

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 network: RS485 interface: 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	Active energy: class 0.5S conforming to IEC 62053-22 Current: 0.5 % (1...6 A) Frequency: +/- 0.02 % (45...65 Hz) Power: 1 % Power factor: 0.5 % (1...6 A) Reactive energy: class 2 conforming to IEC 62053-23 Voltage: 0.5 % (50...277 V)
Number of inputs	2

Analogue input type	Current 5...32767 mA external CT measurement range: 5 mA...6 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 120 A for 1 second per hour Current 5...32767 mA external CT measurement range: 5 mA...6 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 50 A for 10 seconds per hour Current 5...32767 A external CT measurement range: 5 mA...6 A consumption: < 0.15 VA input impedance: < 0.1 Ohm permitted overload: 15 A continuous Voltage 10...277 V phase to neutral input impedance: 1 MOhm permitted overload: 1.2 Un 45...65 Hz Voltage 10...480 V phase to phase input impedance: 2 Ohm permitted overload: 1.2 Un 45...65 Hz Voltage < 1.6 V with external VT permitted overload: 1.2 Un 45...65 Hz
Logic input number	2: digital 12...36 V DC 12000 Ohm 25 Hz insulation: 2500 V
Number of outputs	1
Output type	Digital or pulse: 8...36 V DC continuous current: 0.1 A at 25 °C temperature drift: 0.56 mA/°C isolation of outputs: 2.41 kV 28 Ohm
[Us] rated supply voltage	100...415 V AC tolerance: +/- 10 % power consumption: 5 VA 125...250 V DC tolerance: +/- 20 % power consumption: 3 W
Width	96 mm
Height	96 mm
Depth	69 mm
Product weight	0.37 kg

Environment

IP degree of protection	IP30 conforming to IEC 60529 meter body IP52 conforming to IEC 60529 front display
Immunity to microbreaks	100 ms at 120 V AC
Environmental characteristic	Dielectric withstand conforming to EN 61010 Dielectric withstand conforming to UL 508
Electromagnetic compatibility	Conducted and radiated emissions : B conforming to EN 55011 Conducted immunity : III conforming to IEC 61000-4-6 Electrostatic discharge : III conforming to IEC 61000-4-2 Flicker emissions conforming to IEC 61000-3-3 Harmonics emissions conforming to IEC 61000-3-2 Immunity to fast transients : III conforming to IEC 61000-4-4 Immunity to impulse waves : III conforming to IEC 61000-4-5 Immunity to magnetic fields : III conforming to IEC 61000-4-8 Immunity to radiated fields : III conforming to IEC 61000-4-3 Immunity to voltage dips : III conforming to 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