Product data sheet Characteristics

METSEPM8243

PowerLogic PM8000 - PM8243 DIN rail mount meter - intermediate metering





Main

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Range	PowerLogic
Product name	PowerLogic PM8000
Device short name	PM8243
Product or component type	Power meter

Complementary

r /		
Power quality analysis	Waveform capture Harmonic distortion	
	Programmablity (logic and math functions)	
	Voltage sag and swell detection	
	Up to the 63rd harmonic	
	Compliance report EN 50160	
	Power quality monitoring IEC 62586	
	Power quality measurement IEC 61000-4-30 : class S	
Device application	WAGES metering	
	Power monitoring	
Type of measurement	Power factor (total)	
	Apparent power (total)	
	Active and reactive power (total)	
	Active and reactive power (per phase, rms)	
	Apparent power (per phase, rms)	
	Power factor (per phase, rms)	
	Voltage	
	Current	
	Frequency	
[Us] rated supply voltage	90415 V AC +/- 10 % (4565 Hz)	
[co] rates supply restage	110415 V DC +/- 10 %	
Network frequency	60 Hz	
, ,	50 Hz	
[In] rated current	10 A	
	5 A	
	1 A	
Poles description	3P	
-	3P + N	

1P + N

	1P + N
Power consumption in VA	18 VA at 415 V AC
Power consumption in VA	36 VA at 415 V AC
Display type	Without display
Sampling rate	256 samples/cycle
Measurement current	5010000 mA
Analogue input type	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
Measurement voltage	57400 V AC 4269 Hz between phase and neutral 100690 V AC 4269 Hz between phases
Frequency measurement range	4269 Hz
Number of inputs	3 digital 30 V AC 3 digital 60 V DC
Measurement accuracy	+/- 0.2 % active energy +/- 0.1 % voltage +/- 0.1 % current
Accuracy class	Class 0.2 (active energy according to ANSI C12.20) Class 0.2S (active energy according to IEC 62053-22) Class 0.2 (active power according to IEC 61557-12) Class 0.5S (reactive energy according to IEC 62053-24) Class 0.5 (power factor according to IEC 61557-12) Class 0.2 (voltage according to IEC 61557-12) Class 0.2 (current according to IEC 61557-12)
Number of outputs	1 pulse
Information displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion
Communication port protocol	DNP3 IEC 61850 Modbus RTU 2-wire, : 115 kbauds, ION 2-wire, : 115 kbauds, Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain : 10/100 Mbit/s, RSTP 801.1d 2004
Communication port support	Ethernet RS485 (screw terminal block)
Communication network type	IPv6 (internet protocol)
Data recording	Event logs Alarm logs Time stamping Harmonics logs Sag and swell logs GPS synchronisation Waveform logs Min/Max of instantaneous values Data logs Trending/Forecasting Sequence of event recording
Memory capacity	512 MB
Web services	Viewing of captured waveform Web server Alarm notification by e-mail File upload/download via FTP Customizable home page HTTP server
Communication service	NTP time synchronization RSTP support SMTP e-mail notification DHCP
Cybersecurity	Port hardening Password protection Enable/Disable communication ports Robust security logs Syslog protocol support

Mounting mode	Clip-on
Mounting support	DIN rail
Installation category	III
Isolation voltage	IEC 61010-1 : CAT III, 400690 V ed. 3 EN 61010-1 : CAT III, 400690 V ed. 3 UL 61010-1 : CAT III, 347600 V ed. 3 CSA C22.2 No 61010-1 : CAT III, 347600 V ed. 3
Standards	IEC 62053-24 IEC 61557-12 IEC 62053-22 IEC 62052-11
Product certifications	N998 China RoHS CULus CE
Width	90.5 mm
Depth	90.8 mm
Height	90.5 mm
Product weight	528 g

Environment

Electromagnetic compatibility	 electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 conducted RF disturbances, conforming to IEC 61000-4-6 		
	 radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3 		
	 voltage dips and interruptions immunity test, conforming to IEC 61000-4-11 electrostatic discharge, conforming to IEC 61000-4-2 surge immunity test, conforming to IEC 61000-4-5 magnetic field at power frequency, conforming to IEC 61000-4-8 conducted and radiated emissions, conforming to EN 55022 conducted and radiated emissions, conforming to EN 55011 conducted and radiated emissions, conforming to FCC Part 15 conducted and radiated emissions, conforming to ICES-003 conducted RF disturbances 2150 Hz, conforming to CLC/TR 50579 		
		 surge withstand, conforming to IEEE C37.90.1 	
		IP degree of protection	IP30 conforming to IEC 60529
		Relative humidity	595 %
		Ambient air temperature for operation	-2570 °C
		Ambient air temperature for storage	-4085 °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
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available