



## 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	Power monitoring Multi-tariff
Type of measurement	Voltage Current Frequency Power factor Energy Active and reactive power
[Us] rated 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
Poles description	1P + N 3P 3P + N
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	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
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	+/- 0.5 % active energy +/- 2 % reactive energy +/- 0.5 % active power +/- 0.5 % apparent power +/- 0.05 % frequency +/- 0.005 % power factor +/- 0.5 % current +/- 0.5 % voltage
Accuracy class	Class 0.5S (active energy according to IEC 62053-22)
Number of outputs	2 digital

Information displayed	Tariff 4
Communication port protocol	Modbus RTU and ASCII 2 wires, : 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V JBUS
Communication port support	RS485
Data recording	Data logs Event logs Min/max of instantaneous values Time stamping Alarm logs Maintenance logs
Memory capacity	256 kB
Connections - terminals	Voltage circuit: 4 screw terminal block Control circuit: 2 screw terminal block Current transformer: 6 screw terminal block Input/output circuit: 6 screw terminal block Relay output: 4 screw terminal block Ethernet network: RJ45 connector
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	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Product weight	430 g

## Environment

electromagnetic compatibility	<ul style="list-style-type: none"> <li>• conducted and radiated emissions class class B, conforming to EN 55022</li> <li>• limits for harmonic current emissions class class A, conforming to IEC 61000-3-2</li> <li>• electrostatic discharge class level 4, conforming to IEC 61000-4-2</li> <li>• conducted RF disturbances class level 3, conforming to IEC 61000-4-6</li> <li>• magnetic field at power frequency class level 4, conforming to IEC 61000-4-8</li> </ul>
IP degree of protection	IP52 (front) conforming to IEC 60529 IP30 (body) 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

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1321 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available