



## LM-D44

### LM-D44, Digital input and output module

Code: D90120.

- > Protocol: Modbus RTU | Modbus TCP/IP
- > Communications: RS-485 | Wi-Fi
- > Output relay: 4
- > Digital inputs: 4

### Description

Input and output signal management module, designed for DIN rail mounting (3 modules) and AC power supply. It has 4 potential-free digital inputs and 4 relay outputs. 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 an 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-D44** 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	5 ... 8 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
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

### User interface

LED	6 LED
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### Digital inputs

Quantity	4
Type	Optocoupled

### Digital relay outputs

Quantity	4
Nominal current	5 A~ / 250 V~ (with resistive load)
Type	Optocoupled
Nominal voltage	250 V ~ / 30 V DC
Electrical life	1 x 10 <sup>5</sup> (250 Vca / 5 A)



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## Wireless communication

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

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

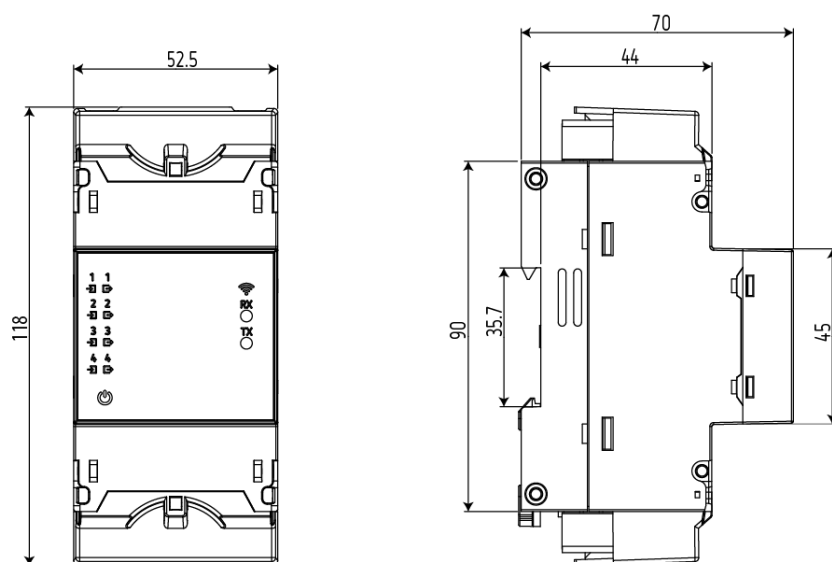


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### Dimensions



### Connections

