Product datasheet

Specifications



PM3250 power meter, PM3000 series, RS485

METSEPM3250

Main

Range	PowerLogic
Product name	PowerLogic PM3000
Product or component type	Power meter
Device short name	PM3250
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
[In] rated current	5 A 1 A
type of network	1P + N 3P 3P + N
Power consumption in VA	5 VA
Display type	Backlit LCD
Display resolution	128 x 96 pixels

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	0
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	0
Information displayed	Tariff (4)
Communication port protocol	Modbus at 9.6...38.4 kbauds
Communication port support	RS485
Data recording	Time stamping Min/max of instantaneous values 5 alarms
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
Product weight	0.26 kg
Market segment	Residential Small commercial

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
Compatibility code	PM3250

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.700 cm
Package 1 Width	13.500 cm
Package 1 Length	13.500 cm
Package 1 Weight	416.800 g
Unit Type of Package 2	S03
Number of Units in Package 2	25
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.810 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	**14fb2653-c8ec-4b50-bf4c-c102dc70e1c3**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**9**
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**