

PU1743

Pressure transmitter

PU-050PSEU96-V-DVG/DE



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...500 psi	0...3450 kPa
Process connection	threaded connection 9/16" - 18 UNF SAE6 O-Ring BOSS external thread	

Application

Application	for mobile applications	
Media	liquids and gases	
Medium temperature [°C]	-40...125	
Min. burst pressure	11600 psi	80 MPa
Pressure rating	1450 psi	10 MPa
Note on pressure rating	static	
Vacuum resistance	-14.5 psi	-0.1 MPa
Type of pressure	relative pressure	

Electrical data

Operating voltage [V]	8...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 analog outputs: 1
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Outputs

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



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Analog voltage output	[V]	0.5...4.5
Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	0...500 psi	0...3450 kPa
Accuracy / deviations		
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (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]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Reaction times		
Step response time analog 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
	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	[years]	658
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	61
Housing		tubular
Dimensions	[mm]	Ø 19 / L = 71.5
Material		stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PPS
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 9/16" - 18 UNF SAE6 O-Ring BOSS external thread

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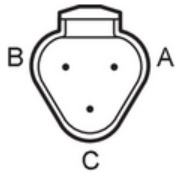
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

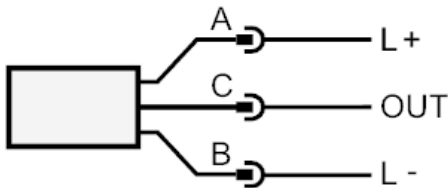
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Contacts: 3; Maximum cable length: 30 m



Connection



OUT analog output