard. The unit complies with precision standards and offers fiscal metrology capabilities, thanks to sliding terminal caps that prevent tampering. Flexible installation options cover various low-voltage system configurations. With an operating temperature range up to 70°C (158°F), the EM530 is a reliable choice for accurate energy measurement.

This meter, when supplied with a Modbus output, is perfectly suited for integration with the Carlo Gavazzi's remote energy management tool, the UWP.

Specification

Meter Type	Three Phase
Fitting Type	DIN Rail
Max. Current (Amps)	65
MID Approved	Yes / No *
Smart	No
Input Type	Direct Connect
Output Type	Pulse / Modbus / Mbus *
Tariffs	Dual (controlled externally)
Import / Export	Import & Export *
Accuracy class	B (Cl.1)
Max. Cable Size	16mm ²
Module Width	3
Availability	Next Day

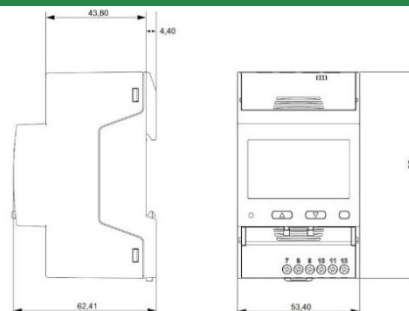
* Dependant on model selected

Model Variants

TPDCG540MPA*	Mbus Output MID App. Import Only
TPDCG540MPB*	Mbus Output MID App. Import & Export
TPDCG540MX*	Mbus Output
TPDCG540OPA*	Pulse Output MID App. Import Only
TPDCG540OPB	Pulse Output MID App. Import & Export
TPDCG540OX*	Pulse Output
TPDCG540SPA*	Modbus Output MID App. Import Only
TPDCG540SPB*	Modbus Output MID App. Import & Export
TPDCG540SX*	Modbus Output

* Available next working day

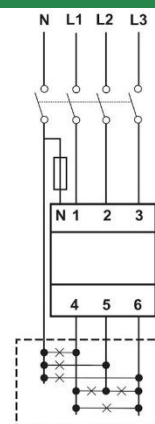
Dimensions



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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