Product datasheet

Specifications

power meter PowerLogic PM5310, modbus, up to 31st Harmonic, 256KB 2DI/2DO 35 alarms

METSEPM5310

Main

Range	PowerLogic
product name	PowerLogic PM5000
Device short name	PM5310
Product or component type	Power meter

Complementary

Power quality analysis	up to the 31st harmonic
Device application	Multi-tariff Power monitoring
Type of measurement	Current Voltage Frequency Power factor Energy Active and reactive power
supply voltage	90...450 V AC 45...65 Hz 100...300 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 5 A
type of network	1P + N 3P 3P + N
Maximum power consumption in VA	11 VA at 415 V
Ride-through time	80 ms 120 V AC typical 100 ms 230 V AC typical 100 ms 415 V AC typical 50 ms 125 V DC typical
Display type	Monochrome graphic LCD
Display resolution	128 x 128 pixels
Sampling rate	64 samples/cycle
Measurement current	5…8500 mA
Analogue input type	Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm)
Measurement voltage	35…760 V AC 45...65 Hz between phases 20…440 V AC 45...65 Hz between phase and neutral
Frequency measurement range	45…65 Hz
Number of inputs	2 digital

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Measurement accuracy	Active energy +/- 0.5 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.5 Current +/- 0.5 % Voltage +/- 0.5 % Apparent energy +/- 0.5 % Reactive power +/- 2 %
Accuracy class	Class 0.5S active energy conforming to IEC 62053-22
Number of outputs	2 digital
Information displayed	Tariff (4)
Communication port protocol	Modbus RTU and ASCII at 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires, insulation 2500 V JBUS
Communication port support	RS485
Data recording	Event logs Min/max of instantaneous values Alarm logs Data logs Time stamping Maintenance logs
Memory capacity	256 kB
Connections - terminals	Voltage circuit: screw terminal block4 Control circuit: screw terminal block2 Current transformer: screw terminal block6 Input/output circuit: screw terminal block6 Relay output: screw terminal block4 Ethernet network: RJ45 connector
Mounting mode	Flush-mounted
Mounting support	Framework
Standards	EN 50470-3 IEC 62053-24 IEC 60529 EN 50470-1 UL 61010-1 IEC 62053-22:2020 IEC 61557-12:2015 IEC 62053-23:2020 IEC 62052-11:2020 IEC 62052-31:2015
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Net weight	430 g

Environment

Electromagnetic compatibility	Conducted and radiated emissions class A conforming to EN 55011
	Limits for harmonic current emissions class A conforming to IEC 61000-3-2
	Immunity to conducted disturbances - test level: 150 kHz...80 MHz level 3 conforming to IEC 61000-4-6
	Voltage dips and interruptions immunity test level 4 conforming to IEC 61000-4-11
	Conducted RF disturbances level 3 conforming to IEC 61000-4-6
	Magnetic field at power frequency level 4 conforming to IEC 61000-4-8
	Conducted and radiated emissions class B conforming to EN 55022
	Limitation of voltage changes, voltage fluctuations and flicker in low-voltage conforming to IEC 61000-3-3
	Electrostatic discharge - test level: 8 kV level 4 conforming to IEC 61000-4-2
	Radiated radio-frequency electromagnetic field immunity test 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
	Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
IP degree of protection	IP54 display: conforming to IEC 60529
	IP30 rear: conforming to IEC 60529
Relative humidity	5…95 % at 50 °C non-condensing
Pollution degree	2
Ambient air temperature for operation	-25…70 °C meter
	-20…70 °C display
	-25…-20 °C (with reduced performance) display
Ambient air temperature for storage	-40…85 °C
Operating altitude	2000 m CAT III
	3000 m CAT II

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	12.600 cm
Package 1 Length	12.600 cm
Package 1 Weight	473.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.333 kg
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	62.012 kg

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 Substances

EU RoHS Directive	**Compliant with Exemptions**

Use Again

Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**