

Flush pressure transmitter

PL-100-SEG14-A-ZVG/US/ IW



- 1 Gasket DIN 3869-14-FKM
2 O-ring 8.5 x 1.5 FKM



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Process connection	threaded connection G 1/4 external thread		

Application

Measuring element	thin film measuring cell with diaphragm seal technique		
Application	flush mountable for industrial applications; for industrial applications		
Media	viscous media and liquids with suspended particles; liquids and gases		
Medium temperature [°C]	-20...90		
Min. bursting pressure	1000 bar	14500 psi	100 MPa
Pressure rating	250 bar	3626 psi	25 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		



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Electrical data			
Operating voltage	[V]	8.5...36 DC	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time	[s]	0.1	
Inputs / outputs			
Number of inputs and outputs		Number of analogue outputs: 1	
Outputs			
Total number of outputs		1	
Output signal		analogue signal	
Number of analogue outputs		1	
Analogue current output	[mA]	4...20	
Max. load	[Ω]	(Ub – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω	
Short-circuit proof		yes	
Overload protection		yes	
Measuring/setting range			
Measuring range		0...100 bar	0...1450 psi 0...10 MPa
Accuracy / deviations			
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)	
Characteristics deviation	[% of the span]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)	
Linearity deviation	[% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)	
Hysteresis deviation	[% of the span]	< ± 0,2	
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)	
Temperature coefficient zero point	[% of the span / 10 K]	< 0,25 (-25...90 °C)	
Temperature coefficient span	[% of the span / 10 K]	< 0,15 (-25...90 °C)	
Response times			
Step response time analogue output	[ms]	2	
Operating conditions			
Ambient temperature	[°C]	-25...90	
Storage temperature	[°C]	-25...100	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC		DIN EN 61000-6-2	
		DIN EN 61000-6-3	
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	20 g (10...2000 Hz)



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MTTF	[years]	787
UL approval	UL Approval no.	J045
	File number UL	E174189

Mechanical data		
Weight	[g]	66
Housing		cylindrical
Dimensions	[mm]	Ø 19 / L = 73.8
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PEI
Materials (wetted parts)		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4435); FKM
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1/4 external thread
Process connection sealing		FKM
Fill fluid for pressure transmission		NEOBEE (food grade, FDA compliant)

Accessories		
Items supplied		O-ring : 8,5mm x 1,5mm, FKM, E30517 Gasket : G1/4 DIN EN ISO 1179-2, FKM, E30145
Accessories (optional)		O-ring : 5 x (8,5mm x 1,5 mm), FKM, E30517 O-ring : 1 x (8,5mm x 1,5 mm), FFKM, E30518 O-ring : 5 x (8,5mm x 1,5 mm), EPDM, E30519 Gasket : 10 x G/1/4 DIN EN ISO 1179-2, FKM, E30145 Gasket : 1 x G/1/4 DIN EN ISO 1179-2, FFKM, E30520 Gasket : 10 x G/1/4 DIN EN ISO 1179-2, EPDM, E30442

Remarks		
Remarks		BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



PL5402



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Connection



OUT	analogue output colours to DIN EN 60947-5-2 Core colours :
BN	brown
WH	white