Product datasheet

Specification





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

METSEEM6400NGRSCL1

Main

Range	EasyLogic
Product name	EM6400NG+ RS-485
Product or component type	Energy meter

Power quality analysis	up to the 15th harmonic
	up to the Tournamonic
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
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	
Acouracy class	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 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	
y	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 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	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	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	10.3 cm
Package 1 Width	11.6 cm

Package 1 Length	13.2 cm	
Package 1 Weight	500 a	



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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