Product datasheet

Specification





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	
Metering Type	Average voltage Vavg	
	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 lavg	
	Peak demand currents	
	Reactive power Q, Q1, Q2, Q3	
	Demand current I1, I2, I3	
[Us] Rated Supply Voltage	40300 V AC 4565 Hz	
	40300 V DC	
Network Frequency	50 Hz	
	60 Hz	
[In] Rated Current	5 A	
[] Mateur Guillone	1 A	
Type Of Network	3P	
Type Of Network	1P + N	
	2P + N	
	3P + N	
	2P	
Maximum Power Consumption In Va	6 VA at 277 V between phase and neutral	
Maximum Power Consumption In W	2 W at 277 V	
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
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	56000 mA
Signal	Current 012 A (impedance 0.3 MOhm)6 x Voltage (impedance 5 MOhm)4 x
Measurement Voltage	35480 V AC 4565 Hz between phases 35277 V AC 4565 Hz between phase and neutral 35600 V AC 4565 Hz between phases 35347 V AC 4565 Hz between phase and neutral 600999000 V AC 4565 Hz with external VT
Frequency Measurement Range	4565 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	540 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 19999000 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 480600 V
Electrical Insulation Class	Class II
Connections - Terminals	Current circuit: screw clamp terminals (bottom) 2.083.31 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.823.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.823.31 mm² cable(s) Communication: screw clamp terminals 0.333.31 mm² cable(s)
Tightening Torque	Current circuit: 0.91 N.m Philips No 2 screwdriver Voltage circuit: 0.91 N.m Philips No 2 screwdriver Control circuit: 0.91 N.m Philips No 2 screwdriver Communication: 0.91 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	73 mm panel: 13 mm outside:	
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	595 % at 50 °C	
Pollution Degree	2	
Ambient Air Temperature For Operation	-1060 °C	
Ambient Air Temperature For Storage	-2070 °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

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

20-Apr-2024