

Pressure sensor with temperature measurement

Precise pressure measurement in a compact stainless steel housing

- Continuous transmission of process values and diagnostic functions via IO-Link, 2 switching outputs
- High switch point accuracy < ± 0.5 % and repeatability < ± 0.05 %
- Integrated temperature measurement in the PV8 series removes the need for an additional measuring point



IP69

IO-Link

ifm – close to you!

Measuring range [bar]	Output function 2x DC PNP/NPN, IO-Link			With integrated temperature measurement, output function 2x DC PNP/NPN, IO-Link	
	G¼	¼ NPT	R¼	G¼	¼ NPT
0…600	**PV7060**	**PV7660**	–	**PV8060**	**PV8660**
0…400	**PV7000**	**PV7600**	**PV7700**	**PV8000**	**PV8600**
0…250	**PV7001**	**PV7601**	**PV7701**	**PV8001**	**PV8601**
0…100	**PV7002**	**PV7602**	**PV7702**	**PV8002**	**PV8602**
0…60	**PV7023**	**PV7623**	–	**PV8023**	**PV8623**
-1…25	**PV7003**	**PV7603**	**PV7703**	**PV8003**	**PV8603**
-1…10	**PV7004**	**PV7604**	**PV7704**	**PV8004**	**PV8604**

Miniaturisation for industrial applications

The PV pressure sensor features a thin-film measuring cell directly welded with the process connection. This technology delivers high accuracy in a very compact housing with a width across flats of just 19 mm, while offering an attractive price-performance ratio.

Wide range of applications

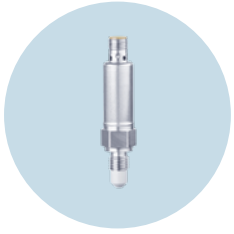
Thanks to the sealless process connection, the sensors are equally suited for hydraulic applications and use with inert gases.

The laser-labelling on the housing ensures that the sensor remains permanently identifiable even in adverse environmental conditions.

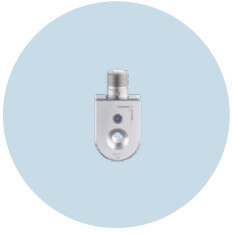
Via IO-Link, the pressure sensor continuously transmits process values such as system pressure and temperature, along with other relevant data, for example peak value counters. This digital measured value transmission delivers greater accuracy by eliminating conversion losses caused by D/A converters and external influences.

Technical data		
Accuracy / deviation (in % of the span) Characteristics deviation		< ± 0.5
Accuracy Temperature measurement	[K]	± 2.0 + (0.1 x (ambient temperature – medium temperature))
Medium temperature	[°C]	-40...90
Materials in contact with the medium		FKM, Stainless steel (1.4542, 1.4305)
Restrictor element integrated		Yes
Protection rating		IP67, IP69

BEST FRIENDS



Level sensor
Point level monitoring on tanks and containers



VVB vibration sensor
Easy condition monitoring for pumps



SA flow sensor
Simultaneous detection of flow rate and temperature

For further technical details, please visit: ifm.com/fs/PV7060

We reserve the right to make technical alterations without prior notice. · 11.2026
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