

# Product datasheet

Specifications



power meter PowerLogic PM5320,  
ethernet, up to 31st Harmonic,  
256KB 2DI/2DO 35 alarms

METSEPM5320

## Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5320
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 + N 3P
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
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 TCP/IP at 10/100 Mbit/s, insulation 2500 V BACnet IP
Communication port support	ETHERNET
Data recording	Maintenance logs Alarm logs Min/max of instantaneous values Event logs Time stamping Data 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	IEC 62053-22 EN 50470-1 IEC 60529 IEC 61557-12 UL 61010-1 EN 50470-3 IEC 62053-24
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	Limitation of voltage changes, voltage fluctuations and flicker in low-voltage class A 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 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 Voltage dips and interruptions immunity test 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 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3
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	11.0 cm
Package 1 Width	12.6 cm
Package 1 Length	12.6 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	7.096 kg
Unit Type of Package 3	P12
Number of Units in Package 3	288
Package 3 Height	105.0 cm
Package 3 Width	80.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	206.4 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Recommended replacement(s)