Product datasheet

Specifications

PM3255 power meter - 2 digital I - 2 digital O - RS485

METSEPM3255

Main

Range	PowerLogic
Product name	PowerLogic PM3000
Device short name	PM3255
Product or component type	Power meter

Complementary

Power quality analysis	up to the 15th harmonic
Device application	Multi-tariff Power monitoring Sub billing
Type of measurement	Active and reactive power Apparent power Current Voltage Energy Power factor Frequency Total current harmonic distortion THD (I) Total voltage harmonic distortion THD (U)
supply voltage	100...277 V AC 45...65 Hz 173...480 V AC 45...65 Hz 100...300 V DC
Network frequency	60 Hz 50 Hz
[In] rated current	5 A 1 A
type of network	3P 3P + N 1P + N
Power consumption in VA	5 VA
Display type	Backlit LCD
display resolution	128 x 96 pixels
Sampling rate	32 samples/cycle
Measurement current	0.02…1.2 A 0.05…6 A
Analogue input type	Current 0...5 A Current 0...1 A
Measurement voltage	50…330 V AC 45...65 Hz direct 50…330 V AC 45...65 Hz phase to neutral 80…570 V AC 45...65 Hz direct 80…570 V AC 45...65 Hz phase to phase 570…999000 V AC 45...65 Hz with external VT

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

Frequency measurement range	45…65 Hz
Number of inputs	2 digital 0...4 mA 11...40 V DC
Measurement accuracy	Current 0.3 % 0.5...6 A Current 0.5 % 0.1...1.2 A Voltage 0.3 % 50...330 V Voltage 0.3 % 80...570 V
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22 Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class C active energy conforming to EN 50470-3
Number of outputs	2 digital (static)
Information displayed	Tariff (4)
Communication port protocol	Modbus at 9.6...38.4 kbauds
Communication port support	RS485
Data recording	Energy consumption logs 15 alarms Power logs Time stamping Min/max of instantaneous values
Memory capacity	512 KB
Mounting mode	Clip-on
Mounting support	DIN rail
Standards	BS EN 61557-12 IEC 61557-12 EN 61557-12 BS EN 61326-1 IEC 61326-1 EN 61326-1 BS EN 62052-11 IEC 62052-11 EN 62052-11 BS EN 62053-21 IEC 62053-21 EN 62053-21 BS EN 62053-22 IEC 62053-22 EN 62052-22 BS EN 62053-23 IEC 62053-23 EN 62052-23 BS EN 61010-1 EN 61010-1 IEC 61010-1 UL 61010-1 BS EN 61010-2-30 IEC 61010-2-30 EN 61010-2-30 UL 61010-2-30 ANSI C12.20
Product certifications	CE conforming to IEC 61010-1 (safety) CE conforming to EN 61557-12 (power monitor) CE conforming to EN/IEC 61326-1 (EMC) UKCA conforming to BS EN 61010-1 (safety) UKCA conforming to BS EN 61557-12 (power monitor) UKCA conforming to BS EN 61326-1 (EMC) CULus conforming to EN 61010-1 (safety) CULus conforming to UL 61010-1 (safety) EAC (sub-meter) RCM
Width	90 mm
Depth	70 mm
Height	95 mm
Net weight	0.26 kg

Environment

Electromagnetic compatibility	Electrostatic discharge level 4 conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Surge immunity test level 4 conforming to IEC 61000-4-5 Conducted RF disturbances level 3 conforming to IEC 61000-4-6 Magnetic field at power frequency - test level: 0.5 mT conforming to IEC 61000-4-8 Conducted and radiated emissions class B conforming to EN 55022
Overvoltage category	III
IP degree of protection	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
Relative humidity	5…95 % at 50 °C
Pollution degree	2
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	13.5 cm
Package 1 Width	13.5 cm
Package 1 Length	9.0 cm
Package 1 Weight	410.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.036 kg
Unit Type of Package 3	P12
Number of Units in Package 3	384
Package 3 Height	95.0 cm
Package 3 Width	80.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	177.864 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} 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

Mercury Free	
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