



Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5341
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 31st harmonic
Device application	Power monitoring Multi-tariff
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	50 Hz 60 Hz
[In] rated current	1 A 5 A
Type of network	1P + N 3P 3P + N
Power consumption in VA	10 VA at 415 V
Display type	Backlit LCD
Display resolution	128 x 128 pixels
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	20...400 V AC 45...65 Hz between phase and neutral 35...690 V AC 45...65 Hz between phases
Frequency measurement range	45...65 Hz
Number of inputs	2 digital
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 0.5S (active energy according to IEC 62053-22)
Number of outputs	2 digital 2 relay
Information displayed	Tariff 4

Communication port protocol	Modbus TCP/IP : 10/100 Mbit/s, insulation: 2500 V
Communication port support	Ethernet
Data recording	Data logs Event logs Min/Max of instantaneous values Time stamping Alarm logs Maintenance logs
Memory capacity	256 kB
Mounting mode	Flush-mounted
Mounting support	Framework
Standards	IEC 60529 IEC 61557-12 IEC 62053-22 EN 50470-1 EN 50470-3 UL 61010-1 IEC 62053-24
Product certifications	MID conforming to EN 50470-3 MID conforming to EN 50470-1 CULus conforming to UL 61010-1 CE conforming to IEC 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Product weight	430 g

Environment

Electromagnetic compatibility	• conducted and radiated emissions class class B, conforming to EN 55022 • magnetic field at power frequency class level 4, conforming to IEC 61000-4-8 • conducted RF disturbances class level 3, conforming to IEC 61000-4-6 • electrostatic discharge class level 4, conforming to IEC 61000-4-2 • limits for harmonic current emissions 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