



Main

Range	PowerLogic
Product name	PowerLogic EM4200
Device short name	Enercept
Product or component type	Energy meter
Type of cable	IEC cable
Device application	Power monitoring

Complementary

Metering type	Peak demand power PM, QM, SM Average current Iavg Power factor Active, reactive, apparent energy (signed, four quadrant) Frequency Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Voltage U21, U32, U13, V1, V2, V3 Demand power P, Q, S
Measurement voltage	90 V AC 45...65 Hz minimum per phase 480 V AC 45...65 Hz between phases 300 V AC 45...65 Hz between phase and neutral
Frequency measurement range	45...65 Hz
Network frequency	50 Hz 60 Hz
Display type	Without display
Control type	ADDRESS, range: 1...99 with rotary switch(es) CT AMPS, range: 5...5000 with rotary switch(es)
Local signalling	Green and red LED : status Green, orange and red LED : line fault, 3 pulse/ k_h (kWh, kVAh, kVARh) Yellow LED : dial pointer indication Green, orange and red LED : RX/TX, 2 pulse/ k_h (kWh, kVAh, kVARh)
Analogue input type	Current 0.333 V (impedance 33 kOhm) Voltage (impedance 2.5 MOhm) single phase Voltage (impedance 5 MOhm) phase to phase
Number of inputs	0
Number of outputs	0
Communication port protocol	Modbus RTU : 9600 bauds...115200 bauds (automatic detection),

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

	BACnet MS/TP : 9600 bauds...115200 bauds (automatic detection),
Communication of data	Net energy Total energy
Function available	Fixed or rolling block
Provided equipment	Bracket for support Hook
Connections - terminals	Input/Output : bottom plug-in connector 0.2...1.5 mm ² Current transformer : bottom plug-in connector 0.2...1.5 mm ² Communication : bottom plug-in connector 0.2...1.5 mm ²
Wire stripping length	6 mm
Mounting mode	Clip-on By screws By hook
Mounting support	DIN rail Enclosure
Standards	EN 61010-1 UL 61010-1
Product certifications	CULus conforming to UL 61010-1 CE conforming to EN 61010-1 IEC BTL
Width	46.63 mm
Depth	35.81 mm
Height	152.36 mm

Environment

Measurement category	Category III up to 277 V Category III up to 300 V
Electromagnetic compatibility	<ul style="list-style-type: none"> • conducted and radiated emissions, conforming to FCC part 15 class A • conducted and radiated emissions, conforming to EN 61000-6-4 • conducted and radiated emissions, conforming to EN 61326 + A1 • immunity to conducted disturbances, conforming to EN 61000-6-2 • immunity to conducted disturbances, conforming to EN 61326-1 • immunity to radiated fields, conforming to EN 61000-6-2 • immunity to radiated fields, conforming to EN 61326-1
IP degree of protection	IP20 conforming to IEC 60529
Relative humidity	0...95 %
Pollution degree	2
Ambient air temperature for operation	-30...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	< 3000 m

Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant Will not be compliant
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