

Product datasheet

Specifications



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

Local distributor code: 397407015 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
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	IEC 61557-12 EN 50470-3 EN 61557-12 EN 50470-1 EN 61010-1 UL 61010-1 IEC 62052-11
Product certifications	CE conforming to EN 61010-1 CULus conforming to UL 61010-1 UL
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 1.2/50 µs shock waves 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...55 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...3000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	410.0 g
Package 1 Height	13.5 cm
Package 1 width	13.5 cm
Package 1 Length	9 cm
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	7.036 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P12
Number of Units in Package 3	384
Package 3 Weight	177.864 kg
Package 3 Height	95 cm
Package 3 width	80 cm
Package 3 Length	120 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
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

Contractual warranty

Warranty	18 months
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