

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

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 Iavg
Peak demand currents
Reactive power Q, Q1, Q2, Q3
Demand current I1, I2, I3

[Us] rated supply voltage	40...300 V AC 45...65 Hz 40...300 V DC
Network frequency	50 Hz 60 Hz
[In] rated current	5 A 1 A
Type of network	3P 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	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	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	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

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Recommended replacement(s)