

PU1700

Pressure transmitter

PU-500PSEU96-V-DVG/DE



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [psi]	0...5000
Process connection	threaded connection 9/16" - 18 UNF external thread

Application

Application	for mobile applications
Media	liquids and gases
Medium temperature [°C]	-40...125
Min. bursting pressure [psi]	24650
Pressure rating [psi]	14500
Note on pressure rating	static
Vacuum resistance [psi]	-14.5
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 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]	0.5...4.5
Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	[psi]	0...5000
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	
	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]	652
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	62
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 9/16" - 18 UNF external thread	
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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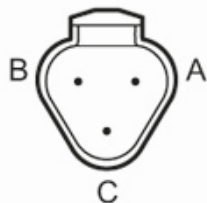


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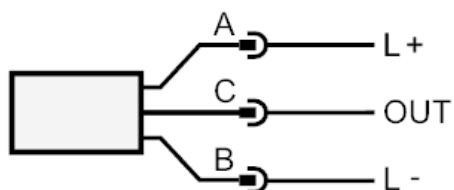
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Electrical connection

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



Connection



OUT analogue output