



CEM-C21-485-T1-MID, Direct three-phase energy meter with communications and MID certificate

Code: Q22422. CONSULTAR DISPONIBILIDAD

> Protocol: Modbus/RTU

> Módules: 4

> Tariff: 1

> Certification: MID

> Communications: RS-485

> Transistor output: 1

> System: Three-phase

> Measure: Direct

> Measurement Range (V): 3 x 127/220...3 x 230/400

> 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
- o 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)
- Resettable partial meter
- o 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

- Redundant meter for verifying the energy allocated by the energy provider.
- Energy consumption report sent to a remote system (PLC/BMS).
- o Cost control for achieving a high consumption/unit ratio in industrial processes.
- O 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

AC power supply	
Installation category	CAT III 300 V
Consumption	< 2 W, 10 VA
Frequency	50 60 Hz
Nominal voltage	230 V / 400 V ~ (± 20 %)
Mechanical characteristics	
Size (mm) width x height x depth	70 x 90 x 64 (mm)
Weight (kg)	0,38
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	
Consumption	< 2W , < 10VA (In, Vref)
Nominal frequency	50 / 60 Hz
Nominal voltage	3 x 127/220 3 x 230/400 V ~
Electrical characteristics	
Insulation voltage, circuit	4 kV RMS 50 Hz durante 1 min
Standards	
Electrical safety, Maximum height (m)	2000
Standards	EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23, EN 62056-21
Jser interface	
LED	2 LED: kWh, 4000 imp/kW, kvarh, 4000 imp/kvarh
Keyboard	2 Keys
Display type	LCD
Maximum value	999999.9 kWh











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Digital transistor outputs

Quantity 1







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Pulse output, time period (Ton / Toff)	Ton: 40 ms
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 B (EN 50470)
Serial communication	
Protocol	Modbus RTU

RS-485

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

Technology / Type







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Dimensions Connections





