Product datasheet

Specifications

EasyLogic PM2110, Power & Energy meter, Total Harmonic, LED display, Pulse, class 1

METSEPM2110

Main

Range	EasyLogic
product name	EasyLogic PM2100
Product or component type	Power meter
Device short name	PM2110

Complementary

Device application	Power monitoring Sub billing
Power quality analysis	total harmonic distortion
Type of measurement	Total current harmonic distortion THD (I) per phase Total voltage harmonic distortion THD (U) per phase Apparent energy total Active and reactive energy total Apparent power total Active and reactive power total Current average Voltage average Frequency average Power factor average
Metering type	Peak demand power PM, QM, SM Apparent power S, S1, S2, S3 Current I, I1, I2, I3 Reactive power Q, Q1, Q2, Q3 Calculated neutral current Voltage U, U21, U32, U13, V, V1, V2, V3 Peak demand currents Unbalance current Demand power P, Q, S Active power P, P1, P2, P3 Active, reactive, apparent energy (signed, four quadrant)
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 1 reactive energy conforming to IEC 62053-24
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.

[Us] rated supply voltage	44...277 V AC 45...65 Hz +/- 10 % 44...277 V DC +/- 10 %
Network frequency	60 Hz 50 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	5 A 1 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 operating (RUN)
Number of inputs	0
Number of outputs	1 pulse
POP parameter	Pulse: 20 ms (5...40 V DC, 20 mA max)1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Impulse duration	20 ms
Communication port protocol	POP
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
Net weight	300 g
Compatibility code	PM2110

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	11.94 cm
Package 1 Width	12.19 cm
Package 1 Length	9.14 cm
Package 1 Weight	0.41 kg

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

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	408f3656-3c4a-4246-a1bc-3e783803af5e
REACh Regulation	REACh Declaration

Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins