



Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5310
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 31st harmonic
Device application	Multi-tariff Power monitoring
Type of measurement	Current Voltage Frequency Power factor Energy Active and reactive power
Supply voltage	100...415 V AC 45...65 Hz 125...250 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 5 A
Type of network	1P + N 3P 3P + N
Maximum power consumption in VA	10 VA at 415 V
Ride-through time	80 Ms 120 V AC typical 100 Ms 230 V AC typical 100 ms 415 V AC typical
Display type	Backlit LCD
Display resolution	128 x 128 pixels
Sampling rate	64 samples/cycle
Measurement current	10...9000 mA
Analogue input type	Voltage (impedance 5 MΩ) Current (impedance 0.3 mΩ)
Measurement voltage	35...690 V AC 45...65 Hz between phases 20...400 V AC 45...65 Hz between phase and neutral
Frequency measurement range	45...65 Hz
Number of inputs	2 digital
Measurement accuracy	Active energy +/- 0.5 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.005 Current +/- 0.5 % Voltage +/- 0.5 %

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Accuracy class	Class 0.5S active energy conforming to IEC 62053-22
Number of outputs	2 digital
Information displayed	Tariff (4)
Communication port protocol	Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V JBUS
Communication port support	RS485
Data recording	Event logs Min/Max of instantaneous values Alarm logs Data logs Time stamping Maintenance logs
Memory capacity	256 kB
Connections - terminals	Voltage circuit: screw terminal block4 Control circuit: screw terminal block2 Current transformer: screw terminal block6 Input/Output circuit: screw terminal block6 Relay output: screw terminal block4 Ethernet network: RJ45 connector
Mounting mode	Flush-mounted
Mounting support	Framework
Standards	EN 50470-3 IEC 62053-24 IEC 60529 EN 50470-1 UL 61010-1 IEC 62053-22 IEC 61557-12
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Net weight	430 g

Environment

Electromagnetic compatibility	Limits for harmonic current emissions class A conforming to IEC 61000-3-2 Electrostatic discharge level 4 conforming to IEC 61000-4-2 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency level 4 conforming to IEC 61000-4-8 Conducted and radiated emissions class B conforming to EN 55022
IP degree of protection	IP52 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
Relative humidity	5...95 % at 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	550 g
Package 1 Height	11 cm
Package 1 width	12.6 cm
Package 1 Length	12.6 cm
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Weight	6.554 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Weight	62.01 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	<input checked="" type="checkbox"/> Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins