

# Product datasheet

Specifications



## EASYLOGIC PM1130H DUAL P&E RLY RS CL 0.5

METSEPM1130HCL05RS

### Main

Range	EasyLogic
Product Name	EasyLogic PM11XXH RS
Device Short Name	PM1130H
Product Or Component Type	Dual source energy meter

### Complementary

Power Quality Analysis	total harmonic distortion
Device Application	Energy monitoring Main or redundant power 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
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Metering Type	Unbalance current Power factor and displacement PF (signed, four quadrant) Reactive power Q, Q1, Q2, Q3 Average current Iavg Active, reactive, apparent energy (signed, two quadrant) Active power P, P1, P2, P3 Frequency Calculated neutral current Voltage U21, U32, U13, V1, V2, V3 Unbalance voltage Rotation speed Demand power P, Q, S Phase currents Apparent power S, S1, S2, S3 Phase current I1, I2, I3 RMS Average voltage Vavg
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Counter Functions	ON-load source 1 hour counting ON hour counting ON-load source 2 hour counting Power interruption
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[Us] Rated Supply Voltage	48...277 V AC 45...65 Hz 48...277 V DC
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Network Frequency	60 Hz 50 Hz
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[In] Rated Current	5 A 1 A
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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

<b>Type Of Network</b>	2P 2P + N 3P 1P + N 3P + N
<b>Maximum Power Consumption In Va</b>	4 VA at 240 V between phase and neutral
<b>Maximum Power Consumption In W</b>	2 W at 240 V
<b>Display Type</b>	7 segments LED
<b>Display Colour</b>	Red
<b>Messages Display Capacity</b>	3 fields of 4 characters
<b>Display Digits</b>	12 digit(s) - 14.2 mm in height
<b>Communication Of Data</b>	Last cleared log Reading of measurements All counters Revolution speed Instantaneous and demand values
<b>Tamperproof Of Settings</b>	Protected by access code
<b>Sampling Rate</b>	32 samples/cycle
<b>Measurement Current</b>	5...6000 mA
<b>Signal</b>	Voltage (impedance 5 MOhm)4 x Current 0.005...10 A (impedance 0.3 MOhm)6 x
<b>Measurement Voltage</b>	35...480 V AC 50...60 Hz between phases 35...277 V AC 50...60 Hz between phase and neutral 277...999000 V AC 50...60 Hz with external VT
<b>Frequency Measurement Range</b>	45...65 Hz
<b>Measurement Accuracy</b>	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 distortion (I THD & U THD) +/- 5 %
<b>Accuracy Class</b>	Class 2 reactive energy conforming to IEC 62053-23 Class 0.5 active energy conforming to IEC 62053-22
<b>Number Of Outputs</b>	1 relay
<b>Output Voltage</b>	300 V AC@2 A
<b>Demand Intervals</b>	1 s
<b>Local Signalling</b>	Green LED: activity Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh) Red LED: alternate source
<b>Communication Port Protocol</b>	Modbus at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V
<b>Communication Port Support</b>	RS485
<b>Data Recording</b>	Energy consumption logs
<b>Material</b>	Polycarbonate
<b>Flame Retardance</b>	V-0 conforming to UL 94
<b>Mounting Mode</b>	Flush-mounted
<b>Mounting Support</b>	Framework

<b>Provided Equipment</b>	Installation guide
<b>Installation Category</b>	III
<b>Type Of Installation</b>	Indoor installation
<b>Measurement Category</b>	Category III 480 V
<b>Electrical Insulation Class</b>	Class II
<b>Connections - Terminals</b>	Current circuit: screw clamp terminals (bottom) 2.08...3.31 mm <sup>2</sup> cable(s) Voltage circuit: screw clamp terminals (top) 0.82...3.31 mm <sup>2</sup> cable(s) Control circuit: screw clamp terminals (top) 0.82...3.31 mm <sup>2</sup> cable(s) Communication: screw clamp terminals (bottom) 0.33...3.31 mm <sup>2</sup> cable(s) Secondary circuit: screw clamp terminals (bottom) 0.33...3.31 mm <sup>2</sup> cable(s) Relay output: screw clamp terminals (rear) 0.33...3.31 mm <sup>2</sup> cable(s)
<b>Tightening Torque</b>	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 Secondary circuit: 0.5...0.6 N.m Philips no 1 screwdriver Relay output: 0.5...0.6 N.m Philips no 1 screwdriver
<b>Wire Stripping Length</b>	Current circuit: 3.68 mm Voltage circuit: 7 mm Control circuit: 7 mm Communication: 7 mm 7 mm
<b>Standards</b>	IEC 61010-1:ed. 3 UL 61010-1:ed. 3
<b>Product Certifications</b>	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 C-Tick
<b>Width</b>	96 mm
<b>Depth</b>	13 mm outside: 52 mm panel:
<b>Height</b>	96 mm
<b>Net Weight</b>	300 g

## Environment

<b>Electromagnetic Compatibility</b>	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
<b>Overvoltage Category</b>	III
<b>Ip Degree Of Protection</b>	IP51 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
<b>Relative Humidity</b>	5...95 % at 50 °C
<b>Pollution Degree</b>	2
<b>Ambient Air Temperature For Operation</b>	-10...60 °C
<b>Ambient Air Temperature For Storage</b>	-20...70 °C
<b>Operating Altitude</b>	<= 2000 m
<b>Service Life</b>	7 year(s)

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.04 cm
Package 1 Width	9.6 cm
Package 1 Length	9.6 cm
Package 1 Weight	285 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	5130 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	41.1 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-CO<sub>2</sub> 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](#)