



## CEM-C21c-MID

CEM-C21c-MID, Direct three-phase energy meter with communications and MID certificate

Code: Q22542.

- > Protocol: Modbus/RTU
- > Módulos: 4
- > Tariff: 1
- > Certification: MID
- > Communications: RS-485
- > Transistor output: 1
- > System: Three-phase
- > Measure: Direct
- > Measurement Range (V): 3 x 230/400
- > Measurement Range (A): 5 (100) A
- > Max. Current (A): 100

### Specifications

#### AC power supply

Consumption	< 1 W, < 12 VA
Frequency	50 Hz
Nominal voltage	230 V $\pm$ 20 % ~ (400 VPh-Ph $\pm$ 20 %)

#### Environmental characteristics

Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-40 .. +80 °C
Working temperature	-40 ... +70 °C

#### Mechanical characteristics

Envelope	PC+ABS
Fastening	DIN rail (IEC 60715)
Weight (kg)	0,38

#### Current measurement circuit

Reference current (Iref)	5 A
Maximum current	100 A
Minimum current measurement	0.250 A
Transition current	0.500 A

#### Voltage measurement circuit

Nominal frequency	50 Hz
Nominal voltage	3 x 230 Vph-n/400 Vph-ph ~

#### Electrical characteristics

Insulation voltage, circuit	4 kV RMS 50 Hz durante 1 min
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### Standards

Electrical safety, Maximum height (m)	2000
Standards	EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23, IEC 62052-11, EU Directive 2014/32/EU on Measuring Instruments Annex II, Module B

### User interface

LED	2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh
Keyboard	2 Keys
Display type	LCD
Maximum value	999999.9 kWh

### Digital inputs

Quantity	1
Type	Potential free contact
Minimum signal width	Ton ≥ 200ms, Toff ≥ 200ms

### Digital transistor outputs

Pulse width	100 ms
Quantity	1
Type	Optocoupler
Maximum current	27 mA
Maximum voltage	12 ... 27 Vcc

### Measurement accuracy

Reactive energy measurement (kvarh)	Class 2 (IEC 62053-23)
Active energy measurement (kWh)	Class B (EN 50470)

### Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

### Accesor-V2

Other charging accessories

CODE	TYPE	No. Sockets	Output type	Connector type	Grid type	Charge mode	Communications	Cable (m)	Finished	Earth leakage protection	Measurement Range (V)	Measurement Range (A)	Protocol	Transistor output	Digital inputs	Tariff	Certification
V28A00.	SONIC WALL 22	1	200-920 Vcc - 72 A - 22 kW	CCS Combo 2 o GB/T	Three-phase	4	Ethernet   4G   GPRS   GSM	5									
V25530.	eHome 5 T2C32 N	1	230 Vac- 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   Wi-Fi		Black								
V25573.	eHome 5 T2S32 M	1	230 Vac- 32 A - 7,4 kW	Type 2 socket	Single-phase	3	Ethernet   Wi-Fi		Mix								
V25570.	eHome 5 T2S32 N	1	230 Vac- 32 A - 7,4 kW	Type 2 socket	Single-phase	3	Ethernet   Wi-Fi		Black								
V25532.	eHome 5 T2C32 B	1	230 Vac- 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   Wi-Fi		White								



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V25533.	eHome 5 T2C32 M	1	230 Vac - 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   Wi-Fi		Mix								
V25540.	eHome 5 T2S32 TRI N	1	400 Vac - 32 A - 22 kW	Type 2 socket	Three-phase	3	Ethernet   Wi-Fi		Black								
V25543.	eHome 5 T2S32 TRI M	1	400 Vac - 32 A - 22 kW	Type 2 socket	Three-phase	3	Ethernet   Wi-Fi		Mix								
V25560.	eHome 5 T2C32 TRI N	1	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   Wi-Fi		Black								
V25562.	eHome 5 T2C32 TRI B	1	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   Wi-Fi		White								
V25563.	eHome 5 T2C32 TRI M	1	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   Wi-Fi		Mix								
<b>MASTER</b>																	
V20635.	URBAN-WB MASTER M2-C1		230 Vca - 32 A - 7,4 kW	Type 1 cable	Single-phase												
<b>SLAVE</b>																	
V20645.	URBAN-WB SLAVE M2-C1		230 Vca - 32 A - 7,4 kW	Type 1 cable	Single-phase												
V25030.	eHome T2C32		230 Vac - 32 A - 7,4 kW	Type 2 cable	Single-phase												
V25070.	eHome T2S32		230 Vac - 32 A - 7,4 kW	Type 2 socket	Single-phase												
V25080.	eHome T2S16 TRI		400 Vac - 16 A - 11 kW	Type 2 socket	Three-phase												
V25090.	eHome T2C16 TRI		400 Vac - 16 A - 11 kW	Type 2 cable	Three-phase												
V27540.	ePark M-S2 Gen4	1	230 Vac - 32 A - 7,4 kW	Type 2 socket	Single-phase	3	Ethernet   WiFi			6 mA CC							
V27520.	ePark M-C2 Gen4	1	230 Vac - 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   WiFi			6 mA CC							
V27522.	ePark M-2C2 Gen4	2	230 Vac - 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   WiFi			6 mA CC							
V27544.	ePark M-2S2 Gen4	2	230 Vac - 32 A - 7,4 kW	Type 2 socket	Single-phase		Ethernet   WiFi			6 mA CC							
V27640.	ePark T-S2 Gen4	1	400 Vac - 32 A - 22 kW	Type 2 socket	Three-phase	3	Ethernet   WiFi			6 mA CC							
V27620.	ePark T-C2 Gen4	1	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase		Ethernet   WiFi			6 mA CC							
V27622.	ePark T-2C2 Gen4	2	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   WiFi			6 mA CC							
V27644.	ePark T-2S2 Gen4	2	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   WiFi			6 mA CC							
<b>URBAN-WB Gen4</b>																	
V206C2.	URBAN-WB M22 Gen4	2	230 Vac - 32 A - 7,4 kW	Type 2 socket	Single-phase	3	Ethernet   Wi-Fi			Type A + 6 mAdc							
V206CA.	URBAN-WB M22-C2 Gen4	2	230 Vac - 32 A - 7,4 kW	Type 2 cable	Single-phase	3	Ethernet   Wi-Fi			Type A + 6 mAdc							
V206C3.	URBAN-WB T22 Gen4	2	400 Vac - 32 A - 22 kW	Type 2 socket	Three-phase	3	Ethernet   Wi-Fi			Type A + 6 mAdc							
V206C6.	URBAN-WB T22-C2 Gen4	2	400 Vac - 32 A - 22 kW	Type 2 cable	Three-phase	3	Ethernet   Wi-Fi			Type A + 6 mAdc							
V206C7.	URBAN-WB T24-MIX Gen4 4 (2)		400 Vac - 32 A - 22 kW   230 Vac - 32 A - 7,4 kW	Type 2 socket   Schuko	Three-phase	1   2   3	Ethernet   Wi-Fi			Type A + 6 mAdc							
Q22542.	CEM-C21c-MID						RS-485				3 x 230/400	5 (100) A	Modbus/RTU	1	-	1	MID
V40197.	Support cable																