Product datasheet
Characteristics

METSEPM1200
PM1200 power meter with energy and demand - with communication

Main

Range of product	PowerLogic PM1000
Device short name	PM1200
Product or component type	Power meter

Complementary

Power quality analysis	Up to the 9th harmonic
Type of measurement	Voltage Current Frequency Power factor Active and reactive power Active and reactive energy
[Us] rated supply voltage	44...277 V DC 44...277 V AC (50/60 Hz)
Network frequency	50/60 Hz
Power consumption in VA	< 3 VA at 240 V AC
Display type	LED
Display resolution	3 lines with 4 digits
Sampling rate	20 samples/cycle
Measurement current	50 mA...6 A
Analogue input type	Current 0...5 A (impedance <= 0.1 Ohm) Current 0...1 A (impedance <= 0.1 Ohm)
Measurement voltage	80...480 V AC 50/60 Hz phase to phase 0 V...999 kV AC 50/60 Hz with external VT
Measurement accuracy	± 1 % power ± 1 % current ± 1 % voltage ± 1 % energy ± 0.1 % frequency ± 1 % power factor ± 1 % apparent power
Accuracy class	Class 2 (reactive energy according to IEC 62053-23) Class 1 (active energy according to IEC 62053-21)
Communication port protocol	Modbus: 19.2 kbauds,
Communication port support	RS485

Environment

Electromagnetic compatibility	Electrostatic discharge immunity test, conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields, conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test, conforming to IEC 61000-4-5 Conducted RF disturbances, conforming to IEC 61000-4-6 Immunity to impulse waves, conforming to IEC 61000-4-12 Immunity to microbreaks and voltage drops, conforming to IEC 61000-4-11 Conducted and radiated emissions class class A, conforming to CISPR 11
Mounting mode	Flush-mounted
Mounting support	Panel
Type of installation	Indoor installation

Overvoltage category	III
IP degree of protection	IP51 (front face) conforming to IEC 60529 IP40 (back) conforming to IEC 60529
Relative humidity	5...95 %
Ambient air temperature for operation	-10...60 °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	0...2000 m
Standards	IEC 62053-21 IEC 62052-11
Width	96 mm
Depth	80 mm (embedded)
Height	96 mm
Product weight	0.4 kg