



Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5563
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 63rd harmonic
Device application	WAGES metering Power monitoring Gateway Multi-tariff
Type of measurement	Active and reactive power Energy Power factor Frequency Voltage Current
Supply voltage	100...480 V AC (45...65 Hz) 125...250 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 5 A
Type of network	1P + N 3P 3P + N
Power consumption in VA	10 VA at 480 V
Display type	Remote LCD display
Display resolution	128 x 128 pixels
Sampling rate	128 samples/cycle
Measurement current	5 mA...10 A
Analogue input type	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
Measurement voltage	20...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	4 digital
Measurement accuracy	+/- 0.15 °C current +/- 0.05 % power factor +/- 0.1 % voltage +/- 0.2 % active power +/- 1 % reactive energy +/- 0.2 % active energy +/- 0.05 % frequency +/- 0.5 % apparent power
Accuracy class	Class 0.2S (active energy according to IEC 62053-22)
Number of outputs	2 digital

Information displayed	Tariff 8
Communication port protocol	BACnet IP Ethernet Modbus TCP/IP daisy chain Modbus TCP/IP : 10/100 Mbit/s, insulation: 2500 V JBUS Modbus RTU and ASCII 2 wires, : 9.6, 19.2 and 38.4 kbauds, even/odd or none, insulation: 2500 V
Communication port support	Ethernet RS485
Communication gateway	Ethernet/Serial
Data recording	Data logs Event logs Min/Max of instantaneous values Time stamping Alarm logs Maintenance logs
Memory capacity	1.1 MB
Web services	Alarm notification by e-mail Diagnostic via predefined web pages Web server Real time viewing of data
Ethernet service	SNTP client SNMP-Traps
Mounting mode	Clip-on
Mounting support	DIN rail
Standards	IEC 60529 IEC 61557-12 IEC 62053-22 EN 50470-1 EN 50470-3 UL 61010-1 IEC 62053-24
Product certifications	BTL CULus conforming to UL 61010-1 CE conforming to IEC 61010-1
Width	96 mm
Depth	72 mm
Height	96 mm
Product weight	450 g

Environment

Electromagnetic compatibility	• voltage dips and interruptions immunity test, conforming to IEC 61000-4-11 • surge immunity test class level 4, conforming to IEC 61000-4-5 • electrical fast transient/burst immunity test class level 4, conforming to IEC 61000-4-4 • radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3 • electrostatic discharge class level 4 (8 kV), conforming to IEC 61000-4-2 • limitation of voltage changes, voltage fluctuations and flicker in low-voltage, conforming to IEC 61000-3-3 • conducted and radiated emissions class class B, conforming to EN 55022 • magnetic field at power frequency class level 4, conforming to IEC 61000-4-8 • conducted RF disturbances class level 3, conforming to IEC 61000-4-6 • limits for harmonic current emissions class class A, conforming to IEC 61000-3-2
IP degree of protection	IP30 (body) conforming to IEC 60529 IP52 (front) 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	3000 m