



MDB-M/6

Power over Modbus distribution box

MDB-M/6 is a compact PoM distribution box. It is compatible with sensors, sensor controllers, HVAC controllers and fan speed controllers with Modbus RTU on board and suitable for long-distance power and data distribution between connected units.

Key features

- RJ45 connectors for Power over Modbus (both Modbus RTU and 24 VDC are distributed via the RJ45 connector)
- No software or configuration required
- Easy to connect
- Surface mountable
- Power supply green LED indication on RJ45 sockets
- Reliable connection for permanent installations

Technical specifications

Supply voltage	24 VDC (Power over Modbus)	
Total I/O current rating	I _{max} 1,5 A	
Protection class	IP65	
Ambient conditions	Temperature	-30—70 °C
	Relative humidity	20—90 % rH, non-condensing
Enclosure	ABS plastic, colour: grey (RAL7035)	
Maximum total cabling length	100 m	

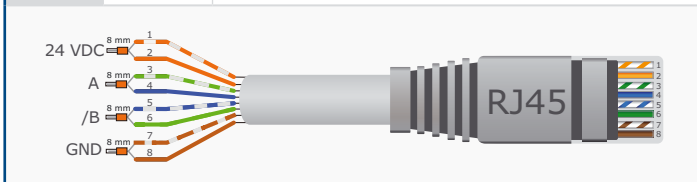


Area of use

Modbus RTU compatible units

Wiring and connections

J1—J6	RJ45 sockets for PoM connections	
RJ45 cable		
Pin 1	24 VDC	Supply voltage
Pin 2	24 VDC	Supply voltage
Pin 3	A	Modbus RTU communication, signal A
Pin 4	A	Modbus RTU communication, signal A
Pin 5	/B	Modbus RTU communication, signal /B
Pin 6	/B	Modbus RTU communication, signal /B
Pin 7	GND	Ground, supply voltage
Pin 8	GND	Ground, supply voltage



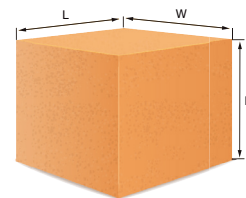
Note: The maximum power supply per channel must not exceed 1,5 A.

Standards

- Low Voltage Directive 2014/35/EC
- EN 60664-1:2007
- EMC Directive 2014/30/EC
- EN 55022:2010
- EN 55024:2010
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- WEEE Directive 2012/19/EC
- RoHS Directive 2011/65/EC

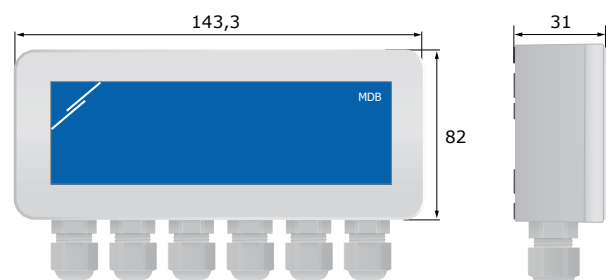


Packaging



Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
Unit (1 pc.)	154	114	44	133 g	153 g
Box (45 pcs.)	590	380	280	5,985 kg	7,745 kg

Fixing and dimensions

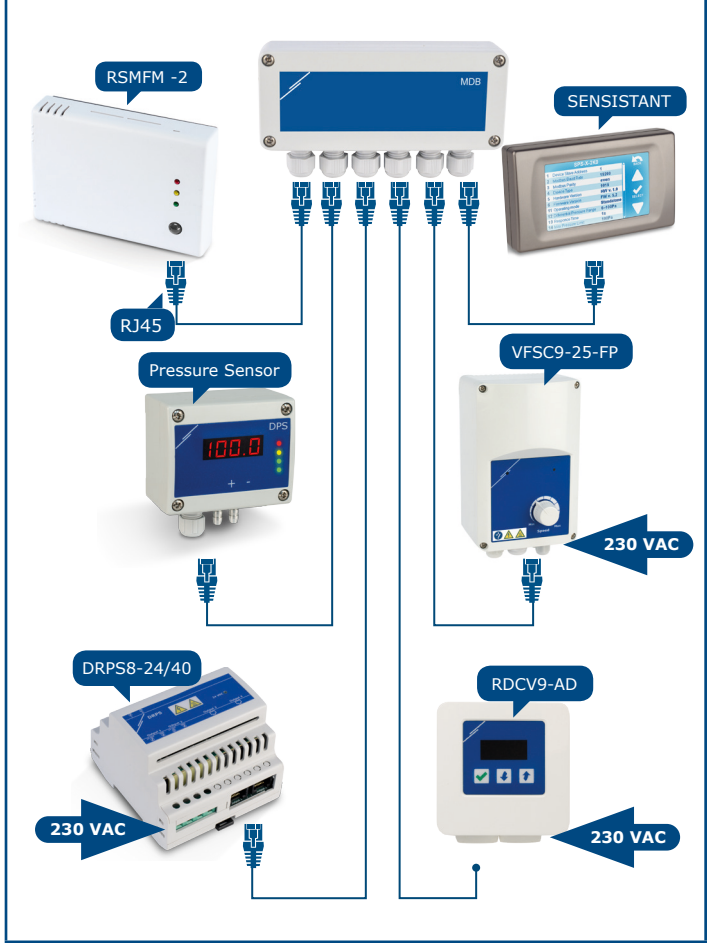


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Application example



Settings and indications

1 - RJ45 socket		Plug in the communication and power cable
2 - Green LED on the left of each socket		Voltage detected