



## Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5111
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	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
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	1 digital
Communication port protocol	JBUS Modbus RTU and ASCII 2 wires, : 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V
Communication port support	RS485

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	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	380 g

## Environment

Electromagnetic compatibility	<ul style="list-style-type: none"> <li>• conducted and radiated emissions class class B, conforming to EN 55022</li> <li>• magnetic field at power frequency class level 4, conforming to IEC 61000-4-8</li> <li>• conducted RF disturbances class level 3, conforming to IEC 61000-4-6</li> <li>• electrostatic discharge class level 4, conforming to IEC 61000-4-2</li> <li>• limits for harmonic current emissions class class A, conforming to IEC 61000-3-2</li> </ul>
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