



LM4I-40-M

LM4I-40-M, Impulse centraliser

Code: M31563.

- > Protocol: Modbus/RTU
- > Módulos: 4
- > Communications: RS-485
- > N° relays: 4
- > Digital inputs: 4

Description

The LM4 is an digital and/or analogue signals centralizer (depending type).

The unit includes an RS- 485 communications bus with a Modbus/ RTU protocol, which allows real time control by communications. The unit is compatible with PowerStudio and PowerStudio SCADA control software.

Other features of LM4A-210-M:

- Telemanagement of the 2 digital outputs
- Supervision of the 2 digital inputs
- Monitoring of the 4 analogue inputs

Application

Reading of any pulse-emitting meter (up to 4 devices). These parameters are useful for generating bills or for specifying a price/unit cost

- The outputs available on the device can control contacts (gas, water, steam, etc.), and sound and/or light devices to provide protection or alarms by using an internal relay.
- Detection of logical states for electrical switching or alarms that can control relays through software or modbus communications.



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Impulse centralizing unit

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Specifications

AC power supply

Installation category	CAT III 300 / 520 Vac
Consumption	4,6 VA ac / 2,5 W
Frequency	47 ... 63 Hz
Nominal voltage	85...265 Vca / 120 ... 374 Vcc (+/- 15%)

Mechanical characteristics

Size (mm) width x height x depth	71 x 93 x 58 (mm)
Envelope	Plastic UL 94 - V0 self-extinguishing
Cable gauge at power supply terminals	2,5 mm ² (min.)
Fastening	DIN rail
Weight (kg)	0,141

Environmental characteristics

Protection class	IP 31 (Front), IP 20 (unmounted)
Relative humidity (without condensation)	5...95%
Operating temperature	-10 ... +50 °C

Standards

Certifications	CE, UL, VDE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V / 520V, IEC 61010
Standards	IEC 60664, VDE 0110, UL 94, EN-61010-1, EN 55011, EN 61000-4-3, EN 61000-4-11, EN 61000-6-4, EN 61000-4-2, EN 61000-6-2, EN 61000-6-1, EN 61000-6-3, EN 61000-4-5

Electrical characteristics

Insulation voltage, circuit	2,5 kV, 50 Hz durante 1 min
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Communications

Data bits	8
Stop bits (ModBus)	1
Parity	No parity
Protocol	Modbus RTU
Speed	9600/19200
Connection mechanism	Ethernet 10BaseT / 100BaseTX autodetectable

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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Digital inputs

Quantity

4



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Type	Free of optoisolated voltage
Maximum short-circuit current	50 mA
Digital relay outputs	
Nominal current	5 A~ / 250 V~ (with resistive load)
Type	Relay
Nominal voltage	250 V ~
Electrical life	3×10^4 (250 Vca / 5 A)



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LM4
Impulse and contact centralisers

CODE	TYPE
M31563.	LM4I-40-M
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(*) Digital inputs (logic 0 / 1) or energy impulses

Dimensions

