Product data sheet

Specifications



Power quality meter, PowerLogic PM8000, Standard, integrated display, 512 MB, 256 s/c, RMICan approved

METSEPM82403

Main

Range	PowerLogic
Product name	PowerLogic PM8000
Product or component type	Power meter
Device short name	PM8240
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 network management: sub feeder Healthcare network management: main incomer Healthcare network management: sub feeder Industry network management: main incomer Industry network management: sub feeder Utility: sub feeder
model type	Standard

Complementary

Power quality analysis	conforming to EN 50160 compliance report conforming to IEC 61000-4-30: class S power quality measurement up to the 63rd harmonic harmonic distortion waveform capture voltage sag and swell detection programmablity (logic and math functions) conforming to IEC 62586 power quality monitoring disturbance direction detection rapid voltage change
Device application	Power monitoring WAGES metering
Type of measurement	Current Voltage Frequency 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	5 A 10 A 1 A

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

Poles description	1P + N 3P + N 3P
Power consumption in VA	16 VA at 230 V AC
Display type	Colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Sampling rate	256 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
Data recording	Event logs Time stamping Sequence of event recording Waveform logs Min/max of instantaneous values Alarm logs GPS synchronisation Harmonics logs Sag and swell logs Data logs Trending/forecasting 50 data recorders
Memory capacity	512 MB
Web services	HTTP server Alarm notification by e-mail Customizable home page File upload/download via FTP Web server

Communication service	SMTP e-mail notification NTP time synchronization RSTP support SNMP
Tamperproof of settings	RMICAN protected
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 62053-24 IEC 62053-22 IEC 62052-11
Product certifications	CE CULus N998
Width	96 mm
Depth	77.5 mm
Height	96 mm
Net weight	581 g
Targeted country	Canada

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 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	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Operating altitude	3000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	362.874 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: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**

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**