

PU5601



Pressure transmitter

PU-250-SEG14-B-DVG/AM



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...250 bar	0...3625 psi	0...25 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

Application

Application	for mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Pressure rating	625 bar	9060 psi	62.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...32 DC
Current consumption [mA]	< 12
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
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1



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Analogue voltage output	[V]	0...10	
Min. load resistance	[Ω]	2000	
Short-circuit proof		yes	
Overload protection		yes	
Measuring/setting range			
Measuring range	0...250 bar	0...3625 psi	0...25 MPa
Accuracy / deviations			
Repeatability	[X21]	< ± 0,05; (with temperature fluctuations < 10 K)	
Characteristics deviation	[X21]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)	
Linearity deviation	[X21]	< ± 0,25 (BFSL) / < ± 0,5 (LS)	
Hysteresis deviation	[X21]	< ± 0,2	
Long-term stability	[X21]	< ± 0,1; (per 6 months)	
Temperature coefficient zero point	[X22]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)	
Temperature coefficient span	[X22]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)	
Response times			
Step response time analogue output	[ms]	2	
Operating conditions			
Ambient temperature	[°C]	-40...100	
Storage temperature	[°C]	-40...100	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC	compliant with UN ECE R10, rev. 5	(E1 compliant)	
	ISO 11452-2	100 V/m	
	DIN EN 61326-1		
Shock resistance	DIN EN 60068-2-27	500 g (1 ms)	
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)	
MTTF	[ANN]	640	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data			
Weight	[g]	63.5	
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS	
Materials (wetted parts)		1.4542 (17-4 PH / 630)	
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 (DIN EN ISO 1179-2)	
Process connection sealing		HNBR (DIN EN ISO 1179-2)	
Restrictor element integrated		yes	
Remarks			
Remarks		BFSL = Best Fit Straight Line	
		LS = limit value setting	
Pack quantity		1 pcs.	

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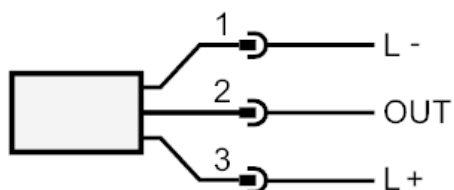
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Electrical connection

Connector: 1 x AMP-Superseal; Maximum cable length: 30 m



Connection



OUT analogue output