## Product data sheet

Specifications



# power meter PM850 - with display - WFC - 800 kB logging

PM850MG

() Discontinued on: Dec 31, 2016

#### (!) Discontinued

#### Main

| Range Of Product          | PowerLogic PM800 |
|---------------------------|------------------|
| Device Short Name         | PM850            |
| Product Or Component Type | Power meter      |

#### Complementary

| Power Quality Analysis             | Up to the 63rd harmonic                  |
|------------------------------------|------------------------------------------|
| Type Of Measurement                | Current                                  |
|                                    | Voltage                                  |
|                                    | Frequency                                |
|                                    | Power factor total                       |
|                                    | Apparent power total                     |
|                                    | Active power total                       |
|                                    | Reactive power total                     |
|                                    | Apparent power per phase                 |
|                                    | Active power per phase                   |
|                                    | Reactive power per phase                 |
|                                    |                                          |
|                                    | Energy                                   |
|                                    | Power factor per phase                   |
| Supply Voltage                     | 125250 V DC                              |
|                                    | 115415 V AC 4567 Hz                      |
|                                    | 115415 V AC 350450 Hz                    |
| Network Frequency                  | 4567 Hz                                  |
|                                    | 350450 Hz                                |
|                                    |                                          |
| Maximum Power Consumption In<br>Va | 15 VA                                    |
| Display Type                       | Backlit LCD                              |
| Display Resolution                 | 6 lines                                  |
| Sampling Rate                      | 128 samples/cycle                        |
| Measurement Current                | 1A                                       |
|                                    | 5 A                                      |
| Input Type                         | Current 0.00510 A (impedance <= 0.1 Ohm) |
| Measurement Voltage                | 0600 V AC phase to phase                 |
|                                    | 0347 V AC phase to neutral               |
| Number Of Inputs                   | 1 digital 05 mA 24125 V AC/DC            |
| Measurement Accuracy               | Current 0.5 % 0.510 A                    |
| -                                  | Voltage 0.2 % 10227 V                    |
|                                    | Energy 0.2 %                             |
|                                    | Frequency 0.01 Hz                        |
|                                    | Power factor 0.002                       |
|                                    | Power 0.2 %                              |
|                                    | I UWCI U.2 /0                            |

| Accuracy Class                                                                                                                                                                                                                                                                                                                     | Class 2 reactive energy conforming to IEC 62053-23<br>Class 0.5S active energy conforming to IEC 62053-22<br>Class 0.2 active energy conforming to ANSI C12.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number Of Outputs                                                                                                                                                                                                                                                                                                                  | 1 digital (static)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Communication Port Protocol                                                                                                                                                                                                                                                                                                        | Modbus 38.4 kbauds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Communication Port Support                                                                                                                                                                                                                                                                                                         | R\$485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Data Recording                                                                                                                                                                                                                                                                                                                     | GPS synchronisation<br>Time stamping<br>Min/max of instantaneous values<br>Alarms<br>Event logs<br>Trending/forecasting<br>4 data logs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Memory Capacity                                                                                                                                                                                                                                                                                                                    | 800 kB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Environment                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electromagnetic Compatibility                                                                                                                                                                                                                                                                                                      | Immunity to impulse waves: , conforming to IEC 61000-4-12<br>Limits for harmonic current emissions: , conforming to IEC 61000-3-2<br>Conducted and radiated emissions: , conforming to EN 55011 class A<br>Electrostatic discharge immunity test: , class III, conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields: , class III, conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test: , class III, conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test: , class III, conforming to IEC 61000-4-4<br>1.2/50 µs shock waves immunity test: , class III, conforming to IEC 61000-4-5<br>Conducted RF disturbances: , class III, conforming to IEC 61000-4-6<br>Immunity to impulse waves: , class III, conforming to IEC 61000-4-8<br>Immunity to microbreaks and voltage drops: , class III, conforming to IEC 61000-4-11<br>Limitation of voltage changes, voltage fluctuations and flicker in low-voltage: ,<br>conforming to IEC 61000-3-3 |
|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting Mode                                                                                                                                                                                                                                                                                                                      | Flush-mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting Mode<br><br>Mounting Support                                                                                                                                                                                                                                                                                              | Flush-mounted Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting Support                                                                                                                                                                                                                                                                                                                   | Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mounting Support<br>Type Of Installation                                                                                                                                                                                                                                                                                           | Panel<br>Indoor installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Mounting Support<br>Type Of Installation<br>Overvoltage Category                                                                                                                                                                                                                                                                   | Panel Indoor installation III IP30 back: conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection                                                                                                                                                                                                                                                 | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection Relative Humidity                                                                                                                                                                                                                               | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection Relative Humidity Pollution Degree Ambient Air Temperature For                                                                                                                                                                                  | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection Relative Humidity Pollution Degree Ambient Air Temperature For Operation Ambient Air Temperature For                                                                                                                                            | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mounting Support         Type Of Installation         Overvoltage Category         Ip Degree Of Protection         Relative Humidity         Pollution Degree         Ambient Air Temperature For Operation         Ambient Air Temperature For Storage                                                                            | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C         -4085 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection Relative Humidity Pollution Degree Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude                                                                                                                 | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C         -4085 °C         03000 m         IEC 61010-1         CSA C22.2 No 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting Support Type Of Installation Overvoltage Category Ip Degree Of Protection Relative Humidity Pollution Degree Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude Standards                                                                                                       | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C         -4085 °C         03000 m         IEC 61010-1<br>CSA C22.2 No 14<br>UL 508         CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting Support         Type Of Installation         Overvoltage Category         Ip Degree Of Protection         Relative Humidity         Pollution Degree         Ambient Air Temperature For         Operation         Ambient Air Temperature For         Storage         Operating Altitude         Standards               | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C         -4085 °C         03000 m         IEC 61010-1<br>CSA C22.2 No 14<br>UL 508         CE<br>cULus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting Support         Type Of Installation         Overvoltage Category         Ip Degree Of Protection         Relative Humidity         Pollution Degree         Ambient Air Temperature For         Operation         Ambient Air Temperature For         Storage         Operating Altitude         Standards         Width | Panel         Indoor installation         III         IP30 back: conforming to IEC 60529         IP52 front face: conforming to IEC 60529         90 % at 40 °C         2         -2570 °C         -4085 °C         03000 m         IEC 61010-1<br>CSA C22.2 No 14<br>UL 508         CE<br>cULus         96 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### **Contractual warranty**

Warranty

18 months

#### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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Guide to assess a product's sustainability >



RoHS/REACh

#### **Certifications & Standards**

Eu Rohs Directive

Compliant EU RoHS Declaration