

Product data sheet

Characteristics

PM750MG

power meter PM750 - basic readings, THD + min/max + RS485, 2 digital I



Main

Range of product	PowerLogic PM700
Device short name	PM750
User machine interface type	Backlit LCD display

Complementary

Type of measurement	Power
Instantaneous rms values	Active power total and per phase (signed) Apparent power total and per phase (signed) Current phases and neutral Frequency Power factor total (signed) Reactive power total and per phase (signed) Voltage phase to phase Voltage phase to neutral
Energy values	Active signed Apparent signed Reactive signed
Demand values	Active power present and maximum Apparent power present and maximum Current present and maximum Reactive power present and maximum Setting of calculation mode block, sliding, input synchronisation mode
Other measurements	Hour counter
Power quality measurements	Harmonic distortion current and voltage
Data recording	Min/Max of instantaneous values
Communication port protocol	Modbus RTU RS485 2-wire
Secondary current	1 A 5 A
Current transformer ratio	5...32767 A
UMI indication	Active power min/max Apparent power min/max Current min/max Frequency min/max Harmonic distortion min/max Reactive power min/max Voltage min/max
Display resolution	6 lines
Measurement accuracy	0.5 % current 1...6 A 0.5 % voltage 50...277 V 0.5 % power factor 1...6 A 1 % power +/- 0.02 % frequency 45...65 Hz Class 0.5S active energy IEC 62053-22 Class 2 reactive energy IEC 62053-23
Number of inputs	2

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Analogue input type	Current 5...32767 mA external CT 5 mA...6 A < 0,15 VA < 0,1 Ohm 120 A for 1 second per hour Current 5...32767 mA external CT 5 mA...6 A < 0,15 VA < 0,1 Ohm 50 A for 10 seconds per hour Current 5...32767 A external CT 5 mA...6 A < 0,15 VA < 0,1 Ohm 15 A continuous Voltage 10...277 V phase to neutral 1 MOhm 1.2 Un 45...65 Hz Voltage 10...480 V phase to phase 2 Ohm 1.2 Un 45...65 Hz Voltage < 1,6 V with external VT 1.2 Un 45...65 Hz
Logic input number	2 digital 12...36 V DC 12000 Ohm 25 Hz 2500 V
Number of outputs	1
Output type	Digital or pulse 8...36 V DC 0,1 A 25 °C 0.56 mA/°C 2.41 kV 28 Ohm
[Us] rated supply voltage	100...415 V AC +/- 10 % 5 VA 125...250 V DC +/- 20 % 3 W
Width	96 mm
Height	96 mm
Depth	69 mm
Product weight	0,37 kg

Environment

IP degree of protection	IP30 IEC 60529 meter body IP52 IEC 60529 front display
Immunity to microbreaks	100 ms 120 V AC
Environmental characteristic	Dielectric withstand EN 61010 Dielectric withstand UL 508
Electromagnetic compatibility	Conducted and radiated emissions B EN 55011 Conducted immunity III IEC 61000-4-6 Electrostatic discharge III IEC 61000-4-2 Flicker emissions IEC 61000-3-3 Harmonics emissions IEC 61000-3-2 Immunity to fast transients III IEC 61000-4-4 Immunity to impulse waves III IEC 61000-4-5 Immunity to magnetic fields III IEC 61000-4-8 Immunity to radiated fields III IEC 61000-4-3 Immunity to voltage dips III IEC 61000-4-11
Climatic withstand	Altitude < 3000 m Humidity rating 5 to 95 % RH at 50 °C Operating temperature meter - 5...60 °C Operating temperature display - 10...50 °C Pollution degree 2 Storage temperature - 40...85 °C
RoHS EUR conformity date	0850
RoHS EUR status	Compliant