

Product datasheet

Specifications



Conzerv Power and Energy meter - instantaneous, pulse output, THD, Class 1.0

METSEEM6400NGPOCL1

Main

Range	EasyLogic
Product name	EM6400NG+ POP
Product or component type	Energy meter

Complementary

Power quality analysis	total harmonic distortion
Device application	Power monitoring

Type of measurement	Current Voltage Frequency Apparent energy Apparent power Active and reactive energy Active and reactive power
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Metering type	Average voltage V _{avg} Peak demand power PM, QM, SM Demand power P, Q, S Apparent power S, S1, S2, S3 Unbalance current Power factor and displacement PF (signed, four quadrant) Calculated neutral current Active, reactive, apparent energy (signed, four quadrant) Active power P, P1, P2, P3 Voltage U21, U32, U13, V1, V2, V3 Phase currents Average current I _{avg} Peak demand currents Reactive power Q, Q1, Q2, Q3 Demand current I1, I2, I3
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[Us] rated supply voltage	40...300 V AC 45...65 Hz 40...300 V DC
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Network frequency	50 Hz 60 Hz
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[In] rated current	5 A 1 A
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type of network	3P 1P + N 2P + N 3P + N 2P
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Maximum power consumption in VA	6 VA at 277 V between phase and neutral
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Maximum power consumption in W	2 W at 277 V
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Display type	7 segments LED
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Display colour	Red
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Messages display capacity	3 fields of 4 characters
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Display digits	12 digit(s) - 14.2 mm in height
Communication of data	Energy metering Net energy Reading of time-stamped measurements and events Total energy
Tamperproof of settings	Protected by access code
Sampling rate	64 samples/cycle
Measurement current	5...6000 mA
Signal	Current 0...12 A (impedance 0.3 MOhm)6 x Voltage (impedance 5 MOhm)4 x
Measurement voltage	35...480 V AC 45...65 Hz between phases 35...277 V AC 45...65 Hz between phase and neutral 35...600 V AC 45...65 Hz between phases 35...347 V AC 45...65 Hz between phase and neutral 600...999000 V AC 45...65 Hz with external VT
Frequency measurement range	45...65 Hz
Measurement accuracy	Current +/- 0.5 % Voltage +/- 0.5 % Power +/- 0.5 % Frequency +/- 0.05 % Power factor +/- 0.01
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class 5P total current harmonic distortion THD (I) conforming to IEC 61557-12 Class 5P total voltage harmonic distortion THD (U) conforming to IEC 61557-12
Number of outputs	1 pulse
Output voltage	5...40 V DC@20 mA
Impulse duration	20 ms
Demand intervals	Configurable from 1 to 60 min
Local signalling	Green LED: activity Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh)
Communication port protocol	-
Communication port support	-
Data recording	Energy consumption logs
Material	Polycarbonate
Flame retardance	V-0 conforming to UL 94
Mounting mode	Flush-mounted
Mounting support	Framework
Installation category	III
Type of installation	Indoor installation
Measurement category	Category III 480 V Category II 480...600 V
Electrical insulation class	Class II
Connections - terminals	Current circuit: screw clamp terminals (bottom) 2.08...3.31 mm ² cable(s) Voltage circuit: screw clamp terminals (top) 0.82...3.31 mm ² cable(s) Control circuit: screw clamp terminals (top) 0.82...3.31 mm ² cable(s) Communication: screw clamp terminals 0.33...3.31 mm ² cable(s)
Tightening torque	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: 0.9...1 N.m Philips No 2 screwdriver

Wire stripping length	Current circuit: 3.68 mm Voltage circuit: 7 mm Control circuit: 7 mm Communication: 7 mm
Standards	IEC 61010-1:ed. 3 UL 61010-1:ed. 3
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 C-Tick
Width	96 mm
Depth	Panel : 73 mm Outside : 13 mm
Height	96 mm
Net weight	600 g

Environment

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
IP degree of protection	IP51 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	-20...70 °C
Operating altitude	<= 2000 m
service life	7 year(s)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.2 cm
Package 1 Width	9.6 cm
Package 1 Length	9.6 cm
Package 1 Weight	0.5 kg

Contractual warranty

Warranty (in months)	18
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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	283 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	38 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	243 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 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	1e118aef-b19c-4467-88e5-d3127183205f

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	11
End of life manual availability	End of Life Information
Take-back	No