# **Product datasheet**

Specifications





Power quality meter, PowerLogic PM8000, Standard, transducer, 512 MB, 256 s/c

METSEPM8243

#### Main

IVIAIII	
Range	PowerLogic
Product Name	PowerLogic PM8000
Device Short Name	PM8243
Product Or Component Type	Power meter

### Complementary

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 programmability (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	90415 V AC 4565 Hz +/- 10 % 110415 V DC +/- 10 %
Network Frequency	50 Hz 60 Hz
[In] Rated Current	1 A 10 A 5 A
Poles Description	1P + N 3P + N 3P
Power Consumption In Va	18 VA at 415 V AC
Display Type	Without display
Sampling Rate	256 samples/cycle
Measurement Current	5010000 mA
Analogue Input Type	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)

Measurement Voltage	57400 V AC 4269 Hz between phase and neutral 100690 V AC 4269 Hz between phases
Frequency Measurement Range	4269 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	Harmonics logs Sag and swell logs GPS synchronisation Time stamping Data logs Trending/forecasting Waveform logs Alarm logs Sequence of event recording Min/max of instantaneous values Event 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	SMTP e-mail notification DHCP RSTP support NTP time synchronization PTP time synchronization
Cybersecurity	Password protection Port hardening Enable/disable communication ports Robust security logs Syslog protocol support
Mounting Mode	Clip-on

Mounting Support	DIN rail
Installation Category	III
Safety Construction	III400690 V conforming to IEC 61010-1:ed. 3 III400690 V conforming to EN 61010-1:ed. 3 III347600 V conforming to UL 61010-1:ed. 3 III347600 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
Width	90.5 mm
Depth	90.8 mm
Height	90.5 mm
Net Weight	528 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 FCC part 15 Conducted and radiated emissions conforming to ICES-003 Conducted RF disturbances (2150 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	595 %
Ambient Air Temperature For Operation	-2570 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	3000 m

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	14.0 cm
Package 1 Length	18.5 cm
Package 1 Weight	0.854 kg
Unit Type Of Package 2	\$03
Number Of Units In Package 2	8
Package 2 Height	30.0 cm

Package 2 Width	30.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	7.487 kg	

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Rohs Exemption Information

#### **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