

DMDBM22

DIN rail mounted Power over Modbus distribution box

DMDBM22 is a DIN rail Modbus distribution box with 10 RJ45 and 12 RJ12 sockets. It transmits both data and electrical power (Power over Modbus). 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. Both power supply and Modbus RTU communication are distributed to the connected devices via a single cable.

Key features

- 10 RJ45 connectors for Power over Modbus (both Modbus RTU and 24 VDC are distributed via the RJ45 connector)
- 12 RJ12 connectors for Power over Modbus (both Modbus RTU and 3,3 VDC are distributed via the RJ12 connector)
- No software or configuration required
- Easy to connect
- DIN rail mountable
- Power supply green LED indication
- Reliable connection for permanent installations

Article codes

Article code	Supply voltage	Maximum distributed current (3,3 VDC and 24 VDC combined)
DMDBM22	24 VDC (PoM)	1,5 A

Technical specifications

Power over Modbus voltage	RJ45 connectors	24 VDC
	RJ12 connectors	3,3 VDC
Maximum load	36 W @ 24 VDC / 1 W @3,3 VDC	
Imax	1,5 A (3,3 VDC and 24 VDC combined)	
Protection class	IP20	
Ambient conditions	Temperature m	-30—85 °C
	Relative humidity	5—85 % rH, non-condensing
Enclosure	ABS plastic, colour: grey (RAL7035)	

Area of use

Modbus distribution for Modbus RTU compatible articles (RJ45 – for 24 VDC devices and / or RJ12 – for 3,3 VDC units)

Standards

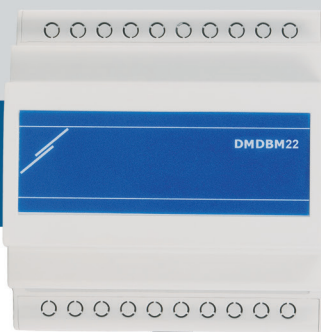
- WEEE Directive 2012/19/EC
- RoHS Directive 2011/65/EC



Wiring and connections

RJ45 cable	
Pin 1	Supply voltage
Pin 2	Supply voltage
Pin 3	Modbus RTU communication, signal A
Pin 4	Modbus RTU communication, signal A
Pin 5	Modbus RTU communication, signal /B
Pin 6	Modbus RTU communication, signal /B
Pin 7	Ground, supply voltage
Pin 8	Ground, supply voltage
RJ12 sockets	
Pin 1	Supply voltage
Pin 2	Supply voltage
Pin 3	Modbus RTU communication, signal A
Pin 4	Modbus RTU communication, signal /B
Pin 5	Ground, supply voltage
Pin 6	Ground, supply voltage
RJ45 sockets	RJ12 sockets

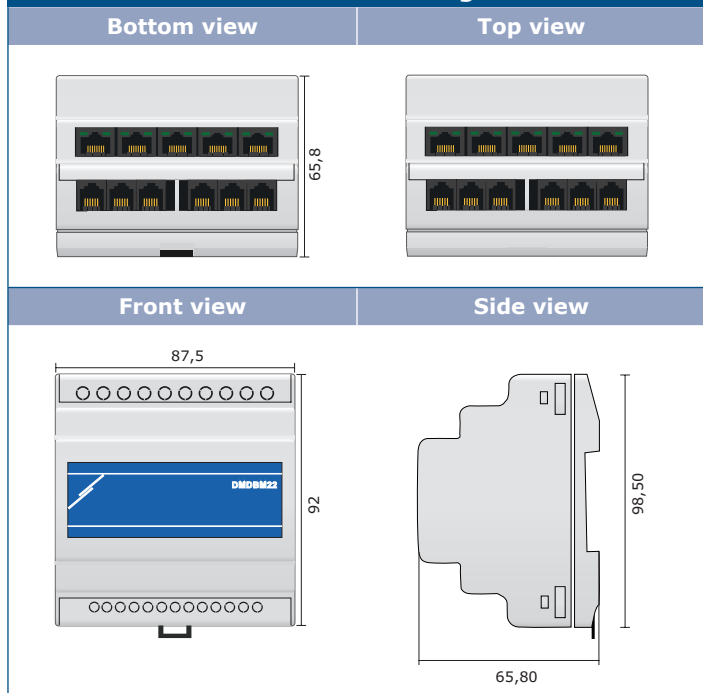
Attention: Make sure not to insert an RJ12 connector in an RJ45 socket! This will damage the device that requires 3,3 VDC power supply!



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Fixing and dimensions

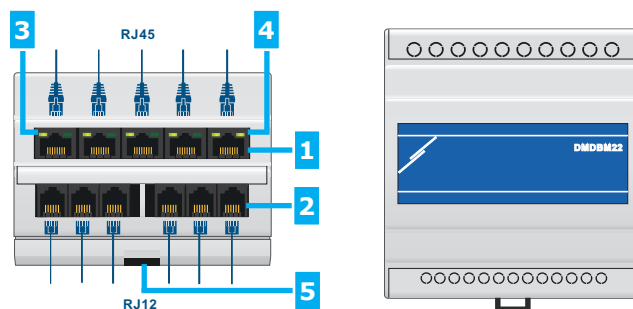


Global trade item numbers (GTIN)

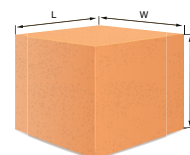
Packaging	DMDBM22
Unit	05401003001073

Settings and indications

1 - RJ45 socket		Modbus RTU communication and 24 VDC power distribution
2 - RJ12 socket		Modbus RTU communication and 3,3 VDC power supply
3 - Green LED on the left of each socket	On	In normal operation, the left LEDs on all RJ45 sockets should be activated, indicating the presence of 24 VDC via the RJ45 sockets
4 - Green LED on the right of the rightmost socket	On	If there is presence of 3,3 VDC via the RJ12 sockets, the right LED on last right RJ45 socket from bottom and top side should be activated
5 - Locking clip		At the bottom of the device; used to lock it to the DIN rail



Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
DMDBM22	Unit (1 pc.)	95	90	81	0,10 kg	0,14 kg
	Box (144 pcs.)	580	370	280	5,17 kg	7,94 kg



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Application example

