

Product datasheet

Specifications



EM7280 Demand controller CI 0.5S RS485

30002198

Main

Range	EasyLogic
Product Name	EasyLogic EM7200
Device Short Name	EM7280
Product Or Component Type	Smart demand controller

Complementary

Power Quality Analysis	total harmonic distortion
Type Of Measurement	Measurement cycle as true rms value Total current harmonic distortion THD (I) per phase Total voltage harmonic distortion THD (U) per phase Individual harmonics up to the 15th per phase Phase angle
Metering Type	Active, reactive, apparent energy (signed, four quadrant) Demand power P, Q, S Demand current I1, I2, I3 Unbalance current Unbalance voltage
[Us] Rated Supply Voltage	90...277 V AC 120...300 V DC
Network Frequency	50 Hz 60 Hz
[In] Rated Current	1 A 5 A
Type Of Network	3P 3P + N
Maximum Power Consumption In Va	10 VA at 240 V on power supply 0.2 VA current and voltage
Maximum Power Consumption In W	4.5 W at 300 V (maximum)
Display Type	Graphic display terminal
Display Colour	Monochrome
Display Resolution	128 x 128 pixels
Messages Display Capacity	4 lines
Communication Of Data	Net energy
Tamperproof Of Settings	Protected by access code
Measurement Current	0.010...1.2 A 0.050...6 A
Signal	Current3 x Voltage4 x

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

Measurement Voltage	110...415 V AC nominal 90...480 V AC without PTs
Frequency Measurement Range	47.5...63 Hz
Measurement Accuracy	Voltage 0.5 % Current 0.5 % Active power 0.5 % Apparent power 0.5 % Power factor 0.5 % Reactive power 2 %
Accuracy Class	Class 0.5S conforming to IEC 62052-11 Class 0.5S conforming to IEC 62053-22 Class 2 reactive energy conforming to IEC 62053-23
Number Of Outputs	3 form C relay
Output Voltage	22...26 V DC@8 mA
Communication Port Protocol	Modbus RTU
Communication Port Support	RS485
Measurement Category	Category III
Electrical Insulation Class	Double insulation
Product Certifications	UL CUL listed C-Tick conforming to IEC 61010-1 C-Tick conforming to UL 61010-1 CE
Width	96 mm
Depth	72 mm inside:
Height	96 mm

Environment

Electromagnetic Compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Immunity to radiated fields conforming to IEC 61000-4-3 Immunity to fast transients conforming to IEC 61000-4-4 Surge withstand conforming to IEC 61000-4-5 Immunity tests-conducted disturbances conforming to IEC 61000-4-6 Immunity to magnetic fields conforming to IEC 61000-4-8 Immunity to voltage dips conforming to IEC 61000-4-11 Radiated emission A conforming to CISPR 11 Conducted emission A conforming to CISPR 11
Ip Degree Of Protection	IP51 front: IP30 rear:
Relative Humidity	0...95 %
Pollution Degree	2
Ambient Air Temperature For Operation	-10...60 °C
Ambient Air Temperature For Storage	-25...70 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	12.5 cm
Package 1 Length	10.9 cm
Package 1 Weight	500.0 g

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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)

Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration