

Product data sheet Characteristics

METSEEM6400NGRSCL1

Conzerv Power and Energy meter - inst., pulse, RS485, THD, 15th Har, Class 1.0





Main

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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	Power factor and displacement PF (signed, four quadrant) Voltage U21, U32, U13, V1, V2, V3 Peak demand power PM, QM, SM Peak demand currents Phase currents Average current lavg Apparent power S, S1, S2, S3 Calculated neutral current Unbalance voltage Average voltage Vavg Demand current I1, I2, I3 Unbalance current Reactive power Q, Q1, Q2, Q3 Demand power P, Q, S Active power P, P1, P2, P3 Active, reactive, apparent energy (signed, four quadrant)
[Us] rated supply voltage	40300 V AC 4565 Hz 40300 V DC
Network frequency	60 Hz 50 Hz
[In] rated current	5 A 1 A
Type of network	3P + N 2P + N 2P 3P 1P + 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

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Display colour	Red
Messages display capacity	3 fields of 4 characters
Display digits	12 digit(s) - 14.2 mm in height
Communication of data	Net energy Total energy Reading of time-stamped measurements and events Energy metering
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 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 power (past value) Demand power (past value) Demand power (present value)
Local signalling	Green LED: activity Red LED: output signal 19999000 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	Min/Max of instantaneous values Energy consumption logs Time stamping
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 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
rightering torque	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
	Communication: 0.9 1 N.III Philips No 2 Sciewdiver
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[RETURN]CULus conforming to UL
	61010-1[RETURN]CULus conforming to CSA C22.2 No 61010-1[RETURN]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

. c.cg cc		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	10.3 cm	
Package 1 Width	11.6 cm	
Package 1 Length	13.2 cm	
Package 1 Weight	500 g	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information