



CEM-D210, Direct three-phase energy meter

Code: Q22601.

> Módules: 4 > Certification: IEC > Transistor output: 1

> System: Three-phase

> Measure: Direct

> Measurement Range (V): 3x127(230)...3x230(400)V

> Measurement Range (A): (5) 100A

### Description

Three-phase electrical energy meter with direct measurement up to 100 A (depending on model), featuring sealable terminals and optional communication via Modbus RS-485 and M-BUS protocols (depending on model).

Main features include:

- o MID certification, modules B+D (depending on model).
- O Class 1 for active energy (Class B as per MID), Class 2 for reactive energy.
- o Compliant with EN 50470 (European MID standard) or IEC 62052-11 (international standard), depending on the model.
- O Compact size (4 DIN rail modules).
- o Resettable partial energy counter.
- o 1 programmable pulse output (depending on model).
- o 1 digital input for tariff control and pulse counting (depending on model).
- o Time-of-use tariff calendar.
- o Modbus RS-485 and M-BUS communications (depending on model).
- o Display of basic electrical parameters (V, A, kW, kWh, PF, etc.).

### **Application**

- o Meter for energy sub-metering.
- Applications where certified MID meters are required for energy verification and billing.
- o Meter used to verify the energy invoiced by the electricity distributor.
- o Energy consumption reporting and connectivity with SCADA systems.
- o Energy and cost control in industrial processes.







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### Specifications

CAT III 300 V					
< 0.5 W, < 2 VA					
50 60 Hz					
3 x 127/220 3 x 230/400 V ~ ± 20 %					
71.5 x 90 x 74 (mm)					
PC+ABS					
DIN rail (IEC 60715)					
0,38					
IP 51 (instaled) IP 40 (terminal area)					
5 95 %					
-40 +85 °C					
-40 +70 °C					
<1VA					
5 A					
0.250 A					
0.500 A					
3 x 127/220 3 x 230/400 V ~ ± 20 %					
2 LED: kWh: 4000 imp/kWh, kvarh: 4000 imp/kvarh					
2 Keys					
LCD					
4294967 kWh					
IEC-62053-21; IEC 62053-23; IEC 62053-52; IEC 62052-11; UNE-EN 50470-3; MI (EU Directive 2014/32/EU on Measuring Instruments Annex II, Module B					
Optocoupler					







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Pulse output, time period (Ton / Toff)	Ton: 200 ms / Toff:113.02 ms			
Maximum current	≤ 27 mA			
Maximum voltage	≤ 27 V			

#### Measurement accuracy

Reactive energy measurement (kvarh)	Class 2 (IEC 62053-23)
Active energy measurement (kWh)	Class 1 (IEC 62053-21)

#### CEM-D200

Three-phase electricity meter with direct measurement up to 100A

CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Transistor output	Certification	Módules	Digital inputs	Communications	Protocol
Direct th	ree-phase								
Q22601.	CEM-D210	3x127(230)3x230(400)V	(5) 100A	1	IEC	4			
Q22602.	CEM-D210 -MID	3x127(230)3x230(400)V	(5) 100A	1	MID	4			
Q22611.	CEM-D211	3x127(230)3x230(400)V	(5) 100A		IEC	4	2	RS-485	Modbus/RTL
Q22612.	CEM-D211 -MID	3x127(230)3x230(400)V	(5) 100A		MID	4	2	RS-485	Modbus/RTL
Q22621.	CEM-D212	3x127(230)3x230(400)V	(5) 100A		IEC	4	2		MBUS
Q22622.	CEM-D212 -MID	3x127(230)3x230(400)V	(5) 100A		MID	4	2		MBUS



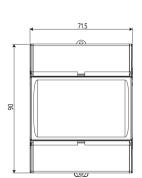


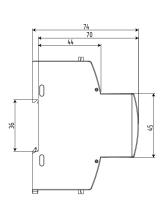


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Dimensions Connections







3Ph-4W



3Ph-3W