

DPOM8-24/20

DIN rail PoM power supply & repeater



Description

DPOM8-24/20 is a Power over Modbus supply module designed for DIN rail mounting. It features a 24 VDC output and an integrated and fully isolated Modbus RTU communication line repeater.

DPOM8-24/20 provides some of the following benefits:

- Power over Modbus (PoM)
 - Through PoM different types of devices such as sensors, controllers, power supply modules, etc. can be interconnected via a single UTP cable which transmits both 24 Volt power supply and Modbus data communication.
- Power Supply Module and Modbus Repeater in One Device
 - DPOM8-24/20 provides a 24 VDC power supply and amplifies the Modbus signal allowing connection of up to 32 devices across a distance of up to 1200 m without signal interruptions.
- Easy Installation
 - The device is DIN rail mountable making it suitable for installation in electrical cabinets.
- Multiple Connection Options
 - Equipped with both terminal blocks and RJ45 sockets, DPOM8-24/20 allows flexibility in device connection.

With its compact design and broad functionality, DPOM8-24/20 is a reliable solution for HVAC installations.



Key Features

- Power over Modbus module with 24 VDC / 20 W integrated power supply
- Galvanic isolated half-duplex mode repeater for Modbus RTU communication
- Input and output connections with terminal blocks or an RJ45 connector
- Overload hiccup mode protection with red LED indications
- Asynchronous serial data transmission
- Input and output transmission with green LED indication
- Automatic baud-rate fitting up to 115,2 Kbps
- Distance up to 1.200 m
- Up to 32 modules can be connected to the DPOM8
- DIN rail mountable

Technical Specifications

Output	24 VDC / 20 W	
Supply voltage	85—264 VAC / 50—60 Hz	
Protection standards	IP20	
Operating conditions	Temperature	-20—40 °C
	Relative humidity	5—85 % rH, non-condensing
Enclosure	Material	ABS (Acrylonitrile Butadiene Styrene) plastic
	Colour	Grey, RAL7035

Wiring and Connections

L	Supply voltage, Line
N	Supply voltage, Neutral
24 VDC	Power supply 24 VDC / 20 W
GND	Ground reference for power supply
A	Modbus RTU (RS485), signal A
/B	Modbus RTU (RS485), signal /B
Input	Modbus RTU communication RJ45 socket. (No integrated 24 VDC on this port)
Output	Power over Modbus communication RJ45 socket (Modbus RTU + 24 VDC)

ATTENTION!

- When connecting longer lines, use the lowest possible baud rate.
- The input terminal blocks duplicate the input RJ45 socket.
- The output terminal blocks duplicate the output RJ45 socket.

Standards

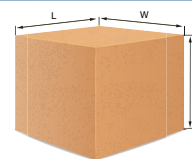
- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- Commission Delegated Directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances



Global Trade Item Numbers 14 (GTIN 14)

Packaging	DPOM8-24-20
Unit	5401003001479
Box	5401003500354

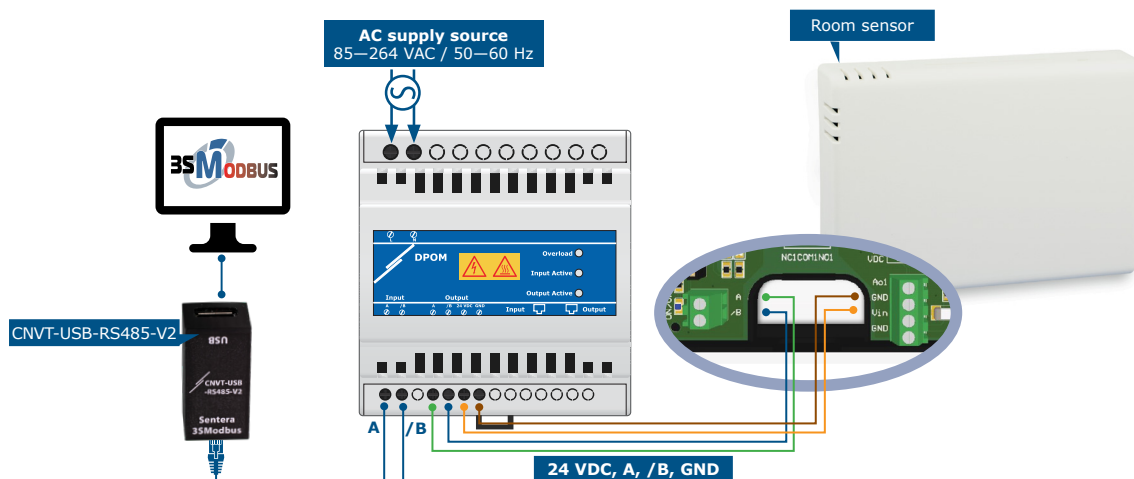
Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
DPOM8-24-20	Unit (1 pc.)	95	90	85	0,175 kg	0,306 kg
	Box (36 pcs.)	590	380	280	6,30 kg	11,92 kg

Application Example

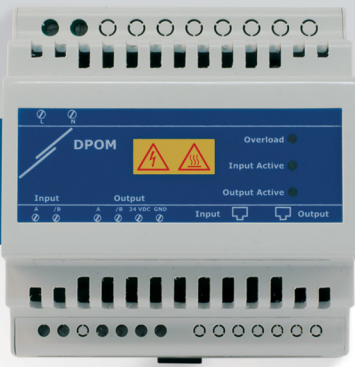
Example 2: Connections via terminal block



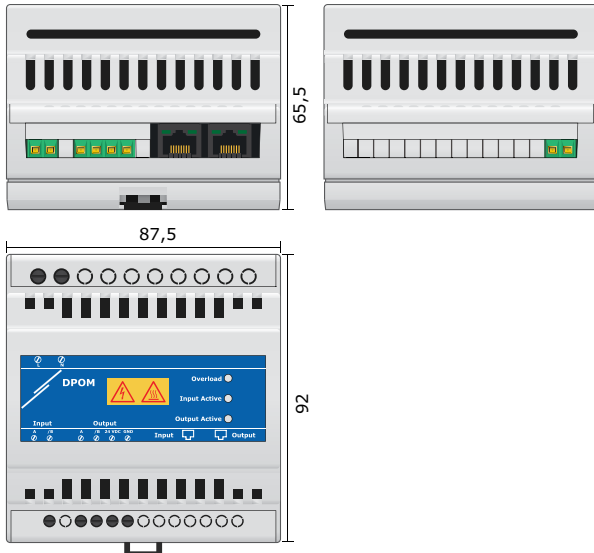
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Fixing and dimensions



DIN-rail mounting

