



S. P. Wales Ltd

Electrical Metering Specialists



Carlo Gavazzi EMS - Summary Sheet

The EMS from Carlo Gavazzi is a CT operated energy management system suitable for use with current transformers with either a 5A or 0.333V secondary, (depending on the model selected). This innovative meter can be configured to measure one 3-phase or three single phase supplies but can be expanded to measure up to ten 3-phase or thirty single phase loads via expansion modules.

Configuration can be completed easily via smart phone and it includes a Modbus output for integration with Building Management Systems as well as Ethernet and WIFI connectivity, providing access to the built in web server from any internet enabled device by connecting to the EMS's IP address.

This highly accurate meter, (Cl. 0.5S), measures both Import & Exported Energy (kWh) as well as a host of other common parameters, including Current (I), Active Power (W), Frequency (Hz) and Voltage (V).

Specification

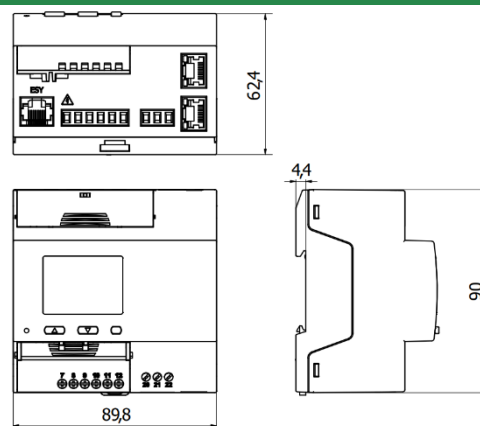
Meter Type	Three Phase
Fitting Type	DIN Rail
MID Approved	No
Smart	No
Input Type	CT Op. – 5A or 0.333V *
Output Type	Modbus / Ethernet / WIFI
Tariffs	Dual (controlled externally)
Import / Export	Import & Export
Accuracy class	Cl. 0.5S
Fuse Type (Volt. Ref)	500mA
Module Width	5
Availability	Next Day

* Dependant on model selected

Part Codes

TPDCGEMS5SX	5A CT Input
TPDCGESY5	TPDCGEMS5SX Expansion Module
TPDCGEMSVSX	0.333V CT Input
TPDCGESV	TPDCGEMSVSX Expansion Module

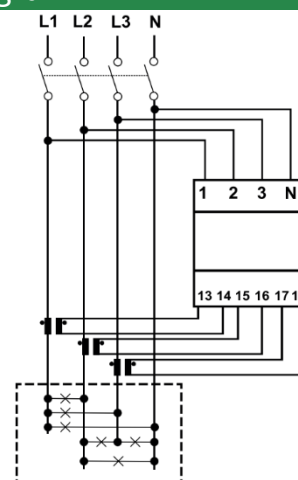
Dimensions



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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