

## 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:

- 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.







## **Specifications**

AC power supply					
Nominal voltage	127 V ~ (± 20%)				
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	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				

## 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







Connections **Dimensions** 





