



Main

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

Complementary

Power quality analysis	Voltage sag and swell detection Waveform capture Setpoint learning Harmonic distortion Programmability (logic and math functions) EN 50160 compliance checking Disturbance direction detection Up to the 255th harmonic
Device application	Flicker
Type of measurement	Active power, total Active power, per phase Apparent power, total Apparent power, per phase Power factor, total Power factor, per phase Reactive power, total Reactive power, per phase Voltage Current Frequency
Supply voltage	100...300 V, DC, 50/60 Hz 90...305 V, AC,
Network frequency	50/60 Hz
Power consumption in VA	<= 50 VA
Sampling rate	512 samples/cycle
Input type	Current
Measurement current	5 A
Measurement voltage	0...1200 V, AC, with external VT, 0...1.5 Un 0...690 V, AC, direct, 0...1.5 Un
Measurement accuracy	Current: 0.025 %, (full scale) Current: 0.04 %, (reading) Frequency: 0.01 Hz, 45...67 Hz Frequency: 0.1 Hz, 350...450 Hz

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: 0.025 %, (full scale) 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 French German Italian Polish Spanish
Communication port protocol	Modbus
Communication port support	RS485 Ethernet RJ45 RS232
Data recording	Alarms Data logs Event logs Min/Max of instantaneous values Sequence of event recording Time stamping Trending/Forecasting
Memory capacity	32 MB

Environment

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

Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant Will not be compliant
------------------------	---

Contractual warranty

Warranty period	18 months
-----------------	-----------



PowerLogic ION7550 | ION7650

Advanced power quality analysis and revenue-accurate meters

Energy and power quality meter for utility network, mains or critical loads

Reason for Substitution: End of life | Substitution date: 30 January 2013 | -