Really flat & really tight: flush G-1/2 pressure sensor

Pressure sensors

Resistant to viscous and abrasive media thanks to its ceramic measuring cell

Measuring principle extremely resistant to pressure peaks

True flush design prevents deposits and pipe clogging

Continuous transmission of pressure and temperature at a single measuring point

IO-Link

IP 67
IP 68

4...20 mA

High-grade stainless steel

Vibration and shock resistant

Defies high pressures and abrasive media

Wherever highly viscous or abrasive media such as adhesives, sealants or glue are conveyed through pipes under exact and high pressure, the compact G-1/2 pressure transmitter PL15 is the ideal choice. The flush design provides no dead space for media to adhere to, effectively preventing clogging of the pipe. The ceramic measuring cell also resists extreme pressure peaks and permanently withstands abrasive contents such as glass balls or other solid particles.

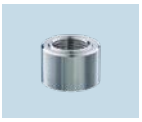
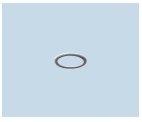
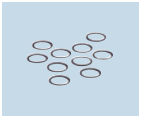
ifm's own, extremely safe sealing concept of the PL15 prevents fluid media such as water or lacquers from entering the threaded area of the measurement connection under high pressure, from depositing there, or from mixing / contaminating subsequent media further into the process.

Measuring range factory setting [bar]	Measuring range relative pressure [bar]	Order no.
G 1/2 process connection		
0…160	0…160	**PL1512**
0…100	0…100	**PL1502**
0…60	0…60	**PL1523**
0…40	-1…40	**PL1543**
0…25	-1…25	**PL1503**
0…16	-1…16	**PL1514**
0…10	-1…10	**PL1504**
0…6	-1…6	**PL1515**
0...2.5	-0.125…2.5	**PL1506**

2 in 1: pressure and temperature via IO-Link

The PL15 can be used both as a two-wire analogue and digitally via IO-Link. In the latter case, the pressure and temperature can be read continuously, as the pressure transmitter also transmits the temperature of the medium so that a second measuring point is not necessary. The operating hours can also be read via IO-Link.

Accessories

Type	Description	Order no.
Installation		
	Welding adapters	**E30509**
	Adapter G 1/2 – 1 NPT	**E30516**
	O-ring FFKM	**E30512**
	FFKM sealing ring	**E30513**
	O-ring EPDM, 5 pieces	**E30511**
	EPDM sealing ring, 10 pieces	**E30451**

Common technical data		
Operating voltage	[V DC]	9.6...30
Reverse polarity protection		•
Step response time analogue output	[ms]	12 (2L) / 3 (3L)
Accuracy / deviation (in % of the span)		
Deviation of the characteristics (to DIN IEC EN 62828-1) incl. drift due to tightening torque, zero point and span error, non-linearity, hysteresis		< ± 0,5
Repeatability		< ± 0,1
Long-term stability		< ± 0,1
Temperature coefficient (TK) (in % of the span per 10 K)		
TEMPCO of zero		< ± 0,1 (-25...85 °C) / < ± 0,3 (85...110 °C)
TEMPCO of the span		< ± 0,1 (-25...85 °C) / < ± 0,3 (85...110 °C)
Medium temperature	[°C]	-25...110
Materials (wetted parts)		Ceramics, PTFE; FKM, high-grade stainless steel (1.4435 / 316L)
Communication interface		IO-Link 1.1 COM2 (38.4 kbaud)

IO-Link

Type	Description	Order no.
	IO-Link Bluetooth adapter	**E30446**
	IO-Link repeater	**E30444**

Connection technology

Type	Description	Order no.
M12 connection cables		
	2 m black, PUR cable	**EVC001**
	5 m black, PUR cable	**EVC002**
	2 m black, PUR cable	**EVC004**
	5 m black, PUR cable	**EVC005**