

4. Differential-pressure sensor, industry (DPI)

General data



TM04 4738 0509

Fig. 41 DPI sensor

Technical overview

The DPI differential-pressure sensor from Grundfos Direct Sensors™ is designed for industrial purposes. The DPI sensor is fully compatible with aggressive liquids. The sensor is based on MEMS sensing technology in combination with the corrosion-resistant Silicoat® coating technology on the sensor chip. This makes the DPI sensor very robust and ideal for pump integration and monitoring in harsh environments.

Applications

- Pump control
- HVAC systems
- temperature control and chiller systems
- renewable energies such as heat pumps, solar thermals, fresh water and micro-CHP systems
- monitoring and control systems
- water treatment plants
- water utility and distribution systems
- HPC and IT cooling systems.

Features and benefits

- MEMS technology
- No wear and tear
- plug and play for quick setup
- smart system solution with Grundfos pump controls
- compact and robust design
- compatible with aggressive liquids
- suitable for a wide range of applications.

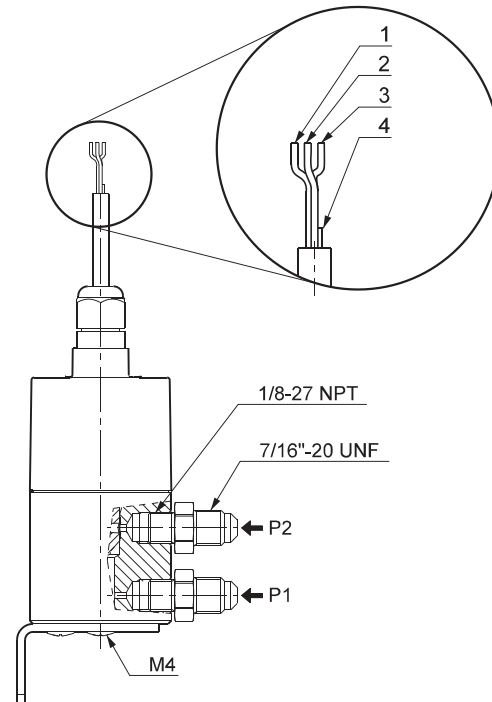
Pressure range

Pressure range	
[bar]	[psi]
0 - 0.6	0 - 8.7
0 - 1.0	0 - 14.5
0 - 1.2	0 - 17.4
0 - 1.6	0 - 23.2
0 - 2.5	0 - 36.3
0 - 4.0	0 - 58.0
0 - 6.0	0 - 87.0
0 - 10.0	0 - 145.0

Certificates



Electrical connections



TM03 2225 3905

Fig. 42 Electrical connections

Pin	Description	Colour
1	12-30 V supply voltage	Brown
2	GND (earth conductor)	Yellow
3	Signal conductor	Green
4	Test conductor The conductor can be cut off during mounting. The conductor must not be connected to the power supply.	White