



CEM-C12c, Single-phase energy meter, direct connection

Code: Q27211.

> Protocol: Modbus/RTU

> Módules: 1

> Certification: IEC

> Communications: RS-485 > System: Single-phase

> Measure: Direct

> Measurement Range (V): 1 x 230 > Measurement Range (A): 5 (100) A

> Quadrants: 4

### Description

CEM-C12c is a single-phase, direct-connection electricity meter rated at up to 100 A. It measures electricity bidirectionally and features Class-1 accuracy. It also has RS-485/Modbus-RTU communications built into the same device.

Main features include:

- o Small size (1 DIN rail module, 18 mm)
- o Backlit LCD screen (6 digits) with rotating display system
- o Electrical parameter readings

### **Application**

To measure electricity consumption in buildings, machinery or the tertiary sector.

Control of partial consumption To report electricity consumption to a remote system.







Single-phase electrical energy meter, for assembly on DIN Rail

Code: Q27211.

### Specifications

Nominal voltage	230 V ~				
Mechanical characteristics					
Size (mm) width x height x depth	18 x 90 x 72 (mm)				
Envelope	PBT + 15% GF				
Fastening	Attached to a DIN rail (IEC 60715)				
Weight (kg)	0,1				
Environmental characteristics					
Protection class	IP 51 (Indoor meter)				
Relative humidity (without condensation)	95 %				
Storage temperature	-30 +70 °C				
Working temperature	-25 +70 °C				
Current measurement circuit					
Maximum current	100 A				
Voltage measurement circuit					
Nominal frequency	50/60 Hz.				
Maximum input voltage consumption	≤ 12 VA , ≤ 1 Wh				
User interface					
LED	1000 imp / kWh				
Keyboard	1 Keys				
Display type	LCD				
Maximum value	99999,9 kWh				
Standards					
Standards	IEC 62053-21, IEC 62052-11, EN 50470-1, EN 50470-3				
Measurement accuracy					
Active energy measurement (kWh)	Class 1 (IEC 62053-21)				
Serial communication					
Protocol	Modbus RTU				
Technology / Type	RS-485				







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CEM-C12c

Single-phase direct energy meter with basic analyser parameters

CODE	TYPE	Quadrants	Measurement Range (V)	Measurement Range (A)	Tariff	Certification	Módules	Communications	Protocol
Q27211.	CEM-C12c	4	1 x 230	10 (100) A	1	IEC	1	RS-485	Modbus/RTU
Q27212.	CEM-C12c-MID	4	1 x 230	0.25 5 (100) A	1	MID	1	RS-485	Modbus/RTU

Parameters: V, A, kW, kVA, kWh, cos phi







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Dimensions Connections





