



ⓘ Discontinued

Commercial status

Discontinued: 30 June 2013

End-of-service: 30 June 2018

Main

Range of product	PowerLogic
Device short name	CM4250
Product or component type	Circuit monitor

Complementary

Power quality analysis	<ul style="list-style-type: none"> Programmability (logic and math functions) Disturbance direction detection Voltage sag and swell detection Setpoint learning Harmonic distortion Waveform capture Up to the 255th harmonic EN 50160 compliance checking
Device application	Flicker
Type of measurement	<ul style="list-style-type: none"> Active power total Active power per phase Apparent power total Apparent power per phase Current Frequency Power factor total Power factor per phase Reactive power total Reactive power per phase Voltage
Supply voltage	<ul style="list-style-type: none"> 100...300 V DC 50/60 Hz 90...305 V AC
Network frequency	50/60 Hz
Maximum power consumption in VA	50 VA
Sampling rate	512 samples/cycle
Input type	Current 0.005...10 A (impedance < 0.1 Ohm)25 x
Measurement current	5 A
Measurement voltage	<ul style="list-style-type: none"> 0...1200 V, AC, with external VT, 0...1.5 Un 0...690 V, AC, direct, 0...1.5 Un
Measurement accuracy	<ul style="list-style-type: none"> Current: 0.025 %, (full scale) Current: 0.04 %, (reading) Frequency: 0.01 Hz, 45...67 Hz Frequency: 0.1 Hz, 350...450 Hz Power: 0.025 %, (full scale)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Power: 0.075 %, (reading)
 Voltage: 0.025 %, (full scale)
 Voltage: 0.04 %, (reading)
 Power factor: 0.002, from 0.5 leading to 0.5 lagging

Accuracy class	Class 0.2S energy conforming to ANSI C12.20 Class 0.2S energy conforming to IEC 62053-22
Number of outputs	1 pulse
Language	English German Spanish Italian Polish French
Communication port protocol	Modbus
Communication port support	RS232 RS485 RJ45: Ethernet
Data recording	Sequence of event recording Data logs Alarms Min/max of instantaneous values Event logs Time stamping Trending/forecasting
Memory capacity	32 MB

Environment

Electromagnetic compatibility	Conducted and radiated emissions: , A Electrostatic discharge immunity test: , III, conforming to IEC 61000-4-2 Electrical fast transient/burst immunity test: , III, conforming to IEC 61000-4-4 1.2/50 μ s shock waves immunity test: , IV, conforming to IEC 61000-4-5 Susceptibility to electromagnetic fields: , III, conforming to IEC 61000-4-3
Overvoltage category	IV
IP degree of protection	IP52 conforming to IEC 60529
Relative humidity	5...95 % at 40 °C
Pollution degree	2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Standards	EN 61010 UL 508 CISPR 22
Width	235.5 mm
Depth	133.1 mm
Height	165.6 mm 216.3 mm
Net weight	1.9 kg

Contractual warranty

Warranty	18 months
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