Product datasheet

Specifications

EASYLOGIC PM1120H P&E THD RS485 CL 0.5

METSEPM1120HCL05RD

Discontinued on: 30-Jun-2024

To be discontinued

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 distorsion (I THD & U THD) Active power Active energy
Metering type	Reactive power Q, Q1, Q2, Q3 Average voltage Vavg Unbalance current Active power P, P1, P2, P3 Frequency Power factor and displacement PF (signed, four quadrant) Phase currents Average current Iavg Active, reactive, apparent energy (signed, two quadrant) Demand power P, Q, S Voltage U21, U32, U13, V1, V2, V3 Apparent power S, S1, S2, S3 Phase current I1, I2, I3 RMS Rotation speed Unbalance voltage Calculated neutral current
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

type of network	3P 2P + N 1P + N 2P 3P + 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	Last cleared log Revolution speed Instantaneous and demand values All counters Reading of measurements
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 % Reactive energy +/- 2 % Active power +/- 0.5 % Apparent power +/- 0.5 % Active energy +/- 0.5 % Apparent energy +/- 0.5 % Harmonic distorsion (I THD & U THD) +/- 5 %
Accuracy class	Class 1 reactive energy conforming to IEC 62053-24 Class 0.5 active energy conforming to IEC 62053-22
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 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Communication: screw clamp terminals (bottom) 0.33…3.31 mm² 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	0.265 kg
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.77 kg

Sustainability

Green Premium^{TM} 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-CO_2 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

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes

Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information