

# Product datasheet

Specifications



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

METSEPM8340

EAN Code: 3606486874752

### 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	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 conforming to IEC 61000-4-15 harmonic distortion conforming to EN 50160: 2010 waveform capture conforming to IEEE 519: 2014 voltage sag and swell detection programmability (logic and math functions) conforming to IEC 62586 power quality monitoring disturbance direction detection conforming to 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

<b>[In] rated current</b>	1 A 5 A 10 A
<b>Poles description</b>	3P + N 3P 1P + N
<b>Power consumption in VA</b>	16 VA at 230 V AC
<b>Display type</b>	Colour TFT LCD
<b>Display resolution</b>	320 x 240 pixels QVGA
<b>Sampling rate</b>	512 samples/cycle
<b>Measurement current</b>	50...10000 mA
<b>Analogue input type</b>	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
<b>Measurement voltage</b>	57...400 V AC 42...69 Hz between phase and neutral 100...690 V AC 42...69 Hz between phases
<b>Frequency measurement range</b>	42...69 Hz
<b>Number of inputs</b>	3 digital 30 V AC 3 digital 60 V DC
<b>Measurement accuracy</b>	Current +/- 0.1 % Voltage +/- 0.1 % Active energy +/- 0.2 %
<b>Accuracy class</b>	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
<b>Number of outputs</b>	1 pulse
<b>Information displayed</b>	Voltage Current Frequency Power Energy consumption Harmonic distortion
<b>Communication port protocol</b>	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
<b>Communication port support</b>	ETHERNET Screw terminal block: RS485
<b>Communication network type</b>	IPv6 (internet protocol)
<b>Data recording</b>	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
<b>Memory capacity</b>	512 MB

<b>Web services</b>	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
<b>Communication service</b>	SMTP e-mail notification RSTP support NTP time synchronization DHCP PTP time synchronization
<b>Cybersecurity</b>	Enable/disable communication ports Password protection Syslog protocol support Robust security logs Port hardening
<b>Mounting mode</b>	Flush-mounted
<b>Mounting support</b>	Framework
<b>Installation category</b>	III
<b>Safety Construction</b>	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
<b>Standards</b>	IEC 61557-12 IEC 62052-11 IEC 62053-24 IEC 62053-22 IEEE 1588 IEC 62586-2 IEC 61326-1
<b>Product certifications</b>	CE CULus N998
<b>Width</b>	96 mm
<b>Depth</b>	77.5 mm
<b>Height</b>	96 mm
<b>Net weight</b>	581 g

## Environment

<b>Electromagnetic compatibility</b>	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
<b>IP degree of protection</b>	IP54 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
<b>Relative humidity</b>	5...95 %
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C

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Operating altitude	3000 m
Compatibility code	PM8240

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## Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.900 cm
Package 1 Width	14.300 cm
Package 1 Length	18.900 cm
Package 1 Weight	858.000 g

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## Logistical informations

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Country of origin	CA
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## Contractual warranty

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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

Total lifecycle Carbon footprint 298

Environmental Disclosure [Product Environmental Profile](#)

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard Yes

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

Recyclability potential, in % 17

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

Image of product / Alternate images

Alternative

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