



CEM C10 212, Single-phase energy meter

Code: Q21112. CONSULTAR DISPONIBILIDAD

> Módules: 2 > Tariff: 1

> Certification: IEC> Transistor output: 1> System: Single-phase

> Measure: Direct

> Measurement Range (V): 1 x 230 > Measurement Range (A): 5 (65) A

> Max. Current (A): 65

Description

Three-phase electrical energy meter with indirect measurement, 5(10)A (, CEM-C31), direct measurement 65 A (CEM-C21) or single-phase energy meter (CEM-C10).

Built-in LCD display (7 digits) with rotating screen system. It can have integrated RS-485 communications, depending on the model.. Also features

2 buttons (1 sealable button) for viewing all the measured information.

Other features include:

- o MID certification, module B+D (depending on the type)
- o Class 1 active energy (Class B, in accordance with MID), Class 2 reactive energy
- Complies with the EN 50470 (MID European standards) or IEC 62052-11 standards (international standards), depending on the type.
- o Compact size (CEM-C10: 2 modules, 36 mm, CEM-C21 y CEM-C31: 4 modules, 72 mm)
- o Resettable partial meter
- 1 programmable impulse output, in accordance with DIN 43864 (CEM-C10, CEM-C31-T1, CEM-C21-T1 models)
- o 1 Digital input for Tariff selection and impulse count (CEM-C31-D, CEM-C21-DS)
- o Indicates bad connections on the screen
- o Energy storage, even in the case of bad connections

Application

- \circ Redundant meter for verifying the energy allocated by the energy provider.
- \circ Energy consumption report sent to a remote system (PLC/BMS).
- o Cost control for achieving a high consumption/unit ratio in industrial processes.
- $\circ~$ Display of electrical parameters (V, A, kW, kW·h, PF, etc.), per phase and three-phase.







Energy meter for DIN rail mounting

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Specifications

Installation category	CAT III 300 V				
Consumption	< 2 W, 10 VA				
Frequency	50 60 Hz				
Nominal voltage	230 V ~ ±20 %				
Mechanical characteristics					
Size (mm) width x height x depth	35 x 90 x 61 (mm)				
Weight (kg)	0,14				
Environmental characteristics					
Relative humidity (without condensation)	5 95 %				
Current measurement circuit					
Consumption	0.3 VA 10 A				
Reference current (Iref)	5 A				
Maximum current	65 A				
Minimum current measurement	0.250 A				
Transition current	0.500 A				
/oltage measurement circuit					
Nominal frequency	50 ó 60 Hz.				
Electrical characteristics					
Insulation voltage, circuit	4 kV RMS 50 Hz durante 1 min				
Standards					
Electrical safety, Maximum height (m)	2000				
Electrical safety, Maximum height (m) Standards	2000 IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3				
Standards					
Standards					
Standards Jser interface	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3				
Standards Jser interface LED	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3 2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh				
Standards Jser interface LED Keyboard	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3 2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh 2 Keys				
Standards Jser interface LED Keyboard Display type	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3 2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh 2 Keys LCD				
Standards Jser interface LED Keyboard Display type Maximum value	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3 2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh 2 Keys LCD				







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Maximum current	50 mA	
Maximum voltage	24 Vcc	
Measurement accuracy		
Reactive energy measurement (kvarh)	Class 2.0 (IEC 62053-23)	
Active energy measurement (kWh)	Class 1 (IEC 62053-21)	

Wireless communication

Technology / Type	Optical IR port (additional external receiver required)

CEM-C

Energy meter

CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Protocol	Transistor output	Digital inputs	Tariff	Certification
Indirect	three-phase								
Q23511.	CEM-C31-T	1 3 x 57/1003 x 230/400	/ 5 (10) A	-	-	1	-	1	IEC

CEM-C10 and CEM-C21/C31 without built-in RS-485 communications can optionally communicate with CEM-M-ETH and CEM-M-RS485 modules. Devices with absolute measurements (Abs). For 2 or 4 quadrants, see the Aditional table Frecuency: 50/60 Hz. Parameters: V, A, kW, kVA, kWh, cos phi

CEM-XXX-TI encoding table - Devices with pulse output (transistor)
CEM-XXX-DS-Devices with digital input for tariff change and impulse meter







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Dimensions Connections





