S. P. Wales Ltd
Electrical Metering Specialists

Carlo Gavazzi EM330 - Summary Sheet

The Carlo Gavazzi EM330 is a 5A CT Operated, DIN Rail mounted electricity meter. It balances great value with essential functionality and at only 3 modules wide, it is the most compact 3-phase DIN Rail meter we've come across, ideal if space is an issue. Available with a choice of Pulse, Modbus or Mbus outputs for connection to data loggers or BMS systems, and MID approved models are available which is a requirement for billing applications.

The clear, backlit LCD display integrates a responsive touch keypad for intuitive set-up and navigation of measured parameters. It also has warning indicators for voltage order and current direction to help with installation accuracy.

It measures both imported and exported energy and has the option to be set up for dual tariffs, however it should be noted that this is externally controlled either by Modbus commands or pulses. Additionally, this meter measures the Active Energy (kWh) on each phase as well as across all three phases.

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
Accuracy class	B (Cl.1)
Fuse Type (Volt. Ref)	315 mA
Fuse Type (Auxiliary)	n/a
Module Width	3
Availability	See Model Variants

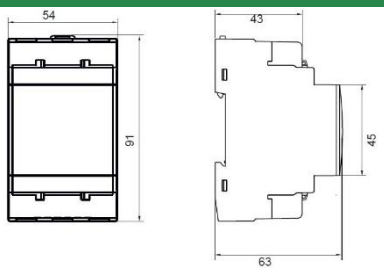
* Dependant on model selected

Model Variants

TPDCG330OX	Pulse Output
TPDCG330SX *	Modbus Output
TPDCG330MX	Mbus Output
TPDCG330OP	Pulse Output & MID
TPDCG330SP	Modbus Output & MID
TPDCG330MP	Mbus Output & MID

* Available next working day

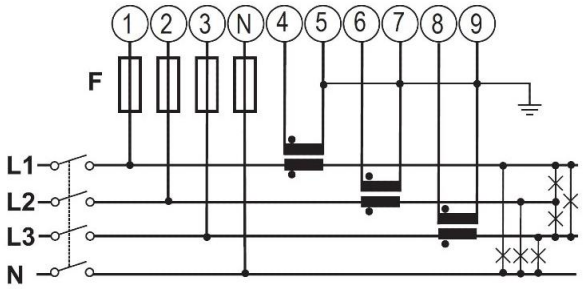
Dimensions



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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