

Product data sheet

Specifications



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

PM850MG

! Discontinued on: 12 July 2021

PM850MG has not been replaced. Please contact your customer care center for more information.

! 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 <= 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 %

Accuracy class	Class 2 reactive energy IEC 62053-23 Class 0.5S active energy IEC 62053-22 Class 0.2 active energy 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 IEC 61000-4-12 Limits for harmonic current emissions IEC 61000-3-2 Conducted and radiated emissions EN 55011 class A Electrostatic discharge immunity testclass III IEC 61000-4-2 Susceptibility to electromagnetic fieldsclass III IEC 61000-4-3 Electrical fast transient/burst immunity testclass III IEC 61000-4-4 1.2/50 µs shock waves immunity testclass III IEC 61000-4-5 Conducted RF disturbancesclass III IEC 61000-4-6 Immunity to impulse wavesclass III IEC 61000-4-8 Immunity to microbreaks and voltage dropsclass III IEC 61000-4-11 Limitation of voltage changes, voltage fluctuations and flicker in low-voltage IEC 61000-3-3
Mounting Mode	Flush-mounted
Mounting support	Panel
Type of Installation	Indoor installation
Overvoltage category	III
IP degree of protection	Back IP30 IEC 60529 Front face IP52 IEC 60529
Relative humidity	90 % 104 °F (40 °C)
Pollution degree	2
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Standards	IEC 61010-1 CSA C22.2 No 14 UL 508
Product Certifications	CE cULus
Width	3.78 in (96 mm)
Depth	Meter 2.76 in (70 mm)
Height	3.78 in (96 mm)
Net Weight	1.32 lb(US) (0.6 kg)

Ordering and shipping details

Category	09786-SE ENTRY POWER METER
Discount Schedule	PL1
GTIN	3303432005726
Nbr. of units in pkg.	1
Package weight(Lbs)	2.2 lb(US) (1.00 kg)

Returnability	Yes
Country of origin	MX

Packing Units

Package 1 Height	5.16 in (13.100 cm)
Package 1 width	4.84 in (12.300 cm)
Package 1 Length	10.83 in (27.500 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration

Contractual warranty

Warranty	18 months
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