LM-A42-D11

LM-A42-D11, Analogue and digital input and output module

Code: D90420.

> Protocol: Modbus RTU | Modbus TCP/IP

> Analogue Inputs: 4

> Módules: 3

> Communications: RS-485 | Wi-Fi

> Output relay: 1

> Digital inputs: 1

> Analog output: 2

Description

Input and output signal management module, designed for DIN rail mounting (3 modules) and AC power supply. It features 4 analogue inputs and 2 analogue outputs (0...20 mA / 4...20 mA / 0...10 V), 1 potential-free digital input and 1 relay output. Serial communication for Modbus RTU via RS-485 and Modbus TCP/IP via Wi-Fi. Advanced design with integrated automation functions, allowing the device to operate autonomously, without relying on a central control system. These functions are:

○ Alarm management to detect in-range or out-of-range values and activate the relay output.

○ Automatic unit conversion, directly displaying the measurement in the corresponding physical unit.

○ "Hour counter" function, records how long the digital input remains active, key for usage monitoring and obtaining the CAE.

○ Integrated web server with and intuitive and user-friendly interface for advanced Wi-Fi settings.

○ Compatible with the MyConfig app, for fast and easy set-up.

○ Compatible with PowerStudio, for advanced configuration and integration into SCADA systems.

Application

Thanks to its compact design, advanced connectivity and integrated automation functions, the **LM-A42-D11** is suitable for applications in any environment, from industrial facilities to service infrastructures, such as:

○ Industrial process control.

○ HVAC system monitoring.

○ Metering electrical or hydraulic consumption.

○ Public lighting and HVAC management.

○ Energy monitoring in buildings, hotels or retail.

○ Access control and supply management in marinas, campsites or multi-user spaces.

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Specifications

AC power supply

Installation category	CAT III 300
Consumption	4 ...7 VA
Frequency	50 ... 60 Hz
Nominal voltage	100 ... 264 V~

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 118 x 70 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail
Weight (kg)	0,19

Environmental characteristics

Protection class	IP 40 (Front), IP 30 (unmounted)
Relative humidity (without condensation)	5...95%
Storage temperature	-20 ... +70 °C
Operating temperature	-10 ... +50 °C

Standards

Certifications	CE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V / 520V, IEC 61010
Standards	UNE-EN 55022, UNE-EN 55016-2-1, UNE-EN 61000-4-2, UNE-EN 61000-4-4, UNE-EN 61000-4-5, UNE-EN 61000-4-6, UNE-EN 61000-4-8, UNE-EN 61000-4-11, UNE-EN 61000-4-20, UNE-EN 60068-2-1, UNE-EN 60068-2-2, UNE-EN 60068-2-78, UNE-EN 61010-1, ETSI EN 301- 489-1 v2.2.3, ETSI EN 301-489-17 v3.3.1

Electrical safety

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

User interface

LED	6 LED

Analogue inputs

Quantity	4
Nominal range	0 ... 10 V, 2 ... 10 V|0 ... 20 mA, 4 ... 20 mA
Measurement type	Tension|Current

Digital inputs

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Quantity	1
Type	Free of potential

Analogue outputs

Quantity	2
Current mode, nominal range	0-20 mA, 4-20 mA
Voltage mode: nominal output range	0-10 V, 2-10 V
DAC resolution	4096 points

Digital relay outputs

Quantity	1
Nominal current	5 A~ / 250 V~ (with resistive load)
Type	Relay
Nominal voltage	250 V ~ / 30 V DC
Electrical life	1×10^5 (250 Vca / 5 A)

Wireless communication

Band	2,4 GHz.|IEEE 802.11 b: 20 dBm / IEEE 802.11 n: 14 dBm
Technology / Interface	Wi-Fi

LM-A-D
Analog and digital inputs and outputs modules

CODE	TYPE	Output relay	Digital inputs	Analog output	Analogue Inputs	Communications	Protocol
D90420.	LM-A42-D11	1	1	2 (0/4 … 20 mA)	(0/2 … 10 V)	4(0/4 … 20 mA)	(0/2 … 10 V)	RS-485	Wi-Fi	Modbus RTU	Modbus TCP/IP

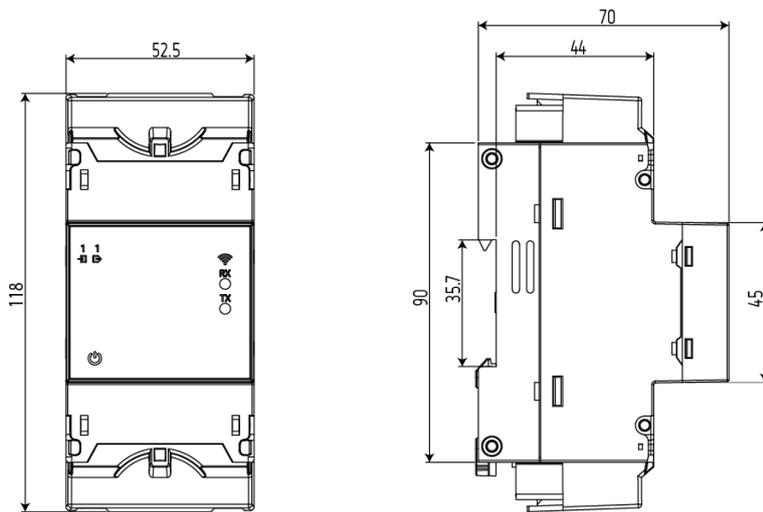(*) Digital inputs (logic 0 / 1) or energy impulses

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Dimensions

Connections

Entradas analógicas
Analog inputs

Alimentación Auxiliar
Power Supply

A1 ~   A2 ~

Sensor 0 ... 10V
0/4 ... 20mA

15kΩ (0 ... 10V)
150Ω (0/4 ... 20 mA)

Relé 1
Relay 1

16   17

C

Carga externa
External load
5kΩ (0 ... 10V)
300Ω (0/4 ... 20 mA)

Entrada digital   Salidas analógicas
Digital input   Analog outputs