



Pressure transmitter

PU-160-SEG14-B-DVG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...160 bar	0...2320 psi	0...16 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. bursting pressure	1100 bar	15950 psi	110 MPa
Pressure rating	400 bar	5800 psi	40 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Vacuum resistance [MPa]	-0.1		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...36 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...160 bar	0...2320 psi	0...16 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 and span		[% of the span / 10 K]	< ± 0,1 (-25...90 °C) / < ± 0,2 (-40...-25 °C)	
Response times				
Step response time analogue output		[ms]	1	
Operating conditions				
Ambient temperature		[°C]	-40...90	
Storage temperature		[°C]	-40...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)
MTTF		[years]	762	
UL approval			UL Approval no.	J030
Pressure Equipment Directive			Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data				
Weight		[g]	59.5	
Housing			cylindrical	
Dimensions		[mm]	Ø 19 / L = 66	
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)	
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			FKM (DIN EN ISO 1179-2)	
Restrictor element integrated			no (can be retrofitted)	



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

Electrical connection

Connector: 1 x M12; coding: A



Connection



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