Product datasheet





EasyLogic PM2220 - Power & Energy meter - up to 15th H - LED - RS485 - class 1

METSEPM2220

Main

Range	EasyLogic
Product Name	EasyLogic PM2200
Device Short Name	PM2220
Product Or Component Type	Power meter

Device Application	Power monitoring Sub billing
	Sub Dilling
Power Quality Analysis	total harmonic distortion
	up to the 15th harmonic
Type Of Measurement	Apparent power min/max, total
	Active and reactive power min/max, total
	Current min/max, avg
	Voltage min/max, avg
	Frequency min/max, avg
	Total current harmonic distortion THD (I) per phase
	Total voltage harmonic distortion THD (U) per phase Power factor min/max, avg
	Apparent energy total
	Active and reactive energy total
Metering Type	Active, reactive, apparent energy (signed, four quadrant)
5 3.	Current I, I1, I2, I3
	Peak demand currents
	Peak demand power PM, QM, SM
	Unbalance current
	Active power P, P1, P2, P3
	Reactive power Q, Q1, Q2, Q3
	Demand power P, Q, S
	Voltage U, U21, U32, U13, V, V1, V2, V3
	Apparent power S, S1, S2, S3
	Calculated neutral current
Accuracy Class	Class 1 active energy conforming to IEC 62053-21
	Class 1 reactive energy conforming to IEC 62053-24
	Class 5 harmonic distorsion (I THD & U THD)
Measurement Accuracy	Apparent power +/- 1 %
	Active energy +/- 1 %
	Reactive energy +/- 1 %
	Active power +/- 1 %
	Voltage +/- 0.5 %
	Power factor +/- 0.01
	Current +/- 0.5 % Frequency +/- 0.05 %
Measurement Current	56000 mA
Measurement Voltage	35480 V AC 50/60 Hz between phases
	20277 V AC 50/60 Hz between phase and neutral
	480999000 V AC 50/60 Hz with external VT
Frequency Measurement Range	4565 Hz

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[Us] Rated Supply Voltage	44277 V AC 4565 Hz +/- 10 % 44277 V DC +/- 10 %
Network Frequency	50 Hz 60 Hz
Ride-Through Time	100 ms 120 V AC typical 400 ms 230 V AC typical 50 ms 125 V DC typical
[In] Rated Current	1 A 5 A
Maximum Power Consumption In Va	6 VA at 277 V AC
Maximum Power Consumption In W	3.3 W (power lines (AC)) 2 W at 277 V (power lines (DC))
Input Impedance	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
Demand Intervals	Configurable from 1 to 60 min
Information Displayed	Demand current (past value) Demand current (present value) Demand power (past value) Demand power (present value) Voltage Current Frequency Energy consumption Harmonic distortion Power factor Active power Apparent power Reactive power Unbalanced in % Harmonic amplitude
Control Type	4 x button
Local Signalling	Red LED: output signal 19999000 pulse/ k_h (kWh, kVAh, kVARh) Green LED: module operation and integrated communication
Number Of Inputs	0
Number Of Outputs	0
Communication Port Protocol	Modbus RTU at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, 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
Cybersecurity	Enable/disable communication ports
Communication Service	Remote monitoring
Language	Spanish French English Russian Portuguese German Chinese

Duradica t O - utifications	
Product Certifications	CE conforming to IEC 61010-1
	CULus conforming to UL 61010-1
	CULus conforming to CSA C22.2 No 61010-1
	RCM
	EAC
	C-Tick
Mounting Mode	Clip-on
Mounting Position	Vertical
Mounting Support	Framework
Provided Equipment	1 x installation guide
Measurement Category	Category III 480 V
	Category II 480600 V
Electrical Insulation Class	Double insulation
	Class II
Flame Retardance	V-0 conforming to UL 94
Connections - Terminals	Current transformer: screw connection (bottom) 6
	Voltage inputs: screw connection (top) 4
Material	Polycarbonate
Width	96 mm
Depth	76.09 mm total:
	61.64 mm embedded:
Height	96 mm
Net Weight	300 g
Compatibility Code	PM2220

Environment

Service Life	7 year(s)
Ip Degree Of Protection	IP54 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
Relative Humidity	595 % at 50 °C
Pollution Degree	2
Ambient Air Temperature For Operation	-1060 °C
Ambient Air Temperature For Storage	-2570 °C
Operating Altitude	<= 2000 m
Electromagnetic Compatibility	Electrostatic discharge conforming to IEC 61000-4-2 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 Surge immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Magnetic field at power frequency conforming to IEC 61000-4-8 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Emission tests conforming to FCC part 15 class A
Overvoltage Category	III

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.9 cm
Package 1 Width	12.2 cm

Package 1 Length	11.7 cm	
Package 1 Weight	270 a	



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Transparency RoHS/REACh

Well-being performance



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Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information