



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

Direct Single-phase 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





