Product datasheet

Specifications

Green Premium™

Conzerv Power and Energy meter - inst., pulse, RS485, THD, 15th Har, Class 0.2

METSEEM6400NGRSCL2

Main

Range	EasyLogic
Product Name	EM6400NG+ RS-485
Product Or Component Type	Energy meter

Complementary

Power Quality Analysis	up to the 15th harmonic
Device Application	Power monitoring
Type Of Measurement	Current Voltage Frequency Apparent energy Apparent power Active and reactive energy Active and reactive power
Metering Type	Demand current I1, I2, I3 Active, reactive, apparent energy (signed, four quadrant) Active power P, P1, P2, P3 Unbalance current Average current Iavg Peak demand currents Average voltage Vavg Phase currents Reactive power Q, Q1, Q2, Q3 Power factor and displacement PF (signed, four quadrant) Unbalance voltage Calculated neutral current Voltage U21, U32, U13, V1, V2, V3 Peak demand power PM, QM, SM Apparent power S, S1, S2, S3 Demand power P, Q, S
[Us] Rated Supply Voltage	40...300 V AC 45...65 Hz 40...300 V DC
Network Frequency	60 Hz 50 Hz
[In] Rated Current	5 A 1 A
Type Of Network	3P 2P 2P + N 1P + N 3P + N
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Messages Display Capacity	3 fields of 4 characters
Display Digits	12 digit(s) - 14.2 mm in height
Communication Of Data	Net energy Energy metering 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 harmonic distorsion (I THD & U THD) conforming to IEC 61557-12 Class 5P individual harmonics up to the 15th conforming to IEC 61557-12
Number Of Outputs	0
Demand Intervals	Configurable from 1 to 60 min
Information Displayed	Voltage (min/max) Current (min/max) Power factor (min/max) Frequency (min/max) Active power (min/max) Apparent power (min/max) Reactive power (min/max) Time (min/max) Demand current (past value) Demand current (present value) Demand power (past value) Demand power (present value)
Local Signalling	Green LED: activity Red LED: output signal 1...9999000 pulse/ k_h (kWh, kVAh, kVARh) Green LED: communication status
Communication Port Protocol	Modbus at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V
Communication Port Support	RS485
Data Recording	Time stamping Energy consumption logs Min/max of instantaneous values
Material	Polycarbonate
Flame Retardance	V-0 conforming to UL 94
Mounting Mode	Panel-mounted Flush-mounted
Mounting Support	Framework
Fixing Mode	By clamp
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 mm² cable(s) Voltage circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Control circuit: screw clamp terminals (top) 0.82…3.31 mm² cable(s) Communication: screw clamp terminals 0.33…3.31 mm² 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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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