Product data sheet

Specifications



Power quality meter, PowerLogic PM8000, Advanced, integrated display, 512MB, 512s/c

METSEPM8340

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

Main

Range	PowerLogic
Product name	PowerLogic PM8000
Product or Component Type	Power meter
Device short name	PM8340
Market segment	Buildings large building cost management: billing: sub feeder Buildings small building network management: main incomer Buildings medium building network management: main incomer Buildings large building network management: main incomer Buildings large building network management: sub feeder Buildings multi-site network management: main incomer Buildings multi-site network management: sub feeder Data center network management: main incomer Data center small building network management: sub feeder Healthcare large building network management: main incomer Healthcare multi-site network management: sub feeder Industry multi-site network management: main incomer Industry network management: sub feeder Utility network management: sub feeder
model type	Advanced

Complementary

Power quality analysis	EN 50160 2010 compliance report IEEE 519 2014 compliance report IEC 61000-4-30 class A power quality measurement up to the 63rd harmonic IEC 61000-4-15 harmonic distortion EN 50160 2010 waveform capture IEEE 519 2014 voltage sag and swell detection programmablity (logic and math functions) IEC 62586 power quality monitoring disturbance direction detection IEC 61000-4-15 flicker rapid voltage change
Device Application	Power monitoring WAGES metering
Type of measurement	Current per phase, rms Voltage Frequency total 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	90...415 V AC 45...65 Hz +/- 10 % 110...415 V DC +/- 10 %
Network Frequency	50 Hz 60 Hz

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Line Rated Current	1 A 5 A 10 A
Poles description	3P + N 3P 1P + N
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	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
Measurement voltage	57…400 V AC 42...69 Hz between phase and neutral 100…690 V AC 42...69 Hz between phases
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 CULus N998
Width	3.8 in (96 mm)
Depth	3.05 in (77.5 mm)
Height	3.8 in (96 mm)
Product 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…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)

Operating altitude	9842.52 ft (3000 m)
Compatibility code	PM8240

Ordering and shipping details

Category	US10PL109797
Discount Schedule	0PL1
GTIN	3606486874752
Returnability	Yes
Country of origin	CA

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.472 in (13.900 cm)
Package 1 Width	5.630 in (14.300 cm)
Package 1 Length	7.441 in (18.900 cm)
Package weight(Lbs)	30.265 oz (858.000 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**298 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**97 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.4 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**199 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**03520ddb-79bb-4c6d-89b9-5e4182b3a577**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**17**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Image of product / Alternate images

Alternative

