



Main

Range of product	PowerLogic
Device short name	PM5110
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 15th harmonic
Device application	Power monitoring
Type of measurement	Active and reactive power Energy Power factor Frequency Voltage Current
Supply voltage	125...250 V DC 100...415 V AC (45...65 Hz)
Network frequency	45...65 Hz
Power consumption in VA	10 VA at 415 V
Display type	Backlit LCD
Display resolution	128 x 128
Sampling rate	64 samples/cycle
Measurement current	10 mA...9 A
Analogue input type	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
Measurement voltage	35...480 V AC 45...65 Hz between phases 20...277 V AC 45...65 Hz between phase and neutral
Number of inputs	3 current transformer
Measurement accuracy	± +/- 0.5 % voltage ± +/- 0.5 % current ± +/- 0.005 % power factor ± +/- 0.05 % frequency ± +/- 0.5 % apparent power ± +/- 0.5 % active power ± +/- 2 % reactive energy ± +/- 0.5 % active energy
Accuracy class	Class 2 (reactive energy according to IEC 62053-24) Class 0.5S (active energy according to IEC 62053-22)
Number of outputs	1 digital
Communication port protocol	RS485: 2 wires, 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V
Data recording	Min/Max of instantaneous values Time stamping
Mounting mode	Flush-mounted
Mounting support	Framework

Standards	IEC 60529 IEC 61557-12 IEC 62053-22 EN 50470-1 EN 50470-3 IEC 62053-24
Product certifications	CULus conforming to UL 61010-1 CE conforming to IEC 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Product weight	380 kg

Environment

Electromagnetic compatibility	Conducted and radiated emissions class class B, conforming to EN 55022 Immunity to magnetic fields class 4, conforming to IEC 61000-4-8 Conducted radio-frequency immunity test class 3, conforming to IEC 61000-4-6 Electrostatic discharge class 4, conforming to IEC 61000-4-2 Harmonics class class A, conforming to IEC 61000-3-2
IP degree of protection	IP30 (body) conforming to IEC 60529 IP52 (front) conforming to IEC 60529
Relative humidity	5...95 % 50 °C
Pollution degree	2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m