S. P. Wales Ltd
Electrical Metering Specialists

Carlo Gavazzi EM530 - Summary Sheet

The Carlo Gavazzi EM530 is a compact 5A CT Operated, 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 EM530 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)	5
MID Approved	Yes / No *
Smart	No
Input Type	Current Transformer
Output Type	Pulse / Modbus / Mbus *
Tariffs	Dual (controlled externally)
Import / Export	Import, Export & Net *
Accuracy class	C (Cl.0.5)
Fuse Type (Volt. Ref)	315 mA
Fuse Type (Auxiliary)	n/a
Module Width	3
Availability	See Model Variants

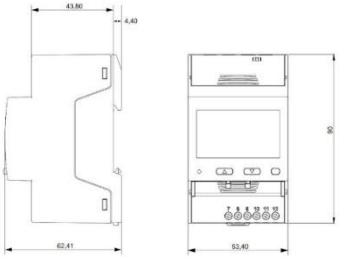
* Dependant on model selected

Model Variants

TPDCG530OX	Pulse Output
TPDCG530SX	Modbus Output
TPDCG530MX	Mbus Output
TPDCG530OPA*	Pulse Output | MID
TPDCG530SPA*	Modbus Output | MID
TPDCG530MPA*	Mbus Output | MID
TPDCG530OPB*	Pulse Output | MID | Imp. & Exp.
TPDCG530SPB*	Modbus Output | MID | Imp. & Exp.
TPDCG530MPB*	Mbus Output | MID | Imp. & Exp.
TPDCG530OPC*	Pulse Output | MID | Net
TPDCG530SPC*	Modbus Output | MID | Net

* Available next working day

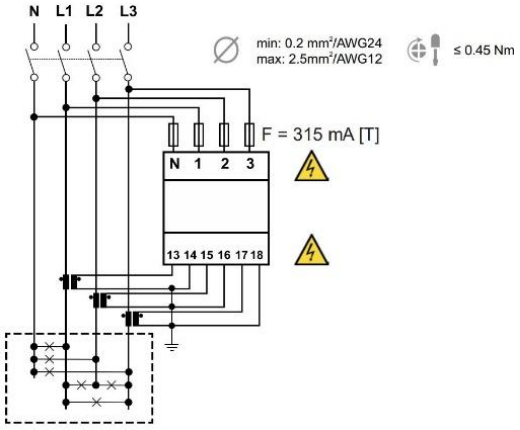
Dimensions



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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