



Carlo Gavazzi - EM21-72D.AV5.3.X.OS.X - Summary Sheet

Summary

The EM21 is a 5 Amp, CT operated, three-phase energy meter. This meter is unique in that it can be installed either as a DIN Rail or 72x72mm Panel Mounted meter, making it flexible for installers.

It measures a wealth of parameters including Active Energy (kWh) and Reactive Energy (kVArh), Line to Line and Line to Neutral Voltages (V), Current (I), Power Factor (PF) and Frequency (Hz). It also measures Active Power (W), Reactive Power (Var) and Apparent Power (kVAh) both for each phase and cumulatively.

This model comes with a single programmable pulse output as standard which can be programmed to produce a pulse anywhere between 0.01 and 9.99 kWh. The pulse length options are 30ms, 100ms or 120ms. It also has RS485 Modbus communication for remote reading of all of the meters data.

This meter is suitable for 3Ph balanced and unbalanced loads as well as single and 2 phase supplies.

N.B. This meter can be pre-wired into a DIN-Rail or Panel Mounted enclosure. [Click here](#) to see our full range of Enclosures, or [click here](#) to find out more about our Pre-Wiring Service.

Product Code

TPDCGEM21SX

Meter Type

Three Phase

Fitting Type

DIN Rail & Panel Mounted

Max Current (Amps)

5

MID Approved

No

Smart

No

Input Type

Current Transformer

Output Type

RS485 Modbus & Pulse

Tariffs

Single

Import / Export

Import Only

Module Width

4

Availability

Next Day

Condition

New

Brand

Carlo Gavazzi

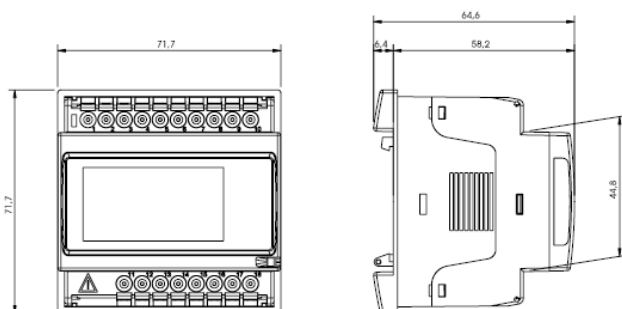
Country of Manufacture

Italy

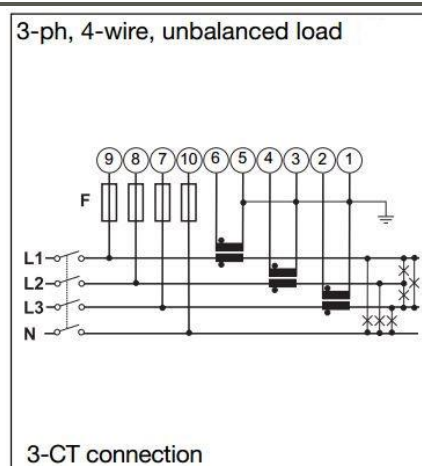
Measured Parameters

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)	✓		

Dimensions



Wiring Diagram



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