

Main

Range of product	PowerLogic PM800
Device short name	PM870
User machine interface type	Backlit white LCD display
Language	English French Spanish

Complementary

Type of measurement	Power
Instantaneous rms values	Active power total and per phase Apparent power total and per phase Current Frequency Power factor total and per phase Reactive power total and per phase Voltage
Energy values	Active Apparent Reactive
Demand values	Active power present and maximum Apparent power present and maximum Current present and maximum Demand calculation mode block, sliding, input synchronisation mode Reactive power present and maximum Synchronisation for the measurement window
Other measurements	Hour counter
Power quality measurements	Harmonic distortion current and voltage Individual harmonics current and voltage Sag and swell detection Waveform capture configurable
Data recording	4 data logs Alarms Event logs Min/Max of instantaneous values Time stamping Trending/Forecasting
Communication port protocol	Modbus RTU RS485 2-wire
Current transformer ratio	5...32767 A
UMI indication	Active power min/max Apparent power min/max Current min/max Frequency min/max Harmonic distortion min/max Reactive power min/max Voltage min/max
Display resolution	6 lines
Measurement accuracy	0.1 % power factor 1...10 A 0.2 % power 0.325 % current 1...10 A 0.375 % voltage 50...277 V +/- 0.02 % frequency 45...67 Hz Class 0.5S active energy IEC 62053-22 Class 2 reactive energy IEC 62053-23

Number of inputs	1
Analogue input type	Current 5...32767 mA external CT 5 mA...10 A < 0,15 VA < 0,1 Ohm 500 A for 1 second per hour Current 5...32767 mA external CT 5 mA...10 A < 0,15 VA < 0,1 Ohm 50 A for 10 seconds per hour Current 5...32767 mA external CT 5 mA...10 A < 0,15 VA < 0,1 Ohm 15 A continuous Voltage < 3,2 V with external VT (direct) 5 MOhm 1.5 Un 350...450 Hz Voltage < 3,2 V with external VT (direct) 5 MOhm 1.5 Un 45...67 Hz Voltage 0...600 V phase to phase (direct) 5 MOhm 1.5 Un 45...67 Hz Voltage 0...600 V phase to phase (direct) 5 MOhm 1.5 Un 350...450 Hz Voltage 0...347 V phase to neutral (direct) 5 MOhm 1.5 Un 45...67 Hz Voltage 0...347 V phase to neutral (direct) 5 MOhm 1.5 Un 350...450 Hz
Logic input number	1 digital 24...125 V AC/DC
Number of outputs	1
Output type	Digital 6...220 V AC 0,1 A 25 °C 1350 V Digital 3...250 V DC 0,1 A 25 °C 1350 V
[Us] rated supply voltage	100...415 V AC +/- 10 % 15 VA 125...250 V DC +/- 20 % 10 W
Width	96 mm
Height	96 mm
Depth	90 mm
Product weight	0,6 kg

Environment

IP degree of protection	IP30 IEC 60529 meter body IP52 IEC 60529 front display
Immunity to microbreaks	45 ms 120 V AC
Environmental characteristic	Dielectric withstand EN 61010 Dielectric withstand UL 508
Electromagnetic compatibility	Conducted and radiated emissions A EN 55011 Conducted immunity III IEC 61000-4-6 Electrostatic discharge III IEC 61000-4-2 Flicker emissions IEC 61000-3-3 Harmonics emissions IEC 61000-3-2 Immunity to fast transients III IEC 61000-4-4 Immunity to impulse waves III IEC 61000-4-5 Immunity to magnetic fields III IEC 61000-4-8 Immunity to radiated fields III IEC 61000-4-3 Immunity to voltage dips III IEC 61000-4-11
Climatic withstand	Altitude III Altitude < 3000 m Humidity rating 5 to 95 % RH at 40 °C Operating temperature meter - 25...70 °C Operating temperature display - 10...50 °C Pollution degree 2 Storage temperature - 40...85 °C
RoHS EUR conformity date	0850
RoHS EUR status	Compliant