



## eManager Pro 4G ActIO 22172 Energy

eManager Pro 4G ActIO 22172 Energy, ARM controller

Code: D303200026700


- > Memory: 512 MB | 8 GB eMMC
- > Analogue Inputs: 7
- > Módulos: 9
- > Communications: RS232/485 | Ethernet | Wi-Fi | 4G EMEA
- > N° relays: 2 (6 A)
- > Digital inputs: 2
- > 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
Sensor	PT100 & PT1000

#### Mechanical characteristics

Size (mm) width x height x depth	158 x 89 x 48 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing V22
Fastening	DIN rail 46277 (EN 50022)

#### Environmental characteristics

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

#### Communication Network

Technology / Type	Ethernet 10/100 Mbps
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#### Control Unit

Clock	RTC
CPU	ARM Cortex A7 800 MHz
PSRAM Memory	512 MB
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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## eManager Pro 4G ActIO 22172 Energy

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### Analogue inputs

Quantity	7
Nominal range	0...10 V / 0...20 mA o 4...20 mA
Nominal input range	0...10 V / 0...20 mA o 4...20 mA

### Digital inputs

Quantity	2
Type	0...24 Vcc

### Digital relay outputs

Quantity	2
Type	NA
Maximum current	6 A
Maximum open contact voltage	250 Vac

### Radio communication

Band	LTE-FDD B1/B3/B7/B8/B20/B28A, WCDMA B1/B8 & GSM/EDGE B3/B8
Technology / Type	4G EMEA

### 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 ActIO Energy

IoT programmable controllers with integrated energy metering and inputs and outputs

CODE	TYPE	CPU	Memory	Analogue Inputs	Digital inputs	N° relays	Communications	Power supply
eManager ActIO Energy								
D303200026700	eManager Pro 4G ActIO 22172 Energy	ARM Cortex A7 800 MHz	512 MB   8 GB eMMC	7	2	2 (6 A)	RS232/485   Ethernet   Wi-Fi   4G EMEA	85 ... 264 V~