



Carlo Gavazzi - EM21-72D.AV5.3.X.OS.P/F.BP - Summary Sheet

Summary

The EM21 is a 5 Amp, CT operated, three-phase energy meter with MID approval. 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 (kVAh), 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

Meter Type
Fitting Type
Max Current (Amps)
MID Approved
Smart
Input Type
Output Type
Tariffs
Import / Export
Module Width
Availability
Condition
Brand
Country of Manufacture

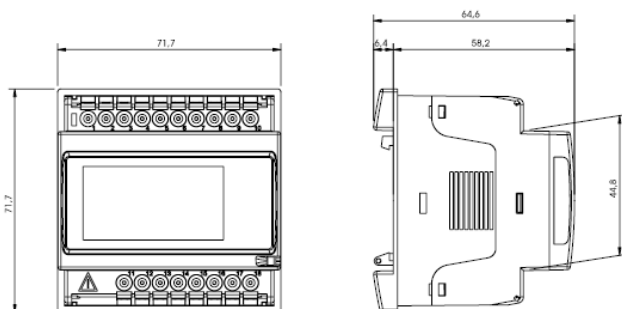
TPDCGEM21SP

Three Phase
DIN Rail & Panel Mounted
5
Yes
No
Current Transformer
RS485 Modbus & Pulse
Single
Import Only
4
Next Day
New
Carlo Gavazzi
Italy

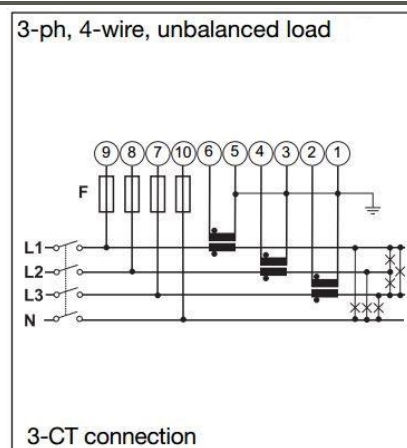
Measured Parameters

| | | | |
|---------------------------|---|-----------------------------------|---|
| 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 (kVAh) | ✓ |
| 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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