Product datasheet

Specifications

Green Premium™

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

PM850MG

Discontinued on: 6 May 2021

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	125...250 V DC 115...415 V AC 45...67 Hz 115...415 V AC 350...450 Hz
Network Frequency	45...67 Hz 350...450 Hz
Maximum Power Consumption In Va	15 VA
Display Type	Backlit LCD
Display Resolution	6 lines
Sampling Rate	128 samples/cycle
Measurement Current	1 A 5 A
Input Type	Current 0.005...10 A (impedance <= 0.1 Ohm)
Measurement Voltage	0…600 V AC phase to phase 0…347 V AC phase to neutral
Number Of Inputs	1 digital 0...5 mA 24...125 V AC/DC
Measurement Accuracy	Current 0.5 % 0.5...10 A Voltage 0.2 % 10...227 V Energy 0.2 % Frequency 0.01 Hz Power factor 0.002 Power 0.2 %

Disclaimer: 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

Accuracy Class	Class 2 reactive energy conforming to IEC 62053-23 Class 0.5S active energy conforming to IEC 62053-22 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	RS485
Data Recording	GPS synchronisation Time stamping Min/max of instantaneous values Alarms Event logs Trending/forecasting 4 data logs
Memory Capacity	800 kB

Environment

Electromagnetic Compatibility	Immunity to impulse waves: , conforming to IEC 61000-4-12 Limits for harmonic current emissions: , conforming to IEC 61000-3-2 Conducted and radiated emissions: , conforming to EN 55011 class A Electrostatic discharge immunity test: , class III, conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields: , class III, conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test: , class III, conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test: , class III, conforming to IEC 61000-4-5 Conducted RF disturbances: , class III, conforming to IEC 61000-4-6 Immunity to impulse waves: , class III, conforming to IEC 61000-4-8 Immunity to microbreaks and voltage drops: , class III, conforming to IEC 61000-4-11 Limitation of voltage changes, voltage fluctuations and flicker in low-voltage: , conforming to IEC 61000-3-3
Mounting Mode	Flush-mounted
Mounting Support	Panel
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP30 back: conforming to IEC 60529 IP52 front face: conforming to IEC 60529
Relative Humidity	90 % at 40 °C
Pollution Degree	2
Ambient Air Temperature For Operation	-25…70 °C
Ambient Air Temperature For Storage	-40…85 °C
Operating Altitude	0...3000 m
Standards	IEC 61010-1 CSA C22.2 No 14 UL 508
Product Certifications	CE cULus
Width	96 mm
Depth	70 mm meter:
Height	96 mm
Net Weight	0.6 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Certifications & Standards

Eu Rohs Directive	Compliant EU RoHS Declaration