

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 network: RS485 interface: 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	Active energy: class 0.5S conforming to IEC 62053-22 Current: 0.325 % (1...10 A) Frequency: +/- 0.02 % (45...67 Hz) Power: 0.2 % Power factor: 0.1 % (1...10 A) Reactive energy: class 2 conforming to IEC 62053-23 Voltage: 0.375 % (50...277 V)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Analogue input type	Current 5...32767 mA external CT measurement range: 5 mA...10 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 500 A for 1 second per hour Current 5...32767 mA external CT measurement range: 5 mA...10 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 50 A for 10 seconds per hour Current 5...32767 mA external CT measurement range: 5 mA...10 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 15 A continuous Voltage < 3.2 V with external VT (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 350...450 Hz Voltage < 3.2 V with external VT (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz Voltage 0...600 V phase to phase (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz Voltage 0...600 V phase to phase (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 350...450 Hz Voltage 0...347 V phase to neutral (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz Voltage 0...347 V phase to neutral (direct) input impedance: 5 MOhm permitted overload: 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 continuous current: 0.1 A at 25 °C isolation of outputs: 1350 V Digital: 3...250 V DC continuous current: 0.1 A at 25 °C isolation of outputs: 1350 V
[Us] rated supply voltage	100...415 V AC tolerance: +/- 10 % power consumption: 15 VA 125...250 V DC tolerance: +/- 20 % power consumption: 10 W
Width	96 mm
Height	96 mm
Depth	90 mm
Product weight	0.6 kg

Environment

IP degree of protection	IP30 conforming to IEC 60529 meter body IP52 conforming to IEC 60529 front display
Immunity to microbreaks	45 ms at 120 V AC
Environmental characteristic	Dielectric withstand conforming to EN 61010 Dielectric withstand conforming to UL 508
Electromagnetic compatibility	Conducted and radiated emissions : A conforming to EN 55011 Conducted immunity : III conforming to IEC 61000-4-6 Electrostatic discharge : III conforming to IEC 61000-4-2 Flicker emissions conforming to IEC 61000-3-3 Harmonics emissions conforming to IEC 61000-3-2 Immunity to fast transients : III conforming to IEC 61000-4-4 Immunity to impulse waves : III conforming to IEC 61000-4-5 Immunity to magnetic fields : III conforming to IEC 61000-4-8 Immunity to radiated fields : III conforming to IEC 61000-4-3 Immunity to voltage dips : III conforming to 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