Product datasheet

Specifications

Power quality meter, PowerLogic PM8000, Standard, integrated display, 512 MB, 256 s/c, MID certified

METSEPM82401

Main

Range	PowerLogic
Product Name	PowerLogic PM8000
Device Short Name	PM8240
Product Or Component Type	Power meter

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 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	WAGES metering Power monitoring
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	1 A 10 A 5 A
Poles Description	3P + N 1P + N 3P
Power Consumption In Va	18 VA at 415 V AC
Display Type	Colour TFT LCD
Display Resolution	320 x 240 pixels QVGA
Sampling Rate	256 samples/cycle
Measurement Current	50…10000 mA

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

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	Time stamping Sequence of event recording GPS synchronisation Min/max of instantaneous values Event logs Sag and swell logs Harmonics logs Trending/forecasting Data logs Alarm logs Waveform logs 50 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	RSTP support SMTP e-mail notification NTP time synchronization SNMP PTP time synchronization
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 62053-22 IEC 62053-24 IEEE 1588 IEC 62586-2 IEC 61326-1
Product Certifications	CE CULus N998 MID
Width	96 mm
Depth	77.5 mm
Height	96 mm
Net 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 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 cm
Package 1 Width	13.5 cm
Package 1 Length	18.5 cm
Package 1 Weight	938 g

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information