

# PDM-8-MB

## Power over Modbus modules

PDM-8-MB are power over Modbus modules with galvanic isolated RS485 communication and two galvanic isolated 24 VDC power supply lines (channels). The PDM-8 is used to interconnect and supply Sentera controllers and sensors which have integrated Modbus RTU communication.



### Key features

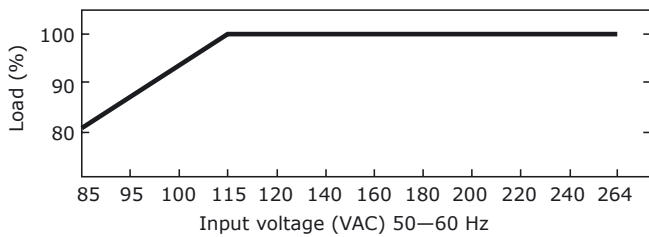
- Galvanic isolated half-duplex mode repeater for Modbus RTU communication
- Output connections with RJ45 (Power over Modbus connection)
- Protections: short circuit, overload and overvoltage
- Power OK green LED
- Asynchronous serial data transmission
- Automatic baud-rate fitting up to 115,2 Kbps
- Distance up to 1.200 m
- Up to 32 modules can be connected, depending on distance and power consumption

### Technical specifications

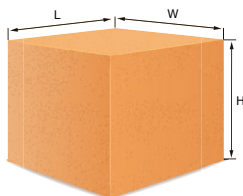
|                      |  |                           |
|----------------------|--|---------------------------|
| Outputs              | Integrated supply: 2 x 24 VDC / 20 W (24 VDC / 900 mA) |                           |
| Power consumption    | 85–264 VAC / 50–60 Hz                                  |                           |
| Protection standards | IP30   |                           |
| Ambient conditions   | Temperature  | -20–40 °C                 |
|                      | Relative humidity                                      | 5–85 % rH, non-condensing |

### Operational diagram(s)

#### Output derating VS Input Voltage



### Packaging



| Packaging    | Length [mm] | Width [mm] | Height [mm] | Net weight | Gross weight |
|--------------|-------------|------------|-------------|------------|--------------|
| Unit (1 pc.) | 105         | 90         | 125         | 215 g      | 475 g        |



### Wiring and connections

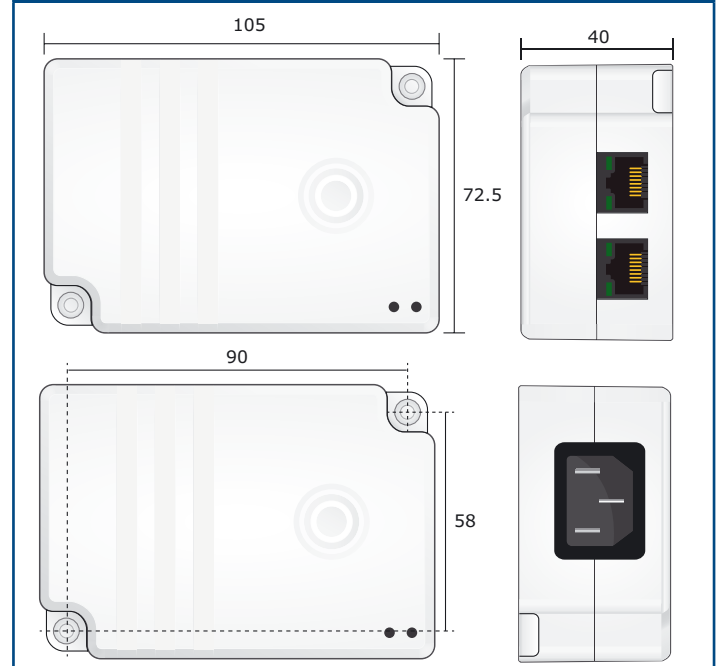
|             |                                     |
|-------------|-------------------------------------|
| 24 VDC, GND | Output voltage, 24 VDC up to 900 mA |
| A, /B       | Modbus communication                |

### Standards

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC
- WEEE Directive 2012/19/EC
- RoHs Directive 2011/65/EC



### Fixing and dimensions



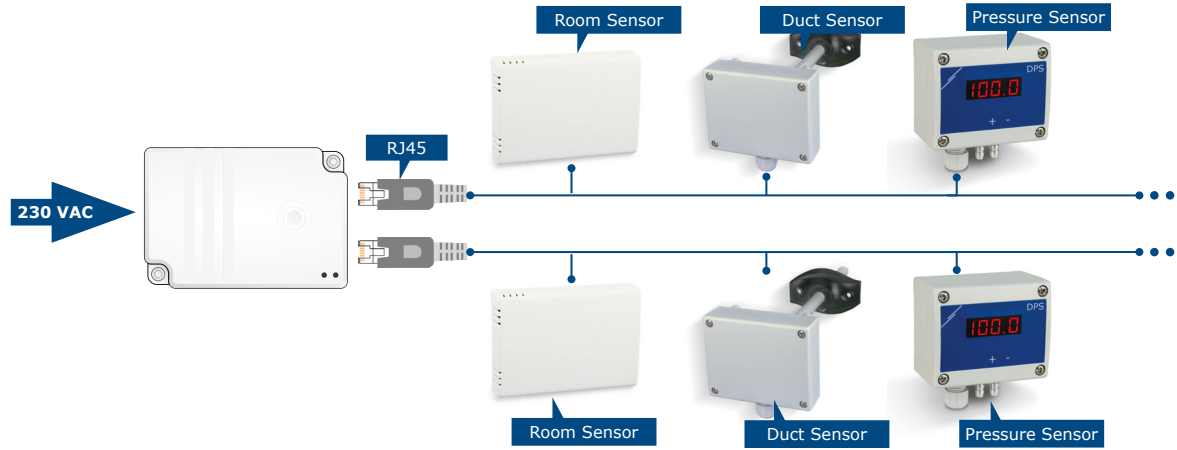
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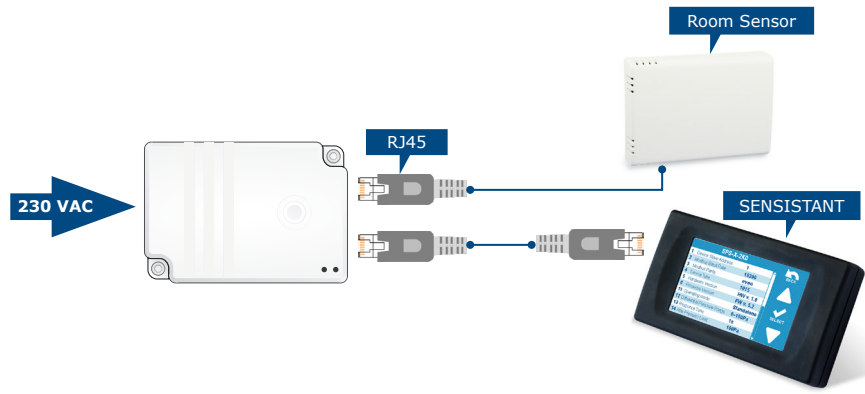


## Application examples

### Example 1: Power over Modbus



### Example 2: Modbus monitoring and configuration via Sensistant



## Power over Modbus

