



Main

Range	PowerLogic
Product name	PowerLogic PM8000
Device short name	PM8240
Product or component type	Power meter

Complementary

Power quality analysis	Power quality monitoring IEC 62586 Programmability (logic and math functions) Voltage sag and swell detection Waveform capture Harmonic distortion Up to the 63rd harmonic Power quality measurement IEC 61000-4-30 : class S Compliance report EN 50160
Device application	WAGES metering Power monitoring
Type of measurement	Power factor (per phase, rms) Apparent power (per phase, rms) Active and reactive power (per phase, rms) Power factor (total) Apparent power (total) Active and reactive power (total) Frequency Voltage Current
Supply voltage	120...300 V DC +/- 10 % 90...415 V AC +/- 10 % (45...65 Hz)
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 10 A 5 A
Poles description	1P + N 3P 3P + N
Power consumption in VA	18...36 VA at 415 V AC
Display type	Colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Sampling rate	256 samples/cycle
Measurement current	50 mA...10 A
Analogue input type	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
Measurement voltage	100...690 V AC 42...69 Hz between phases 57...400 V AC 42...69 Hz between phase and neutral
Frequency measurement range	42...69 Hz

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Number of inputs	3 digital 60 V DC 3 digital 30 V AC
Measurement accuracy	+/- 0.2 % active energy +/- 0.1 % voltage +/- 0.1 % current
Accuracy class	Class 0.2 (current according to IEC 61557-12) Class 0.2 (voltage according to IEC 61557-12) Class 0.5 (power factor according to IEC 61557-12) Class 0.5S (reactive energy according to IEC 62053-24) Class 0.2 (active power according to IEC 61557-12) Class 0.2 (active energy according to ANSI C12.20) Class 0.2S (active energy according to IEC 62053-22)
Number of outputs	1 pulse
Information displayed	Harmonic distortion Energy consumption Power Frequency Current Voltage
Communication port protocol	RSTP 801.1d 2004 Ethernet Modbus TCP/IP daisy chain : 10/100 Mbit/s, Modbus TCP/IP IEC 61850 DNP3 ION 2-wire, : 115 kbauds, Modbus RTU 2-wire, : 115 kbauds,
Communication port support	RS485 (screw terminal block) Ethernet
Data recording	Data logs Event logs Min/Max of instantaneous values Sequence of event recording Time stamping Trending/Forecasting GPS synchronisation Alarm logs Harmonics logs Sag and swell logs Waveform logs
Memory capacity	512 MB
Web services	Alarm notification by e-mail File upload/download via FTP HTTP server Customizable home page
Communication service	NTP time synchronization SMTP e-mail notification SNMP RSTP support
Mounting mode	Flush-mounted
Mounting support	Framework
Installation category	III
Safety Construction	CSA C22.2 No 61010-1 : CAT III, 347...600 V ed. 3 UL 61010-1 : CAT III, 347...600 V ed. 3 EN 61010-1 : CAT III, 400...690 V ed. 3 IEC 61010-1 : CAT III, 400...690 V ed. 3
Standards	IEC 61557-12 IEC 62053-22 IEC 62052-11 IEC 62053-24
Product certifications	China RoHS N998 CULus CE
Width	96 mm
Depth	77.5 mm
Height	96 mm
Product weight	581 g

Environment

Electromagnetic compatibility	• surge withstand, conforming to IEEE C37.90.1 • conducted RF disturbances 2...150 Hz, conforming to CLC/TR 50579 • conducted and radiated emissions, conforming to ICES-003 • conducted and radiated emissions, conforming to FCC Part 15 • conducted and radiated emissions, conforming to EN 55011 • conducted and radiated emissions, conforming to EN 55022 • immunity to impulse waves, conforming to IEC 61000-4-12 • voltage dips and interruptions immunity test, conforming to IEC 61000-4-11 • magnetic field at power frequency, conforming to IEC 61000-4-8 • conducted RF disturbances, conforming to IEC 61000-4-6 • surge immunity test, conforming to IEC 61000-4-5 • electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 • radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3 • electrostatic discharge, conforming to IEC 61000-4-2
IP degree of protection	IP30 (body) conforming to IEC 60529 IP54 (front) conforming to IEC 60529
Relative humidity	5...95 %
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	3000 m

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1425 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual