

Product datasheet

Specifications



power meter PM710 - basic readings, THD + min/max + RS485

PM710MG

Discontinued on: 01 November 2020

Discontinued

Main

Range of product	PowerLogic PM700
Device short name	PM710
Product or component type	Power meter

Complementary

Power quality analysis	Total harmonic distortion
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
Supply voltage	125...250 V DC 115...415 V AC 45...65 Hz
Network frequency	45...65 Hz
Maximum power consumption in VA	5 VA
Display type	Backlit LCD
Display resolution	6 lines
Sampling rate	32 samples/cycle
Measurement current	5 A 1 A
Input type	Current 0.005...6 A (impedance <= 0.1 Ohm)
Measurement voltage	10...480 V AC 45...65 Hz phase to phase 10...277 V AC 45...65 Hz phase to neutral
Measurement accuracy	Power 1 % Current 0.5 % 1...6 A Voltage 0.5 % 50...227 V Frequency 0.02 Hz 45...65 Hz Power factor 0.0034 1A to 6A and from -0.5 to +0.5
Accuracy class	Class 2 reactive energy conforming to IEC 62053-23 Class 1 active energy conforming to IEC 62053-21
Communication port protocol	Modbus 19.2 kbauds

Communication port support	RS485
Data recording	Min/max of instantaneous values
Environment	
Electromagnetic compatibility	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 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	95 % at 50 °C
Pollution degree	2
Ambient air temperature for operation	-5...50 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...3000 m
Standards	IEC 61010-1 UL 508 CSA C22.2 No 14
Product certifications	CE cULus
Width	96 mm
Depth	69 mm
Height	96 mm
Product weight	0.37 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration
Contractual warranty	
Warranty	18 months

Recommended replacement(s)

PM710MG is replaced by:

1x



power meter PowerLogic PM5110, modbus, up to 15th Harmonic, 1DO 33 alarms
METSEPM5110