

Main

| | |
|-----------------------------|------------------------------|
| Range of product | PowerLogic PM800 |
| Device short name | PM850 |
| 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) Waveform capture |
| 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 |
| UML 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) |

| | |
|---------------------------|---|
| Analogue input type | <p>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</p> <p>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</p> <p>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</p> <p>Voltage < 3.2 V with external VT (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 350...450 Hz</p> <p>Voltage < 3.2 V with external VT (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz</p> <p>Voltage 0...600 V phase to phase (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz</p> <p>Voltage 0...600 V phase to phase (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 350...450 Hz</p> <p>Voltage 0...347 V phase to neutral (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 45...67 Hz</p> <p>Voltage 0...347 V phase to neutral (direct) input impedance: 5 MOhm permitted overload: 1.5 Un 350...450 Hz</p> |
| Logic input number | 1: digital 24...125 V AC/DC |
| Number of outputs | 1 |
| Output type | <p>Digital: 6...220 V AC continuous current: 0.1 A at 25 °C isolation of outputs: 1350 V</p> <p>Digital: 3...250 V DC continuous current: 0.1 A at 25 °C isolation of outputs: 1350 V</p> |
| [Us] rated supply voltage | <p>100...415 V AC tolerance: +/- 10 % power consumption: 15 VA</p> <p>125...250 V DC tolerance: +/- 20 % power consumption: 10 W</p> |
| Width | 96 mm |
| Height | 96 mm |
| Depth | 90 mm |
| Product weight | 0.6 kg |

Environment

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