

Product datasheet

Specifications



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

METSEPM8344

EAN Code: 3606486874776

Main

Range	PowerLogic
Product name	PowerLogic PM8000
Product or component type	Power meter
Device short name	PM8344
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 large building network management: billing: 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	conforming to EN 50160: 2010 compliance report conforming to IEEE 519: 2014 compliance report conforming to IEC 61000-4-30: class A power quality measurement up to the 63rd harmonic harmonic distortion waveform capture conforming to IEC 62586 voltage sag and swell detection conforming to IEC 61000-4-15 programmability (logic and math functions) conforming to IEC 62586: 2014 power quality monitoring conforming to IEC 61000-4-30: class A disturbance direction detection conforming to IEC 61000-4-15 flicker rapid voltage change
Device application	WAGES metering Power monitoring
Type of measurement	Current per phase, rms Voltage per phase, rms Frequency per phase, rms 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

[In] rated current	10 A 5 A 1 A
Poles description	3P 1P + N 3P + N
Power consumption in VA	16 VA at 230 V AC
Display type	Remote LCD display
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 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	Sequence of event recording Event logs Min/max of instantaneous values Harmonics logs Alarm logs GPS synchronisation Waveform logs Data logs Time stamping Trending/forecasting Sag and swell logs 64 data recorders
Memory capacity	512 MB

Web services	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> SMTP e-mail notification RSTP support NTP time synchronization DHCP PTP time synchronization
Cybersecurity	<ul style="list-style-type: none"> Password protection Syslog protocol support Port hardening Robust security logs Enable/disable communication ports
Mounting mode	<ul style="list-style-type: none"> Flush-mounted Clip-on
Mounting support	<ul style="list-style-type: none"> DIN rail meter device Framework remote display
Provided equipment	<ul style="list-style-type: none"> Remote display
Installation category	III
Safety Construction	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> IEC 62053-22 IEC 62053-24 IEC 62052-11 IEC 61557-12 IEEE 1588 IEC 62586-2 IEC 61326-1
Product certifications	<ul style="list-style-type: none"> CE CULus N998
Width	90.5 mm
Depth	90.8 mm
Height	90.5 mm
Net weight	528 g

Environment

Electromagnetic compatibility	<ul style="list-style-type: none"> 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 (2...150 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	5...95 %

Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	3000 m
Compatibility code	PM8244

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 cm
Package 1 Width	14.000 cm
Package 1 Length	37.000 cm
Package 1 Weight	1.437 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.302 kg

Contractual warranty

Warranty	18 months
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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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard

No

Packaging without single use plastic

No

[EU RoHS Directive](#)

Compliant with Exemptions

SCIP Number

03520ddb-79bb-4c6d-89b9-5e4182b3a577

REACH Regulation

[REACH Declaration](#)

Use Again

Repack and remanufacture


End of life manual availability

[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