

DRPS8-24-40

DIN rail power supply module



DRPS8-24/40 are 24 VDC / 40 W DIN rail mounted power supply modules with two RJ45 connectors and terminal blocks for output voltage connection. They are Power over Modbus compatible and have a wide supply voltage range.

Key features

- Connection via terminal blocks and / or RJ45 (Power over Modbus)
- Protections: overvoltage and overload (hiccup mode)
- Universal input range
- Output voltage green LED indication

Technical specifications

| | | |
|-----------------------|-------------------------------------|----------------------------|
| Input voltage | 85—264 VAC / 50—60 Hz | |
| Output voltage | 24 VDC | |
| Output current rating | I _{max} 1,67 A | |
| Ambient conditions | Temperature | -30—40 °C |
| | Relative humidity | 20—90 % rH, non-condensing |
| Enclosure | ABS plastic, colour: grey (RAL7035) | |
| Protection standard | IP30 | |

Wiring and connections

| | | |
|----------|--|--------------------------------------|
| L | Supply voltage, line: 85—264 VAC / 50—60 Hz | |
| N | Supply voltage, neutral: 85—264 VAC / 50—60 Hz | |
| Output 1 | 24 VDC | Output voltage connection |
| | GND | Ground for output voltage connection |
| Output 2 | 24 VDC | Output voltage connection |
| | GND | Ground for output voltage connection |
| Output 3 | RJ45 sockets for output voltage connection | |
| Output 4 | RJ45 sockets for output voltage connection | |

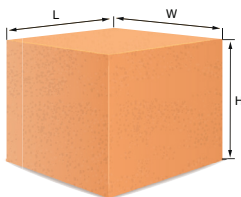
RJ45 socket

| | | |
|-------|--------|-------------------------------------|
| Pin 1 | 24 VDC | Supply voltage |
| Pin 2 | | |
| Pin 3 | A | Modbus RTU communication, signal A |
| Pin 4 | | |
| Pin 5 | /B | Modbus RTU communication, signal /B |
| Pin 6 | | |
| Pin 7 | GND | Ground, supply voltage |
| Pin 8 | | |



Attention: The terminal block for the output voltage connection (+24 V, GND) duplicates the RJ45 connector (parallel circuit). To calculate the total load, add both charges.

Packaging



| Article | Packaging | Length [mm] | Width [mm] | Height [mm] | Net weight | Gross weight |
|-------------|---------------|-------------|------------|-------------|------------|--------------|
| DRPS8-24/20 | Unit (1 pc.) | 99 | 88 | 66 | 0,23 kg | 0,28 kg |
| | Box (50 pcs.) | 590 | 380 | 280 | 11,50 kg | 14,57kg |



Area of use

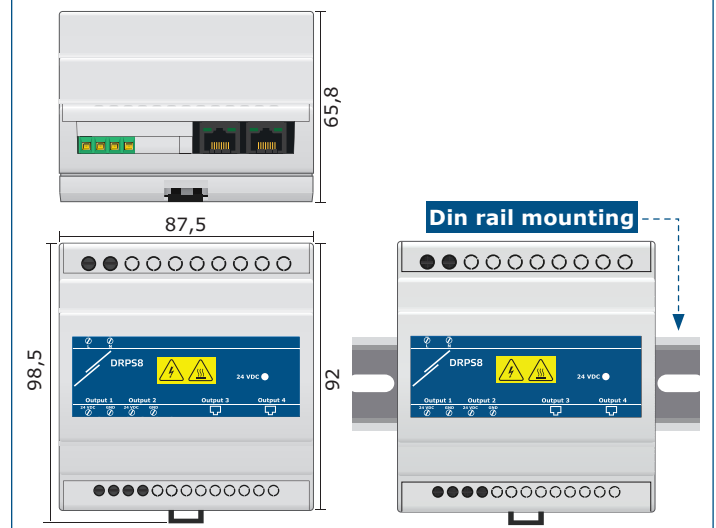
- Supply for 24 VDC articles such as sensors, controllers and user interfaces

Standards

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



Fixing and dimensions



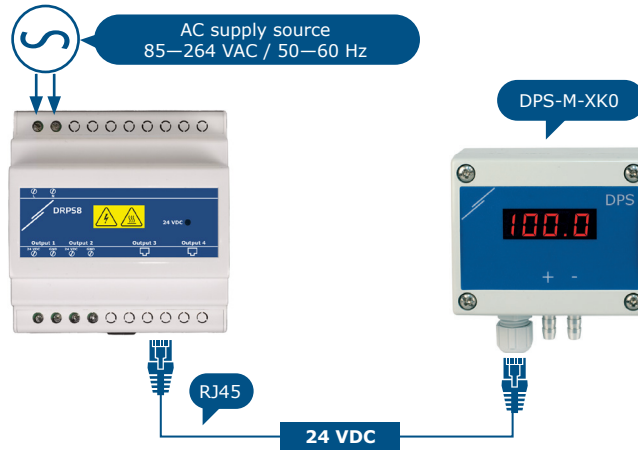
DRPS8-24-40

DIN rail power supply module

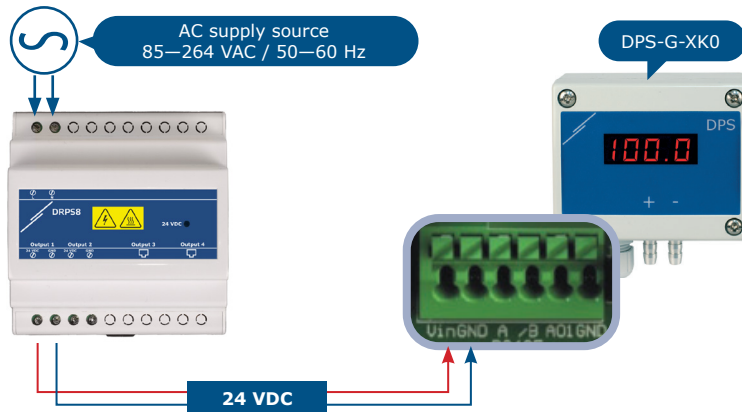


Application examples

Example 1: Power over Modbus supply connection



Example 2: Terminal block supply connection



Example 3: Combination of terminal blocks and PoM

