



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	Up to the 15th harmonic Total harmonic distortion
Type of measurement	Active and reactive energy (total) Apparent energy (total) Power factor (min/max, avg) Total voltage harmonic distortion THD (U) (per phase) Total current harmonic distortion THD (I) (per phase) Frequency (min/max, avg) Voltage (min/max, avg) Current (min/max, avg) Active and reactive power (min/max, total) Apparent power (min/max, 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 5 (harmonic distortion (I THD & U THD) Class 1 (reactive energy according to IEC 62053-24) Class 1 (active energy according to IEC 62053-21)
Measurement accuracy	+/- 0.05 % frequency +/- 0.5 % current +/- 0.01 power factor +/- 0.5 % voltage +/- 0.5 % active power +/- 1 % reactive energy +/- 0.5 % active energy +/- 0.5 % apparent power
Measurement current	5 mA...6 A
Measurement voltage	<= 999 kV AC 50/60 Hz with external VT 20...277 V AC 50/60 Hz between phase and neutral 35...480 V AC 50/60 Hz between phases
Frequency measurement range	45...65 Hz
[Us] rated supply voltage	44...277 V DC +/- 10 % 44...277 V AC +/- 10 % (45...65 Hz)
Network frequency	50 Hz 60 Hz

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[In] rated current	1 A 5 A
Power consumption in VA	<= 8 VA at 240 V AC power lines (AC)
Power consumption in W	< 2 W power lines (DC) 3.3 W power lines (AC)
Input impedance	Voltage (impedance 5 MOhm) Current (impedance 0.3 mOhm)
Tamperproof of settings	Protected by access code
Display type	Backlit LCD
Display colour	Monochrome
Display resolution	128 x 128 pixels
Demand intervals	Configurable from 1 to 60 min
Information displayed	Harmonic amplitude Unbalanced in % Reactive power Apparent power Active power Power factor Harmonic distortion Energy consumption Frequency Current Voltage Demand power present value Demand power past value Demand current present value Demand current past value
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
Cyber security option	Enable/Disable serial ports
Communication service	Remote monitoring
Language	Chinese English French German Portuguese Russian Spanish
Product certifications	C-Tick EAC RCM CULus conforming to CSA C22.2 No 61010-1 CULus conforming to UL 61010-1 CE conforming to IEC 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	61.64 mm embedded 76.09 mm total

Height	96 mm
Product weight	300 g

Environment

Service life	> 7 yr
IP degree of protection	IP30 (body) conforming to IEC 60529 IP51 (front) 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	Emission tests conforming to FCC part 15 class A Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Magnetic field at power frequency conforming to IEC 61000-4-8 Conducted RF disturbances conforming to IEC 61000-4-6 Surge immunity test conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrostatic discharge conforming to IEC 61000-4-2
Overvoltage category	III