



## Main

Range	PowerLogic
Product name	PowerLogic PM8000
Device short name	PM8340
Product or Component Type	Power meter
Model type	Advanced

## Complementary

Power quality analysis	<ul style="list-style-type: none"> <li>EN 50160 2010 compliance report</li> <li>IEEE 519 2014 compliance report</li> <li>IEC 61000-4-30 class A power quality measurement</li> <li>Up to the 63rd harmonic</li> <li>IEC 61000-4-15 harmonic distortion</li> <li>EN 50160 2010 waveform capture</li> <li>IEEE 519 2014 voltage sag and swell detection</li> <li>Programmability (logic and math functions)</li> <li>IEC 62586 power quality monitoring</li> <li>Disturbance direction detection</li> <li>IEC 61000-4-15 flicker</li> <li>Rapid voltage change</li> </ul>
Device Application	<ul style="list-style-type: none"> <li>Power monitoring</li> <li>WAGES metering</li> </ul>
Type of measurement	<ul style="list-style-type: none"> <li>Current per phase, rms</li> <li>Voltage</li> <li>Frequency total</li> <li>Active and reactive power total</li> <li>Apparent power total</li> <li>Power factor total</li> <li>Active and reactive power per phase, rms</li> <li>Apparent power per phase, rms</li> <li>Power factor per phase, rms</li> </ul>
Supply voltage	<ul style="list-style-type: none"> <li>90...415 V AC 45...65 Hz +/- 10 %</li> <li>110...415 V DC +/- 10 %</li> </ul>
Network Frequency	<ul style="list-style-type: none"> <li>50 Hz</li> <li>60 Hz</li> </ul>
Line Rated Current	<ul style="list-style-type: none"> <li>1 A</li> <li>5 A</li> <li>10 A</li> </ul>
Poles description	<ul style="list-style-type: none"> <li>3P + N</li> <li>3P</li> <li>1P + N</li> </ul>
Power Consumption in VA	16 VA 230 V AC
Display Type	Colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Sampling rate	512 samples/cycle
Measurement current	50...10000 mA
Analogue input type	<ul style="list-style-type: none"> <li>Voltage (impedance 5 MOhm)</li> <li>Current (impedance 0.3 mOhm)</li> </ul>
Measurement voltage	<ul style="list-style-type: none"> <li>57...400 V AC 42...69 Hz between phase and neutral</li> <li>100...690 V AC 42...69 Hz between phases</li> </ul>

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Frequency measurement range	42...69 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	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 64 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	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	III400...690 V conforming to IEC 61010-1:ed. 3 III400...690 V conforming to EN 61010-1:ed. 3 III347...600 V conforming to UL 61010-1:ed. 3 III347...600 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[RETURN]CULus[RETURN]N998
Width	3.8 in (96 mm)
Depth	3.05 in (77.5 mm)
Height	3.8 in (96 mm)
Net Weight	20.5 oz (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 (2...150 Hz) 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 (2...150 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	5...95 %
Ambient air temperature for operation	-13.0000000000...158.0000000000 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40.0000000000...185.0000000000 °F (-40...85 °C)
Operating altitude	9842.52 ft (3000 m)

## Ordering and shipping details

Category	US10PL109797
Discount Schedule	OPL1
GTIN	3606486874752
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 in (14.0 cm)
Package 1 Width	5.5 in (14.0 cm)
Package 1 Length	7.3 in (18.5 cm)
Package 1 Weight	33.7 oz (954 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.8 in (30 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	18.047 lb(US) (8.186 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.