Product data sheet
Characteristics

PM810MG
power meter PM810 - with display

Commercial status
End of Commercialisation : DEC 31, 2016

⚠ End of Commercialisation

Main

Range of product	PowerLogic PM800
Device short name	PM810
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
[Us] rated 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	5 A 1 A
Analogue 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 %
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	Min/Max of instantaneous values Time stamping Without memory Alarms GPS synchronisation

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 B 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 6
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	UL 508 CSA C22.2 No 14 IEC 61010-1
Product certifications	cULus[RETURN]CE
Width	96 Mm
Depth	Meter : 70 mm
Height	96 Mm
Net weight	0.6 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Offer Sustainability

Sustainable packaging	No
EU RoHS Directive	Compliant
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

PM810MG may be replaced by any of the following products:



METSEPM8240

Power quality meter, PowerLogic PM8000, Standard, integrated display, 512 MB, 256 s/c

Qty 1

Substitution date: |