Product datasheet

Specifications



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

METSEPM2120

Main

Range	EasyLogic
Product name	EasyLogic PM2100
Product or component type	Power meter
Device short name	PM2120

Complementary

Device application	Sub billing Power monitoring
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	Current I, I1, I2, I3 Peak demand power PM, QM, SM Active, reactive, apparent energy (signed, four quadrant) Peak demand currents Active power P, P1, P2, P3 Calculated neutral current Voltage U, U21, U32, U13, V, V1, V2, V3 Unbalance current Reactive power Q, Q1, Q2, Q3 Demand power P, Q, S Apparent power S, S1, S2, S3
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 1 reactive energy conforming to IEC 62053-24 Class 5 harmonic distortion (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	5…6000 mA
Measurement voltage	35…480 V AC 50/60 Hz between phases 20…277 V AC 50/60 Hz between phase and neutral 480…999000 V AC 50/60 Hz with external VT
Frequency measurement range	45…65 Hz

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

[Us] rated supply voltage	44...277 V AC 45...65 Hz +/- 10 % 44...277 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	7 segments 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	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 %
Control type	3 x button
Local signalling	Red LED: output signal 1...9999000 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
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 480…600 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	Total : 76.09 mm Embedded : 61.64 mm
Height	96 mm
Product weight	300 g
Compatibility code	PM2120

Environment

service life	7 year(s)
IP degree of protection	IP54 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	-25…70 °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	9.000 cm
Package 1 Width	12.000 cm
Package 1 Length	12.500 cm
Package 1 Weight	403.000 g
Unit Type of Package 2	S03

Number of Units in Package 2	18
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.831 kg
Unit Type of Package 3	P06
Number of Units in Package 3	144
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	70.648 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**153 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**15 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**137 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.6 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**408f3656-3c4a-4246-a1bc-3e783803af5e**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**9**
End of life manual availability	**End of Life Information**
Removable battery	**No**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**