



## Main

Range	EasyLogic
Product name	EasyLogic PM2200
Device short name	PM2220
Product or component type	Power meter

## Complementary

Device application	Power monitoring Sub billing
Power quality analysis	Total harmonic distortion Up to the 15th harmonic
Type of measurement	Active and reactive power (min/max, total) Total voltage harmonic distortion THD (U) (per phase) Active and reactive energy (total) Frequency (min/max, avg) Power factor (min/max, avg) Apparent power (min/max, total) Current (min/max, avg) Voltage (min/max, avg) Total current harmonic distortion THD (I) (per phase) Apparent energy (total)
Metering type	Active power P, P1, P2, P3 Apparent power S, S1, S2, S3 Demand current I1, I2, I3 Peak demand currents Reactive power Q, Q1, Q2, Q3 Voltage U21, U32, U13, V1, V2, V3 Unbalance current Active, reactive, apparent energy (signed, four quadrant) Calculated neutral current Demand power P, Q, S Peak demand power PM, QM, SM
Accuracy class	Class 1 (active energy according to IEC 62053-21) Class 1 (reactive energy according to IEC 62053-24) Class 5 (harmonic distortion (I THD & U THD))

Measurement accuracy	+/- 0.05 % frequency +/- 0.5 % active energy +/- 0.5 % current +/- 0.5 % apparent power +/- 1 % reactive energy +/- 0.5 % voltage +/- 0.01 power factor +/- 0.5 % active power
Measurement current	5 mA...6 A
Measurement voltage	<= 999 kV AC 50/60 Hz with external VT 35...480 V AC 50/60 Hz between phases 20...277 V AC 50/60 Hz between phase and neutral
Frequency measurement range	45...65 Hz
[Us] rated supply voltage	44...277 V AC +/- 10 % (45...65 Hz) 44...277 V DC +/- 10 %
Network frequency	50 Hz 60 Hz
[In] rated current	1 A 5 A
Power consumption in VA	<= 8 VA at 240 V AC AC
Power consumption in W	< 2 W power lines (DC) 3.3 W power lines (AC)
Analogue input type	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
Tamperproof of settings	Protected by access code
Display type	Backlit LCD
Display colour	Monochrome
Display resolution	128 x 128 pixels
Refresh time	Configurable from 1 to 60 min
Information displayed	Voltage Active power Demand current past value Current Harmonic distortion Power factor Reactive power Frequency Energy consumption Unbalanced in % Harmonic amplitude Demand current present value Demand power past value Demand power present value Apparent power
Control type	4 x button
Local signalling	Red LED : output signal, 1...9999000 pulse/ k_h (kWh, kVAh, kVARh) Green LED : module operation and integrated communication
Communication port protocol	Modbus RTU 2 wires, : 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps, even/odd or none, insulation: 2500 V
Communication port support	Screw terminal block : RS485
Data recording	Time stamping Min/Max for 8 parameters
Function available	Real time clock
Sampling rate	64 samples/cycle
Ethernet service	Enable/Disable serial ports
Communication service	Remote monitoring
Language	Chinese English French German Portuguese Russian Spanish
Product certifications	CE conforming to IEC 61010-1

EAC  
 C-Tick  
 RCM  
 CULus conforming to UL 61010-1  
 CULus conforming to CSA C22.2 No 61010-1

Mounting mode	Clip-on
Mounting position	Vertical
Mounting support	Framework
Provided equipment	Installation guide 1
Measurement category	Category II up to > 480...600 V Category III up to <= 480 V
Electrical insulation class	Class II Double insulation
Flame retardance	V-0 conforming to UL 94
Material	Polycarbonate
Cut-out dimensions	90 x 90 mm
Width	96 mm
Depth	76.09 mm total 61.64 mm embedded
Height	96 mm
Product weight	300 g

## Environment

Service life	> 7 yr
IP degree of protection	IP51 (front) conforming to IEC 60529 IP30 (body) conforming to IEC 60529
Relative humidity	5...95 % 50 °C
Pollution degree	2
Ambient air temperature for operation	-10...60 °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 2000 m
Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Conducted RF disturbances conforming to IEC 61000-4-6 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Surge immunity test conforming to IEC 61000-4-5 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Emission tests conforming to FCC part 15 class A Magnetic field at power frequency conforming to IEC 61000-4-8
Overvoltage category	III

## Offer Sustainability

Sustainable offer status	Not Green Premium product
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