Product data sheet

Specifications





PowerLogic

PowerLogic PM8000

Power quality meter, PowerLogic PM8000, Standard, transducer and remote display, 512 MB, 256 s/c

METSEPM8214

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 10,142.30 USD

Main Range

Product Name

Device Short Name	PM8214	
Product Or Component Type	Power meter	
Complementary		
Power Quality Analysis	EN 50160 2010 compliance report IEEE 519 2014 compliance report IEC 61000-4-30 class S power quality measurement up to the 63rd harmonic harmonic distortion waveform capture voltage sag and swell detection	
	programmablity (logic and math functions) IEC 62586 power quality monitoring disturbance direction detection rapid voltage change	
Device Application	Power monitoring WAGES metering	
Type Of Measurement	Current Voltage Frequency Active and reactive power total Apparent power total Power factor total Active and reactive power per phase, rms Apparent power per phase, rms Power factor per phase, rms	
Supply Voltage	2060 V DC +/- 10 %	
Network Frequency	50 Hz 60 Hz	
Line Rated Current	5 A 1 A 10 A	
Poles Description	3P 1P + N 3P + N	
Power Consumption In W	17 W	
Display Type	Remote LCD display	
Display Resolution	320 x 240 pixels QVGA	
Sampling Rate	256 samples/cycle	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Measurement Current	5010000 mA		
Analogue Input Type	Voltage (impedance 5 MOhm) Current (impedance 0.3 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	Current +/- 0.1 % Voltage +/- 0.1 % Active energy +/- 0.2 %		
Accuracy Class	Class 0.2S active energy IEC 62053-22 Class 0.2 active energy ANSI C12.20 Class 0.2 active power IEC 61557-12 Class 0.5S reactive energy IEC 62053-24 Class 0.5 power factor IEC 61557-12 Class 0.2 voltage IEC 61557-12 Class 0.2 current IEC 61557-12		
Number Of Outputs	1 pulse		
Information Displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion		
Communication Port Protocol	Modbus RTU 115 kbauds - 2-wire ION 115 kbauds - 2-wire DNP3 IEC 61850 Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain 10/100 Mbit/s RSTP 801.1d 2004		
Communication Port Support	ETHERNET Screw terminal block RS485		
Communication Network Type	IPv6 (internet protocol)		
Data Recording	Harmonics logs Waveform logs Trending/forecasting Event logs Alarm logs Data logs Sequence of event recording Sag and swell logs Min/max of instantaneous values Time stamping GPS synchronisation 50 data recorders		
Memory Capacity	512 MB		
Web Services	Customizable home page File upload/download via FTP File upload/download via SFTP Web server Alarm notification by e-mail Viewing of captured waveform (FTP) Viewing of captured waveform (web) HTTPS server		
Communication Service	RSTP support DHCP SMTP e-mail notification NTP time synchronization SNMP PTP time synchronization		

Cybersecurity	Enable/disable communication ports Robust security logs Port hardening Password protection Syslog protocol support	
Mounting Mode	Clip-on Flush-mounted	
Mounting Support	DIN rail meter device Framework remote display	
Provided Equipment	Remote display	
Installation Category	III	
Safety Construction	III400690 V conforming to IEC 61010-1:ed. 3 III400690 V conforming to EN 61010-1:ed. 3 III347600 V conforming to UL 61010-1:ed. 3 III347600 V conforming to CSA C22.2 No 61010-1:ed. 3	
Standards	IEC 61557-12 IEC 62052-11 IEC 62053-24 IEC 62053-22 IEEE 1588 IEC 62586-2 IEC 61326-1	
Product Certifications	CE CULus N998	
Width	3.56 in (90.5 mm)	
Depth	3.57 in (90.8 mm)	
Height	3.56 in (90.5 mm)	
Net Weight	18.62 oz (528 g)	

Environment

Electromagnetic Compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test conforming to IEC
	61000-4-3
	Electrical fast transient/burst immunity test conforming to IEC 61000-4-4
	Surge immunity test conforming to IEC 61000-4-5
	Conducted RF disturbances conforming to IEC 61000-4-6
	Magnetic field at power frequency conforming to IEC 61000-4-8
	Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
	Immunity to impulse waves conforming to IEC 61000-4-12
	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	-13158 °F (-2570 °C)
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Operating Altitude	9842.52 ft (3000 m)

Ordering and shipping details

Category	US10PL109797
Discount Schedule	0PL1
Gtin	3606481384560

Returnability	No	
Country Of Origin	US	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.51 in (14 cm)
Package 1 Width	5.51 in (14 cm)
Package 1 Length	14.57 in (37 cm)
Package 1 Weight	3.17 lb(US) (1.437 kg)
Unit Type Of Package 2	S03
Number Of Units In Package 2	4
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	13.64 lb(US) (6.189 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	16
Package 3 Height	17.72 in (45 cm)
Package 3 Width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)
Package 3 Weight	73.32 lb(US) (33.256 kg)



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

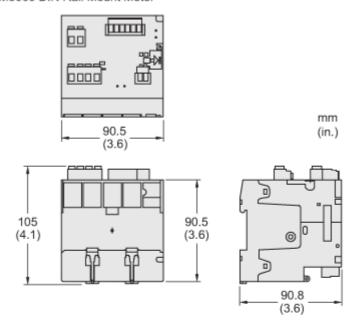
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	End of Life Information	
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov	

Dimensions Drawings

Approximate Dimensions

PM8000 DIN Rail Mount Meter



PM8000 Remote Display

