



# 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



### Wiring and connections

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

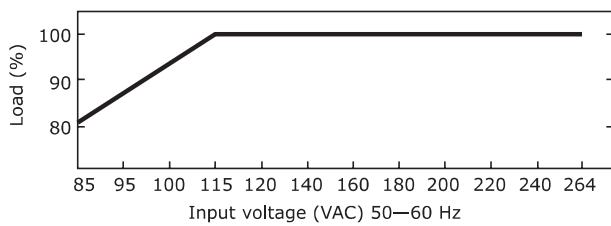
### Standards

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

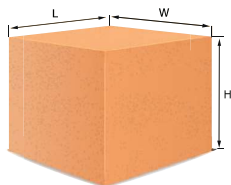


### Operational diagram(s)

#### Output derating VS Input Voltage

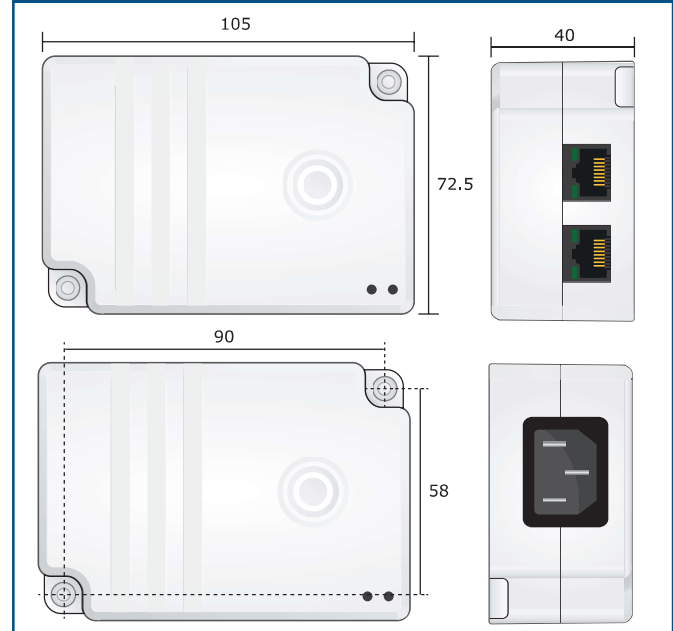


### Packaging



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

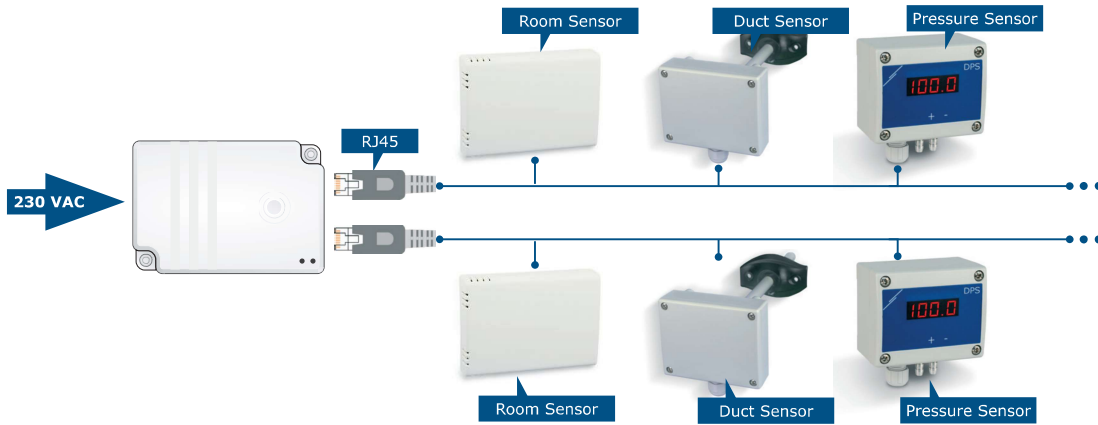
### Fixing and dimensions



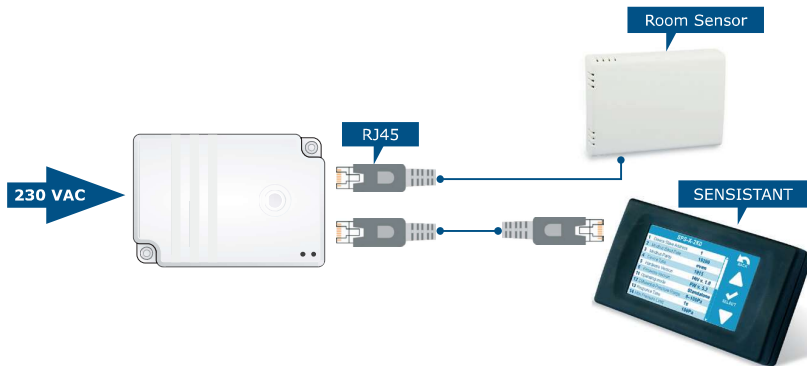


### Application examples

#### Example 1: Power over Modbus



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



#### Power over Modbus

