Product data sheet

Specifications

Power quality meter, PowerLogic PM8000, Essential, integrated display, 64 MB, 128 s/c

METSEPM8110

Main

Range	PowerLogic
Product name	PowerLogic PM8000
Product or component type	Power meter
Device short name	PM8110
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 large building network management: billing: sub feeder Industry multi-site network management: main incomer Industry network management: sub feeder Utility network management: sub feeder
model type	Essential

Complementary

Power quality analysis	conforming to EN 50160: 2010 compliance report conforming to IEEE 519: 2014 compliance report 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
Device application	Power monitoring WAGES metering
Type of measurement	Current total 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	20...60 V DC +/- 10 %
Network frequency	60 Hz 50 Hz
[In] rated current	10 A 5 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	3P 1P + N 3P + N
Power consumption in W	18 W
Display type	Colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Sampling rate	128 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	Data logs Harmonics logs Waveform logs Min/max of instantaneous values Trending/forecasting Sag and swell logs Sequence of event recording GPS synchronisation Alarm logs Event logs Time stamping 10 data recorders
Memory capacity	64 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	NTP time synchronization SMTP e-mail notification DHCP RSTP support SNMP PTP time synchronization
Cybersecurity	Syslog protocol support Password protection Port hardening Enable/disable communication ports Robust security logs
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 62052-11 IEC 61557-12 IEC 62053-22 IEC 62053-24 IEEE 1588 IEC 62586-2 IEC 61326-1
Product certifications	CE CULus N998
Width	96 mm
Depth	77.5 mm
Height	96 mm
Product weight	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 (2...150 Hz) 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 Height	14.000 cm
Package 1 Width	13.500 cm
Package 1 Length	19.000 cm
Package 1 Weight	814.000 g

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

Image of product / Alternate images

Alternative