# 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 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-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 |

### 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 $10^5$ (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 |

**LM-D**
Digital Input and Output Modules

| CODE | TYPE | Output relay | Digital inputs | Analog output | Analogue Inputs | Communications | Protocol |
|---|---|---|---|---|---|---|---|
| D90120. | LM-D44 | 4 | 4 | - | - | RS-485 \| Wi-Fi | Modbus RTU \| Modbus TCP/IP |

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



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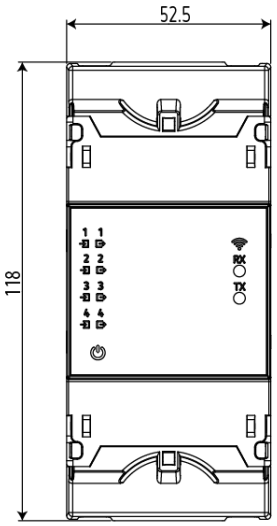
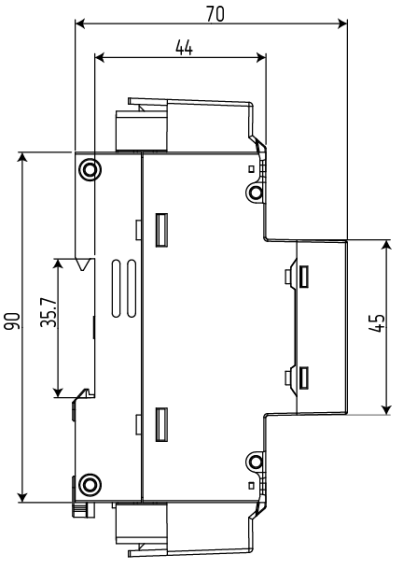
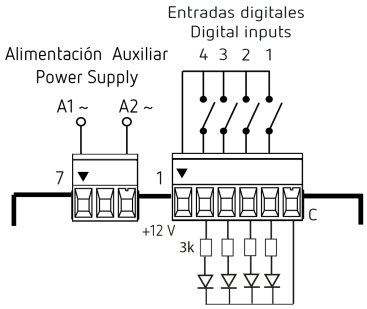
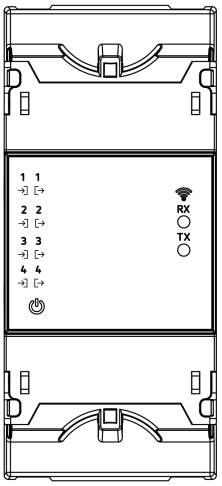
## Dimensions

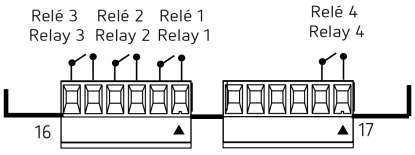



## Connections



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