

# Product data sheet

Specifications



power meter PowerLogic PM5331,  
modbus, up to 31st Harmonic,  
256KB 2DI/2DO 35 alarms, MID

METSEPM5331

## Main

Range	PowerLogic
Product Name	PowerLogic PM5000
Device Short Name	PM5331
Product Or Component Type	Power meter

## Complementary

Power Quality Analysis	up to the 31st harmonic
Device Application	Power monitoring Multi-tariff
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...400 V AC 45...65 Hz between phase and neutral
Frequency Measurement Range	45...65 Hz
Number Of Inputs	2 digital

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

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 relay 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	Alarm logs Min/max of instantaneous values Data logs Time stamping Maintenance logs Event 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 62053-22:2020 IEC 61557-12:2015 UL 61010-1 IEC 62053-24 EN 50470-1 IEC 60529 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 MID conforming to EN 50470-1 MID conforming to EN 50470-3
Width	96 mm
Depth	72 mm
Height	96 mm
Net Weight	430 g

## Environment

Electromagnetic Compatibility	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 level 3 conforming to IEC 61000-4-11 Limits for harmonic current emissions class A conforming to IEC 61000-3-2 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 Voltage dips and interruptions immunity test - test level: 8 kV level 4 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	11.4 cm
Package 1 Width	12.5 cm
Package 1 Length	12.7 cm
Package 1 Weight	550.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.92 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency   RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
California Proposition 65	WARNING: Cancer and Reproductive Harm - <a href="#">www.P65Warnings.ca.gov</a>