

# Product data sheet

Specifications



## power meter PM820 - with display - 80 kB logging

PM820MG

! Discontinued on: 12 July 2021

! Discontinued

### Main

Range of Product	PowerLogic PM800
Device short name	PM820
Product or Component Type	Power meter

### Complementary

Power quality analysis	Up to the 31st 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	350...450 Hz 45...67 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 $\leq$ 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

<b>Accuracy class</b>	Class 2 reactive energy IEC 62053-23 Class 0.5S active energy IEC 62053-22 Class 0.2 active energy ANSI C12.20
<b>Number of Outputs</b>	1 digital (static)
<b>Communication port protocol</b>	Modbus 38.4 kbauds
<b>Communication port support</b>	RS485
<b>Data recording</b>	Basic with 2 data logs Event logs Time stamping Min/max of instantaneous values GPS synchronisation Alarms
<b>Memory capacity</b>	80 kB

## Environment

<b>Electromagnetic compatibility</b>	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
<b>Mounting Mode</b>	Flush-mounted
<b>Mounting support</b>	Panel
<b>Type of Installation</b>	Indoor installation
<b>Overvoltage category</b>	III
<b>IP degree of protection</b>	Back IP30 IEC 60529 Front face IP52 IEC 60529
<b>Relative humidity</b>	90 % 104 °F (40 °C)
<b>Pollution degree</b>	2
<b>Ambient Air Temperature for Operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating altitude</b>	0...9842.52 ft (0...3000 m)
<b>Standards</b>	CSA C22.2 No 14 IEC 61010-1 UL 508
<b>Product Certifications</b>	CE cULus
<b>Width</b>	3.78 in (96 mm)
<b>Depth</b>	Meter 2.76 in (70 mm)
<b>Height</b>	3.78 in (96 mm)
<b>Net Weight</b>	1.32 lb(US) (0.6 kg)

## Ordering and shipping details

<b>Category</b>	09786-SE ENTRY POWER METER
<b>Discount Schedule</b>	PL1
<b>GTIN</b>	00785901703464
<b>Returnability</b>	Yes
<b>Country of origin</b>	MX

## Offer Sustainability

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Sustainable offer status Green Premium product

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EU RoHS Directive Compliant  
[EU RoHS Declaration](#)

## Contractual warranty

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Warranty 18 months

## Recommended replacement(s)

PM820MG is replaced by:

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PowerLogic PM8000 - PM8240 Panel mount meter - intermediate metering  
METSEPM8240

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