



Main

Range of product	PowerLogic PM800
Device short name	PM810
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 31st harmonic
Type of measurement	Power factor (per phase) Energy Reactive power (per phase) Active power (per phase) Apparent power (per phase) Reactive power (total) Active power (total) Apparent power (total) Power factor (total) Frequency Voltage Current
Supply voltage	115...415 V AC (350...450 Hz) 115...415 V AC (45...67 Hz) 125...250 V DC
Network frequency	45...67 Hz 350...450 Hz
Power consumption in VA	15 VA
Display type	Integrated LCD display
Display resolution	6 lines
Sampling rate	128 samples/cycle
Measurement current	5 A 1 A
Input type	Current 0.005...10 A (impedance \leq 0.1 Ohm)
Measurement voltage	0...347 V AC phase to neutral 0...600 V AC phase to phase
Number of inputs	1 digital 0...5 mA 24...125 V AC/DC
Measurement accuracy	\pm 0.2 % power \pm 0.002 power factor \pm 0.01 Hz frequency \pm 0.2 % energy \pm 0.2 % voltage (10...227 V) \pm 0.5 % current (0.5...10 A)
Accuracy class	Class 0.2 (active energy according to ANSI C12.20) Class 0.5S (active energy according to IEC 62053-22) Class 2 (reactive energy according to IEC 62053-23)
Number of outputs	1 digital (static)
Communication port protocol	Modbus
Communication port support	RS485

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Data recording	Alarms Min/Max of instantaneous values Time stamping GPS synchronisation Without memory
Transmission rate	38.4 kbauds

Environment

Electromagnetic compatibility	Immunity to microbreaks and voltage drops class class III, conforming to IEC 61000-4-11 Immunity to impulse waves class class III, conforming to IEC 61000-4-8 Conducted RF disturbances class class III, conforming to IEC 61000-4-6 1.2/50 μ s shock waves immunity test class class III, conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test class class III, conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields class class III, conforming to IEC 61000-4-3 Electrostatic discharge immunity test class class III, conforming to IEC 61000-4-2 Conducted and radiated emissions, conforming to EN 55011 class B Requirements for household appliances, electric tools and similar apparatus, conforming to IEC 61000-3-3 Limits for harmonic current emissions, conforming to IEC 61000-3-2 Immunity to impulse waves, conforming to IEC 61000-4-12
Mounting mode	Flush-mounted
Mounting support	Panel
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	IP52 (front face) conforming to IEC 60529 IP30 (back) conforming to IEC 60529
Relative humidity	90 % 40 °C
Pollution degree	2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...3000 m
Standards	IEC 61010-1 UL 508 CSA C22.2 No 14
Product certifications	CE CULus
Width	96 mm
Depth	70 mm (meter)
Height	96 mm
Product weight	0.6 kg

Contractual warranty

Period	18 months
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