

Product datasheet

Specifications



EASYLOGIC PM1120H P&E THD RS485 CL 1.0

METSEPM1120HCL10RS

Main

Range	EasyLogic
Product Name	EasyLogic PM11XXH RS
Device Short Name	PM1120H
Product Or Component Type	Energy meter

Complementary

Power Quality Analysis	total harmonic distortion
Device Application	Energy monitoring
Type Of Measurement	Current Voltage Frequency Power factor Phase angle RPM Peak demand power Harmonic distortion (I THD & U THD) Active power Active energy
Metering Type	Reactive power Q, Q1, Q2, Q3 Rotation speed Voltage U21, U32, U13, V1, V2, V3 Power factor and displacement PF (signed, four quadrant) Unbalance current Frequency Demand power P, Q, S Apparent power S, S1, S2, S3 Phase currents Active power P, P1, P2, P3 Active, reactive, apparent energy (signed, two quadrant) Phase current I1, I2, I3 RMS Average current Iavg Average voltage Vavg Calculated neutral current Unbalance voltage
Counter Functions	ON-load hour counting Power interruption ON hour counting
[Us] Rated Supply Voltage	48...277 V AC 45...65 Hz 48...277 V DC
Network Frequency	60 Hz 50 Hz
[In] Rated Current	1 A 5 A

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Type Of Network	2P + N 2P 3P 3P + N 1P + N
Maximum Power Consumption In Va	4 VA at 240 V between phase and neutral
Maximum Power Consumption In W	2 W at 240 V
Display Type	8 segments LED
Display Colour	Red
Messages Display Capacity	3 fields of 4 characters
Display Digits	12 digit(s) - 14.2 mm in height
Communication Of Data	All counters Instantaneous and demand values Reading of measurements Last cleared log Revolution speed
Tamperproof Of Settings	Protected by access code
Sampling Rate	32 samples/cycle
Measurement Current	5...6000 mA
Signal	Voltage (impedance 5 MOhm)4 x Current 0.005...10 A (impedance 0.3 MOhm)6 x
Measurement Voltage	46...277 V AC 50...60 Hz between phase and neutral 80...480 V AC 50...60 Hz between phases 277...999000 V AC 50...60 Hz with external VT
Frequency Measurement Range	45...65 Hz
Measurement Accuracy	Current +/- 0.5 % Voltage +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.01 Reactive power +/- 2 % Active power +/- 1 % Apparent power +/- 1 % Active energy +/- 1 % Reactive energy +/- 2 % Apparent energy +/- 1 % Harmonic distortion (I THD & U THD) +/- 5 %
Accuracy Class	Class 1 active energy conforming to IEC 62053-21 Class 1 reactive energy conforming to IEC 62053-24
Demand Intervals	1 s
Local Signalling	Green LED: activity Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Communication Port Protocol	Modbus at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V
Communication Port Support	Screw connector: RS485
Data Recording	Energy consumption logs
Material	Polycarbonate
Flame Retardance	V-0 conforming to UL 94
Mounting Mode	Flush-mounted
Mounting Support	Framework
Provided Equipment	Installation guide
Installation Category	III
Type Of Installation	Indoor installation

Measurement Category	Category III 480 V
Electrical Insulation Class	Class II
Connections - Terminals	Current circuit: screw clamp terminals (bottom) 2.08...3.31 mm ² cable(s) Voltage circuit: screw clamp terminals (top) 0.82...3.31 mm ² cable(s) Control circuit: screw clamp terminals (top) 0.82...3.31 mm ² cable(s) Communication: screw clamp terminals (bottom) 0.33...3.31 mm ² cable(s)
Tightening Torque	Current circuit: 0.9...1 N.m Philips No 2 screwdriver Voltage circuit: 0.9...1 N.m Philips No 2 screwdriver Control circuit: 0.9...1 N.m Philips No 2 screwdriver Communication: 0.5...0.6 N.m Philips no 1 screwdriver
Wire Stripping Length	Current circuit: 3.68 mm Voltage circuit: 7 mm Control circuit: 7 mm 7 mm
Standards	IEC 61010-1:ed. 3 UL 61010-1:ed. 3
Product Certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 C-Tick
Width	96 mm
Depth	Outside : 13 mm Panel : 49 mm
Height	96 mm
Net Weight	300 g

Environment

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 Emission tests conforming to FCC part 15 Subpart C Emission tests conforming to FCC part 15 Subpart E
Overvoltage Category	III
IP Degree Of Protection	IP51 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
Relative Humidity	5...95 % at 50 °C
Pollution Degree	2
Ambient Air Temperature For Operation	-10...60 °C
Ambient Air Temperature For Storage	-20...70 °C
Operating Altitude	<= 2000 m
Service Life	7 year(s)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.88 cm
Package 1 Width	9.6 cm

Package 1 Length	9.6 cm
Package 1 Weight	265 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	18
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4770 g
Unit Type Of Package 3	P06
Number Of Units In Package 3	144
Package 3 Height	105 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	38.2 kg

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

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](#)