Product data sheet
Characteristics

METSEPM2210
EasyLogic PM2210 - Power & Energy meter - Total Harmonic - LED - Pulse - class 1

Main

Range	EasyLogic
Product name	EasyLogic PM2200
Device short name	PM2210
Product or component type	Power meter

Complementary

Device application	Sub billing Power monitoring
Power quality analysis	Total harmonic distortion
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	Peak demand currents Demand current I1, I2, I3 Demand power P, Q, S Peak demand power PM, QM, SM Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Active power P, P1, P2, P3 Voltage U21, U32, U13, V1, V2, V3 Active, reactive, apparent energy (signed, four quadrant) Unbalance current Calculated neutral current
Accuracy class	Class 1 (active energy according to IEC 62053-21) Class 1 (reactive energy according to IEC 62053-24)
Measurement accuracy	+/- 0.5 % active energy +/- 0.5 % active power

	+/- 0.5 % apparent power +/- 0.05 % frequency +/- 1 % reactive energy +/- 0.5 % current +/- 0.5 % voltage +/- 0.01 power factor
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
[Us] rated supply voltage	44...277 V AC +/- 10 % (45...65 Hz) 44...277 V DC +/- 10 %
Network frequency	60 Hz 50 Hz
[In] rated current	5 A 1 A
Power consumption in VA	8 VA at 240 V AC
Power consumption in W	3.3 W power lines (AC) < 2 W power lines (DC)
Analogue input type	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
Tamperproof of settings	Protected by access code
Display type	Backlit LCD
Display colour	Monochrome
Display resolution	128 x 128 pixels
Refresh time	Configurable from 1 to 60 min
Information displayed	Voltage Current Frequency Energy consumption Harmonic distortion Demand current past value Demand current present value Demand power past value Demand power present value Power factor Active power Apparent power Reactive power Unbalanced in % Harmonic amplitude
Control type	4 x button
Local signalling	Green LED : module operating (RUN) Red LED : output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Output voltage	Pulse: 20 ms (5...40 V DC, 20 mA max) 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Communication port protocol	POP
Sampling rate	64 samples/cycle
Ethernet service	Enable/Disable serial ports
Communication service	Remote monitoring
Language	English German Portuguese Russian Spanish French Chinese
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 EAC CULus conforming to CSA C22.2 No 61010-1 RCM C-Tick
Mounting mode	Clip-on

Mounting position	Vertical
Mounting support	Framework
Provided equipment	Installation guide 1
Measurement category	Category III up to <= 480 V Category II up to > 480...600 V
Electrical insulation class	Double insulation Class II
Flame retardance	V-0 conforming to UL 94
Connections - terminals	Current transformer : bottom screw connection x 6 Voltage inputs : top screw connection x 4
Material	Polycarbonate
Cut-out dimensions	90 x 90 mm
Width	96 mm
Depth	76.09 mm total 61.64 mm embedded
Height	96 mm
Product weight	300 g

Environment

Service life	> 7 yr
IP degree of protection	IP30 (body) conforming to IEC 60529 IP51 (front) conforming to IEC 60529
Relative humidity	5...95 % 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 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 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Emission tests conforming to FCC part 15 class A Voltage dips and interruptions immunity test conforming to IEC 61000-4-11
Overvoltage category	III

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1601 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of life manual
Product end of life instructions	Available