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METSEPM2120

EasyLogic PM2120 - Power & Energy meter - up to 15th H - LED - RS485 - class 1

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METSEPM1200

PM1200 power meter with energy and demand - with communication

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range	EasyLogic	
product name	EasyLogic PM2100	
device short name	PM2120	PM1200
product or component type	Power meter	Power meter
device application	Power monitoring Sub billing	
power quality analysis	Total harmonic distortion Up to the 15th harmonic	
type of measurement	Active and reactive energy (total) Active and reactive power (min/max, total) Apparent energy (total) Apparent power (min/max, total) Current (min/max, avg) Frequency (min/max, avg) Power factor (min/max, avg) Total current harmonic distortion THD (I) (per phase) Total voltage harmonic distortion THD (U) (per phase) Voltage (min/max, avg)	Active and reactive energy Active and reactive power Current Frequency Power factor Voltage
metering type	Active power P, P1, P2, P3 Active, reactive, apparent energy (signed, four quadrant) Apparent power S, S1, S2, S3 Calculated neutral current Current I, I1, I2, I3 Peak demand currents Reactive power Q, Q1, Q2, Q3 Unbalance current Voltage U, U21, U32, U13, V, V1, V2, V3	
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))	Class 1 (active energy according to IEC 62053-21) Class 2 (reactive energy according to IEC 62053-23)
measurement accuracy	+/- 0.01 power factor +/- 0.05 % frequency +/- 0.5 % current +/- 0.5 % voltage +/- 1 % active energy +/- 1 % active power +/- 1 % apparent power +/- 1 % reactive energy	± 0.1 % frequency ± 1 % apparent power ± 1 % current ± 1 % energy ± 1 % power ± 1 % power factor ± 1 % voltage
measurement current	5...6000 mA	50...6000 mA
measurement voltage	20...277 V AC 50/60 Hz between phase and neutral 35...480 V AC 50/60 Hz between phases 480...999000 V AC 50/60 Hz with external VT	0...999000 V AC 50/60 Hz with external VT 80...480 V AC 50/60 Hz phase to phase
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	50/60 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	
power consumption in VA	<= 6 VA at 277 V AC	
power consumption in W	<= 2 W at 277 V power lines (DC) <= 3.3 W power lines (AC)	
input impedance	Current (impedance <= 0.3 mOhm) Voltage (impedance > 5 MOhm)	Current 0...1 A (impedance <= 0.1 Ohm) Current 0...5 A (impedance <= 0.1 Ohm)
tamperproof of settings	Protected by access code	
display type	7 segments LED	LED
display colour	Red	
messages display capacity	3 fields of 4 characters	
display digits	12 digit(s) - 14.2 mm in height	
Demand intervals	Configurable from 1 to 60 min	
information displayed	Active power Apparent power Current Demand current past value Demand current present value Demand power past value Demand power present value Energy consumption Frequency Harmonic distortion Power factor Reactive power Unbalanced in % Voltage	
control type	3 x button	
local signalling	Green LED : module operation and integrated communication Red LED : output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)	
number of inputs	0	
number of outputs	0	
communication port protocol	Modbus RTU 2 wires, : 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps, even/odd or none, insulation: 2500 V	Modbus: 19.2 kbauds,
communication port support	Screw terminal block : RS485	RS485
data recording	Min/max for 8 parameters Time stamping	
function available	Real time clock	
sampling rate	64 samples/cycle	20 samples/cycle
cybersecurity	Enable/disable communication ports	
communication service	Remote monitoring	
product certifications	C-Tick CE conforming to IEC 61010-1 CULus conforming to CSA C22.2 No 61010-1 CULus conforming to UL 61010-1 EAC RCM	
mounting mode	Clip-on	Flush-mounted
mounting position	Vertical	
mounting support	Framework	Panel
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	
connections - terminals	Current transformer : bottom screw connection x 6 Voltage inputs : top screw connection x 4	
material	Polycarbonate	
cut-out dimensions	90 x 90 mm	
width	96 mm	96 mm
depth	61.64 mm embedded 76.09 mm total	80 mm (embedded)
height	96 mm	96 mm
product weight	300 g	0.4 kg
compatibility code	PM2120	PM1200
service life	7 yr	
IP degree of protection	IP30 (body) conforming to IEC 60529 IP54 (front) conforming to IEC 60529	IP40 (back) conforming to IEC 60529 IP51 (front face) conforming to IEC 60529
relative humidity	5...95 % 50 °C	5...95 %
pollution degree	2	
ambient air temperature for operation	-10...60 °C	-10...60 °C
ambient air temperature for storage	-25...70 °C	-25...70 °C
operating altitude	<= 2000 m	0...2000 m
electromagnetic compatibility	Conducted RF disturbances conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Electrostatic discharge conforming to IEC 61000-4-2 Emission tests conforming to FCC part 15 class A Magnetic field at power frequency conforming to IEC 61000-4-8 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Surge immunity test conforming to IEC 61000-4-5 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11	1.2/50 µs shock waves immunity test, conforming to IEC 61000-4-5 Conducted RF disturbances, conforming to IEC 61000-4-6 Conducted and radiated emissions class class A, conforming to CISPR 11 Electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 Electrostatic discharge immunity test, conforming to IEC 61000-4-2 Immunity to impulse waves, conforming to IEC 61000-4-12 Immunity to microbreaks and voltage drops, conforming to IEC 61000-4-11 Susceptibility to electromagnetic fields, conforming to IEC 61000-4-3
overvoltage category	III	III
Sustainable offer status	Green Premium product	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1601 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	Compliant - since 1320 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile	Available Product Environmental Profile
Product end of life instructions	Available	Available End of Life Information
range of product		PowerLogic PM1000
power quality analysis		Up to the 9th harmonic
supply voltage		44...277 V AC (50/60 Hz) 44...277 V DC

power consumption in VA		3 VA at 240 V AC
display resolution		3 lines with 4 digits
market segment		Residential Small commercial
type of installation		Indoor installation
standards		IEC 62052-11 IEC 62053-21
Warranty period		18 months