

# Product datasheet

Specifications



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

METSEPM3255

⚠ Discontinued on: Nov 1, 2020

⚠ Discontinued

### 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

<b>Measurement voltage</b>	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
<b>Frequency measurement range</b>	45...65 Hz
<b>Number of inputs</b>	2 digital 0...4 mA 11...40 V DC
<b>Measurement accuracy</b>	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
<b>Accuracy class</b>	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
<b>Number of outputs</b>	2 digital (static)
<b>Information displayed</b>	Tariff (4)
<b>Communication port protocol</b>	Modbus at 9.6...38.4 kbauds
<b>Communication port support</b>	RS485
<b>Data recording</b>	Energy consumption logs 15 alarms Power logs Time stamping Min/max of instantaneous values
<b>Memory capacity</b>	512 KB
<b>Mounting mode</b>	Clip-on
<b>Mounting support</b>	DIN rail
<b>Standards</b>	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
<b>Product certifications</b>	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
<b>Width</b>	90 mm

<b>Depth</b>	70 mm
<b>Height</b>	95 mm
<b>Net weight</b>	0.26 kg

## Environment

<b>Electromagnetic compatibility</b>	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
<b>overvoltage category</b>	III
<b>IP degree of protection</b>	IP40 front panel: conforming to IEC 60529 IP20 body: conforming to IEC 60529
<b>Relative humidity</b>	5...95 % at 50 °C
<b>Pollution degree</b>	2
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	< 3000 m

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	13.5 cm
<b>Package 1 Width</b>	13.5 cm
<b>Package 1 Length</b>	9.0 cm
<b>Package 1 Weight</b>	410.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	7.036 kg
<b>Unit Type of Package 3</b>	P12
<b>Number of Units in Package 3</b>	384
<b>Package 3 Height</b>	95.0 cm
<b>Package 3 Width</b>	80.0 cm
<b>Package 3 Length</b>	120.0 cm
<b>Package 3 Weight</b>	177.864 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## 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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Packaging

Packaging made with recycled cardboard

No

Packaging without single use plastic

No

SCIP Number

3255e6c8-2417-4c31-a11c-24ab24365eec

China RoHS Regulation

[China RoHS declaration](#)


## Use Again

### Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

WEEE

 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No