Product data sheet

Specifications



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

METSEPM3255

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	PowerLogic
Product name	PowerLogic PM3000
Product or Component Type	Power meter
Device short name	PM3255
Market segment	Buildings small building cost management: billing: sub feeder Buildings medium building cost management: billing: sub feeder Buildings large building cost management: billing: sub feeder Buildings multi-site cost management: billing: sub feeder Data center cost management: billing: sub feeder Healthcare cost management: billing: sub feeder Industry cost management: billing: sub feeder Buildings small building cost management: cost allocation: sub feeder Buildings medium building cost management: cost allocation: sub feeder Buildings large building cost management: cost allocation: sub feeder Buildings multi-site cost management: cost allocation: sub feeder Data center cost management: cost allocation: sub feeder Healthcare cost management: cost allocation: sub feeder Industry cost management: cost allocation: sub feeder

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
Line 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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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
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 IEC 62053-22 Class 1 active energy IEC 62053-21 Class 2 reactive energy IEC 62053-23 Class C active energy EN 50470-3
Number of Outputs	2 digital (static)
Information displayed	Tariff 4)
Communication port protocol	Modbus 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 IEC 61010-1 safety) CE EN 61557-12 power monitor) CE EN/IEC 61326-1 EMC) UKCA BS EN 61010-1 safety) UKCA BS EN 61557-12 power monitor) UKCA BS EN 61326-1 EMC) CULus EN 61010-1 safety) CULus UL 61010-1 safety) EAC sub-meter) RCM
Width	3.5 in (90 mm)
Depth	2.8 in (70 mm)
Height	3.7 in (95 mm)
Net Weight	0.57 lb(US) (0.26 kg)
Market Segment	Small commercial Residential

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 % 122 °F (50 °C)
Pollution degree	2
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Operating altitude	< 9842.52 ft (3000 m)
Compatibility code	PM3255

Ordering and shipping details

Category	US10PL109786
Discount Schedule	0PL1
GTIN	3606480481611
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.701 in (9.400 cm)
Package 1 Width	5.472 in (13.900 cm)
Package 1 Length	5.512 in (14.000 cm)
Package weight(Lbs)	14.885 oz (422.000 g)
Unit Type of Package 2	S03

Number of Units in Package 2	16
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	15.512 lb(US) (7.036 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	384
Package 3 Height	37.402 in (95.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	47.244 in (120.000 cm)
Package 3 Weight	392.123 lb(US) (177.864 kg)

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	**105 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**11 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**92 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.8 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
SCIP Number	**3255e6c8-2417-4c31-a11c-24ab24365eec**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Again

Repack and remanufacture

Recyclability potential, in %	**9**
Circularity Profile	**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.**