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.

LM-A42-D11

Analogue and digital input and output module

Code: D90420.

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
Working 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

LM-A42-D11

Analogue and digital input and output module

Code: D90420.

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 x 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 / Type	Wi-Fi

LM-A-D

Modules for analog and digital inputs and outputs

CODE	TYPE	Output relay	Digital inputs	Analog output	Analogue Inputs	Communications	Protocol
D90420.	LM-A42-D11	1	1	2	4	RS-485 | Wi-Fi	Modbus RTU | Modbus TCP/IP

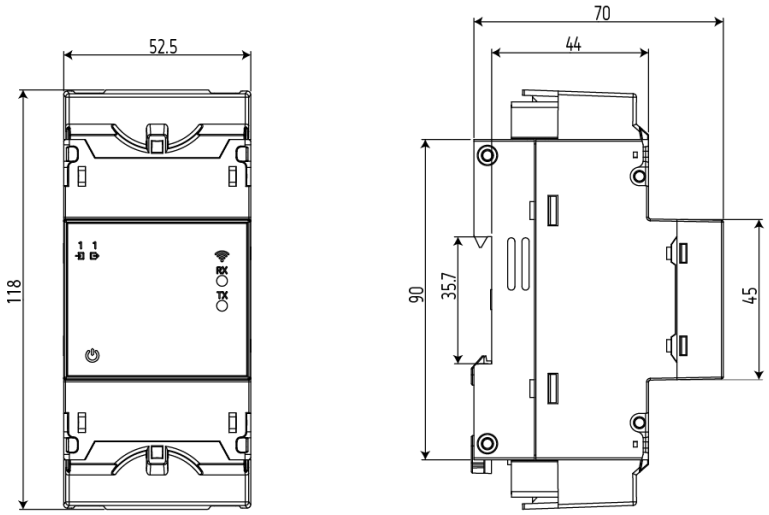
(*) Digital inputs (logic 0 / 1) or energy impulses

LM-A42-D11

Analogue and digital input and output module

Code: D90420.

Dimensions



Connections