Product data sheet
Characteristics

METSEPM2130
EasyLogic PM2130 - Power & Energy meter - up to 31st H - 7S - RS485 - class 0.5

Main

Range	EasyLogic
Product name	EasyLogic PM2100
Device short name	PM2130
Product or component type	Power meter

Complementary

Device application	Power monitoring Sub billing
Power quality analysis	Up to the 31st harmonic 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	Demand current I1, I2, I3 Peak demand power PM, QM, SM Voltage U21, U32, U13, V1, V2, V3 Peak demand currents Active, reactive, apparent energy (signed, four quadrant) Active power P, P1, P2, P3 Calculated neutral current Demand power P, Q, S Unbalance current Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3
Accuracy class	Class 0.5S (active energy according to IEC 62053-22) Class 1 (reactive energy according to IEC 62053-24) Class 5 (harmonic distorsion (I THD & U THD)
Measurement accuracy	+/- 0.5 % active energy +/- 0.5 % active power +/- 0.5 % apparent power +/- 0.05 % frequency +/- 1 % reactive energy +/- 0.5 % current

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	+/- 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	50 Hz 60 Hz
[In] rated current	1 A 5 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	7 segments LED
Display colour	Red
Messages display capacity	3 fields of 4 characters
Display digits	12 digit(s) - 14.2 mm in height
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 %
Control type	3 x button
Local signalling	Green LED : module operation and integrated communication Red LED : output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Communication port protocol	Modbus RTU 2 wires, : 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps, even/odd or none, insulation: 2500 V
Communication port support	Screw terminal block : RS485
Data recording	Min/Max for 8 parameters Power logs Time stamping Energy consumption logs
Function available	Real time clock
Sampling rate	64 samples/cycle
Ethernet service	Enable/Disable serial ports
Communication service	Remote monitoring
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	Not 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 Product environmental