# METSEPM8240

# PowerLogic PM8000 - PM8240 Panel mount meter - intermediate metering





#### Main

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

#### Complementary

Power quality analysis  Conforming to IEEE 519: 2014 compliance report Up to the 63rd harmonic Harmonic distortion Waveform capture Voltage sag and swell detection Programmability (logic and math functions) Conforming to IEC 62586 power quality monitoring Up to the 63rd ble Conforming to IEC 62586 power quality monitoring WAGES metering  Type of measurement  Current Voltage Frequency Active and reactive power total Apparent power total Apparent power total Active and reactive power per phase, rms Apparent power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Apparent power total Active and reactive power per phase, rms Power factor total Active and reactive power per phase, rms Active and reactive		
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Power factor per phase, rms		
Supply voltage         90415 V AC 4565 Hz +/- 10 %           Network frequency         50 Hz 60 Hz           [In] rated current         1 A 5 A 10 A           Poles description         3P + N 3P 1P + N           Power consumption in VA         18 VA at 415 V AC           Display type         Colour TFT LCD           Display resolution         320 x 240 pixels QVGA           Sampling rate         256 samples/cycle           Measurement current         5010000 mA           Analogue input type         Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)		
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Poles description  3P + N 3P 1P + N  Power consumption in VA  18 VA at 415 V AC  Display type  Colour TFT LCD  Display resolution  320 x 240 pixels QVGA  Sampling rate  256 samples/cycle  Measurement current  5010000 mA  Analogue input type  Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)	[In] rated current	
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Analogue input type  Voltage (impedance 5 MOhm)  Current (impedance 0.3 mOhm)	Sampling rate	256 samples/cycle
Current (impedance 0.3 mOhm)	Measurement current	5010000 mA
	Analogue input type	
Measurement voltage 57400 V AC 4269 Hz between phase and neutral		Current (impedance 0.3 mOhm)
	Measurement voltage	57400 V AC 4269 Hz between phase and neutral
100690 V AC 4269 Hz between phases		100690 V AC 4269 Hz between phases
Frequency measurement range 4269 Hz	Frequency measurement range	4269 Hz
Number of inputs 3 digital 30 V AC	Number of inputs	3 digital 30 V AC
3 digital 60 V DC		3 digital 60 V DC

Measurement accuracy	Current +/- 0.1 % Voltage +/- 0.1 % Active energy +/- 0.2 %
Accuracy class	Class 0.2S active energy conforming to IEC 62053-22 Class 0.2 active energy conforming to ANSI C12.20 Class 0.2 active power conforming to IEC 61557-12 Class 0.5S reactive energy conforming to IEC 62053-24 Class 0.5 power factor conforming to IEC 61557-12 Class 0.2 voltage conforming to IEC 61557-12 Class 0.2 current conforming to IEC 61557-12
Number of outputs	1 pulse
Information displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion
Communication port protocol	Modbus RTU at 115 kbauds - 2-wire ION at 115 kbauds - 2-wire DNP3 IEC 61850 Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s RSTP 801.1d 2004
Communication port support	ETHERNET Screw terminal block: RS485
Communication network type	IPv6 (internet protocol)
Data recording	Min/Max of instantaneous values Waveform logs Sequence of event recording Time stamping Alarm logs Trending/Forecasting Sag and swell logs Harmonics logs GPS synchronisation Data logs Event logs
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	SMTP e-mail notification RSTP support NTP time synchronization DHCP PTP time synchronization
Cybersecurity	Enable/Disable communication ports Password protection Syslog protocol support Robust security logs Port hardening
Mounting mode	Flush-mounted
Mounting support	Framework
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	96 mm
Depth	77.5 mm
Height	96 mm
Product weight	581 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 and radiated emissions combining 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	IP54 front: conforming to IEC 60529
	IP30 body: 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

## Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	14 cm	
Package 1 Width	14 cm	
Package 1 Length	18.5 cm	
Package 1 Weight	0.954 kg	

### Offer Sustainability

Office Oddital lability	
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Compliant EEU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	<sup>™</sup> China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	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
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov