



eManager Pro Energy X2

eManager Pro Energy X2, ARM controller

Code: D302000080000 DESCATALOGADO

- > Memory: 512 MB | 8 GB eMMC
- > Módules: 7
- > Communications: RS232/485 | Ethernet | Wi-Fi
- > System: 2 xThree-phase / 6 xSingle-phase
- > Power supply: 85 ... 264 V~
- > CPU: ARM Cortex A7 800 MHz

Description

eManager Energy is an industrial IoT controllers product range with integrated three-phase energy metering. eManager Energy centralizes power network analyzer features with datalogging and communications.

The energy module is able to measure up to one three-phase circuit or three single-phase circuits. It integrates 4 quadrant monitoring, including the main electrical parameters for single-phase and three-phase. Measurement accuracy is Class 1 Active and Class 2 Reactive; and the secondary current is 1 A.

In addition, a custom Node-RED node is available to facilitate the data collecting and displaying with a local real-time dashboard that can be accessed via their own Wi-Fi network.



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Specifications

AC power supply

Consumption	8,8 ... 10,5 VA
Frequency	47 ... 63 Hz
Nominal voltage	85 ... 264 V~

DC power supply

Consumption	6,4 ... 6,5 W
Nominal voltage	120 ... 300 Vdc

Electrical characteristics

Isolation level	3 kVac
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Mechanical characteristics

Size (mm) width x height x depth	123 x 89 x 48 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing V2
Fastening	DIN rail 46277 (EN 50022)
Weight (kg)	0,272

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	5...95 %
Working temperature	-20...+50 °C

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	... / 1A
Phase current measuring range	2...120% de In

Voltage measurement circuit

Installation category	CAT III 300 V
Voltage measuring range	5 ... 120 % Un
Nominal voltage	285V Ph-N, 480V Ph-Ph

Communication Network

Technology / Interface	Ethernet 10/100 Mbps
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Control Unit

Clock	RTC
CPU	ARM Cortex A7 800 MHz
PSRAM Memory	512 MB



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SPI Flash Memory

8 GB eMMC

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Electrical safety, Contamination level/class	Double-insulated electric shock protection class II (IEC 61010)
Standards	UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4

Electrical safety

Insulation	3 kVAC
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Measurement accuracy

Reactive energy measurement (kvarh)	Class 2
Active energy measurement (kWh)	Class 1

Serial communication

Technology / Type	RS-232 (full-duplex) / RS-485 (half-duplex) Galvanic isolation
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Wireless communication

Band	802.11 b/g/n (2.4 GHz.)
Technology / Type	Wi-Fi

eManager Energy

IoT programmable controllers with integrated energy metering

CODE	TYPE	CPU	Memory	Communications	Power supply
eManager Energy					
D302200080000	eManager Pro 4G Energy X2	ARM Cortex A7 800 MHz	512 MB 8 GB eMMC	RS232/485 Ethernet Wi-Fi 4G EMEA	85 ... 264 V~