

eManager Pro Energy

eManager Pro Energy, ARM controller

Code: D302000070000

> Memory: 512 MB | 8 GB eMMC
> Módules: 7
> Communications: RS232/485 | Ethernet | Wi-Fi
> System: 1 xThree-phase / 3 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 mesure 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

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)	0,246

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

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

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

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					
D302000070000	eManager Pro Energy	ARM Cortex A7 800 MHz	512 MB | 8 GB eMMC	RS232/485 | Ethernet | Wi-Fi	85 ... 264 V~
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~