



S. P. Wales Ltd

Electrical Metering Specialists



Carlo Gavazzi EM511 - Summary Sheet

The EM511 from Carlo Gavazzi is a direct connect energy analyser suitable for single phase supplies up to 45A. This 1 module wide DIN rail meter can be supplied with MID approval, making it suitable for billing applications, and it's available with either a Modbus or Mbus output, making it suitable for integration into compatible dataloggers or building management systems.

This bi-directional meter measures both imported & exported energy (kWh) as well as a host of other common parameters, including Current (I), Active Power (W), Frequency (Hz) and Voltage (V). It features a backlit display for easy reading and two mechanical keys for easy navigation. It also offers a digital input allowing it to be used as a dual tariff meter combined with an external time clock.

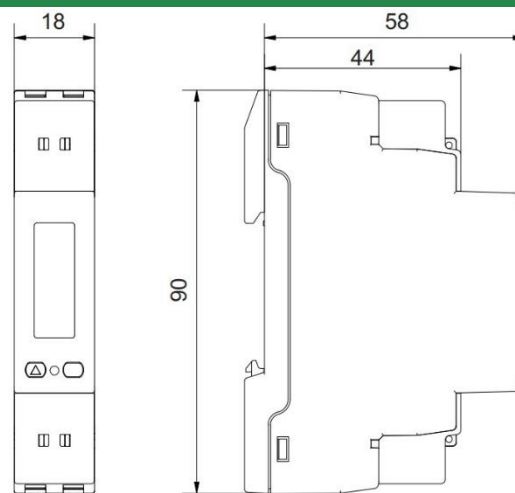
Specification

Meter Type	Single Phase
Fitting Type	DIN Rail
Max. Current (Amps)	45
MID Approved	Yes / No *
Input Type	Direct Connection
Output Type	Modbus / Mbus *
Smart	No
Tariffs	Dual (controlled externally)
Import / Export	Import & Export
Accuracy Class	B (Cl. 1)
Max. Cable Size	10mm ²
Module Width	1
Availability	Next Day
Brand	Carlo Gavazzi
Country of Manufacture	Italy
* Dependant on model selected	

Model Variants

SPDCG511MX	Mbus Output
SPDCG511SP	MID App. & Modbus Output
SPDCG511SX	Modbus Output

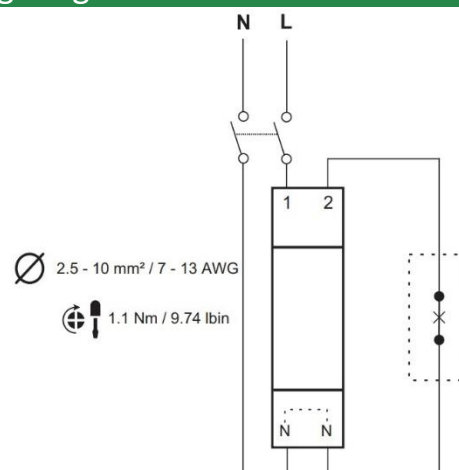
Dimensions



Measured Parameters

Active Energy (kWh)	✓	Frequency (Hz)	✓
Active Power (W)	✓	Hours Run (hr)	✓
Apparent Energy (kVAh)	✓	Maximum Current (I)	✗
Apparent Power (VA)	✓	Maximum Power Demands (W)	✓
Average Current (I)	✗	Maximum Voltage (V)	✗
Average Power Demands (W)	✗	Power Factor (PF)	✓
Average Voltage (V)	✗	Reactive Energy (kVAh)	✓
Current (I)	✓	Reactive Power (VAr)	✓
Current in Neutral (I)	✗	Voltage (V)	✓

Wiring Diagram



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