

PM700PMG

power meter PM700 - basic readings, THD +
min/max + 2 pulse output



Main

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

Complementary

Power quality analysis	Total harmonic distortion
Type of measurement	Voltage Current Frequency Energy Power factor (total) Apparent power (total) Apparent power (per phase) Active power (total) Active power (per phase) Reactive power (total) Reactive power (per phase)
[Us] rated supply voltage	125...250 V DC 115...415 V AC (45...65 Hz)
Network frequency	45...65 Hz
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
Analogue 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	± 1 % power ± 0.5 % current (1...6 A) ± 0.5 % voltage (50...227 V) ± 0.02 Hz frequency (45...65 Hz) ± 0.0034 power factor (1A to 6A and from -0.5 to +0.5)
Accuracy class	Class 2 (reactive energy according to IEC 62053-23) Class 1 (active energy according to IEC 62053-21)
Number of outputs	2 pulse
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 Susceptibility to electromagnetic fields class class III, conforming to IEC 61000-4-3 Conducted RF disturbances class class III, conforming to IEC 61000-4-6 Electrostatic discharge immunity test class class III, conforming to IEC 61000-4-2 Electrical fast transient/burst immunity test class class III, conforming to IEC 61000-4-4
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1.2/50 µs shock waves immunity test class class III, conforming to IEC 61000-4-5
 Immunity to impulse waves class class III, conforming to IEC 61000-4-8
 Immunity to microbreaks and voltage drops class 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 % 50 °C
Pollution degree	2
Ambient air temperature for operation	-5...60 °C (meter) -10...55 °C (display)
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
RoHS	Compliant - since 0951 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available