

METSEPM5310R

PM5310R powermeter w modbus - upto 31st H -
256K 2DI/2DO 35alarms - RJ45 LVCT



Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5310R
Product or component type	Power meter
Market segment	Buildings / Small building (Energy Cost management) for Main incomer in Billing Buildings / Medium building (Energy Cost management) for Sub feeder in Billing Buildings / Multi-site (Energy Cost management) for Main incomer in Billing Datacenter (Energy Cost management) for Sub feeder in Billing Buildings / Medium building (Energy Cost management) for Main incomer in Cost allocation Buildings / Large building (Energy Cost management) for Sub feeder in Cost allocation Datacenter (Energy Cost management) for Main incomer in Cost allocation Healthcare (Energy Cost management) for Sub feeder in Cost allocation Buildings / Large building (Energy Network management) Sub feeder in Healthcare (Energy Network management) Sub feeder in Buildings / Large building (Energy Cost management) for Main incomer in Billing Buildings / Multi-site (Energy Cost management) for Sub feeder in Billing Healthcare (Energy Cost management) for Main incomer in Billing Industry (Energy Cost management) for Sub feeder in Billing Buildings / Multi-site (Energy Cost management) for Main incomer in Cost allocation Datacenter (Energy Cost management) for Sub feeder in Cost allocation Industry (Energy Cost management) for Main incomer in Cost allocation Buildings / Small building (Energy Network management) Sub feeder in Industry (Energy Network management) Sub feeder in Buildings / Small building (Energy Cost management) for Sub feeder in Billing Datacenter (Energy Cost management) for Main incomer in Billing Healthcare (Energy Cost management) for Sub feeder in Billing Buildings / Small building (Energy Cost management) for Main incomer in Cost allocation Buildings / Medium building (Energy Cost management) for Sub feeder in Cost allocation Healthcare (Energy Cost management) for Main incomer in Cost allocation Industry (Energy Cost management) for Sub feeder in Cost allocation Buildings / Medium building (Energy Network management) Main incomer in Buildings / Multi-site (Energy Network management) Sub feeder in Buildings / Medium building (Energy Cost management) for Main incomer in Billing Buildings / Large building (Energy Cost management) for Sub feeder in Billing Industry (Energy Cost management) for Main incomer in Billing Buildings / Small building (Energy Cost management) for Sub feeder in Cost allocation Buildings / Large building (Energy Cost management) for Main incomer in Cost allocation Buildings / Multi-site (Energy Cost management) for Sub feeder in Cost allocation

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

Complementary

Power quality analysis	Up to the 31st harmonic
Device application	Power monitoring Multi-tariff
Type of measurement	Energy Active and reactive power Voltage Current Frequency Power factor
[Us] rated supply voltage	100...415 V AC (45...65 Hz) 125...250 V DC
Network frequency	60 Hz 50 Hz
[In] rated current	5 A 1 A
Poles description	3P + N 3P 1P + N
Power consumption in VA	10 VA at 415 V
Display type	Backlit LCD
Display resolution	128 x 128 pixels
Sampling rate	64 samples/cycle
Measurement current	10...9000 mA
Analogue input type	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
Measurement voltage	35...690 V AC 45...65 Hz between phases 20...400 V AC 45...65 Hz between phase and neutral
Frequency measurement range	45...65 Hz
Number of inputs	2 digital
Measurement accuracy	+/- 0.5 % active energy +/- 2 % reactive energy +/- 0.5 % active power +/- 0.5 % apparent power +/- 0.05 % frequency +/- 0.005 % power factor +/- 0.5 % current +/- 0.5 % voltage
Accuracy class	Class 0.5S (active energy according to IEC 62053-22)
Number of outputs	2 digital
Information displayed	Tariff 4
Communication port protocol	Modbus RTU and ASCII 2 wires, : 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V JBUS
Communication port support	RS485
Data recording	Data logs Maintenance logs Min/Max of instantaneous values Event logs Time stamping Alarm logs
Memory capacity	256 kB
Connections - terminals	Voltage circuit: 4 screw terminal block Control circuit: 2 screw terminal block Input/Output circuit: 6 screw terminal block Relay output: 4 screw terminal block Ethernet network: RJ45 connector Current transformer: 1 RJ45 connector
Mounting mode	Flush-mounted
Mounting support	Framework

Standards	IEC 62053-24 UL 61010-1 EN 50470-1 IEC 61557-12 IEC 62053-22 EN 50470-3 IEC 60529
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Product weight	430 g

Environment

Electromagnetic compatibility	<ul style="list-style-type: none"> • conducted and radiated emissions class class B, conforming to EN 55022 • limits for harmonic current emissions class class A, conforming to IEC 61000-3-2 • electrostatic discharge class level 4, conforming to IEC 61000-4-2 • conducted RF disturbances class level 3, conforming to IEC 61000-4-6 • magnetic field at power frequency class level 4, conforming to IEC 61000-4-8
IP degree of protection	IP52 (front) conforming to IEC 60529 IP30 (body) conforming to IEC 60529
Relative humidity	5...95 % 50 °C
Pollution degree	2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1321 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

METSEPM5310R