

PU1743

Pressure transmitter

PU-050PSEU96-V-DVG/DE



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [psi]	0...500
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]	11600
Pressure rating [psi]	1450
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 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	[psi]	0...500
Accuracy / deviations		
Repeatability	[% of the span]	$< \pm 0,05$; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	$< \pm 0,8$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Hysteresis deviation	[% of the span]	$< \pm 0,2$
Long-term stability	[% of the span]	$< \pm 0,1$; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	$< \pm 0,1$ (0...80 °C); $< \pm 0,2$ (-40...0 °C / 80...125 °C)
Temperature coefficient span	[% of the span / 10 K]	$< \pm 0,1$ (0...80 °C); $< \pm 0,2$ (-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
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 external thread
Process connection sealing		HNBR (DIN EN ISO 1179-2)

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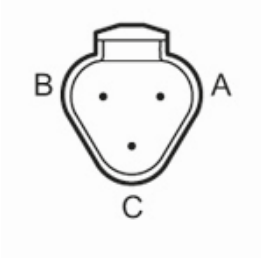
Restrictor element integrated	yes
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Remarks

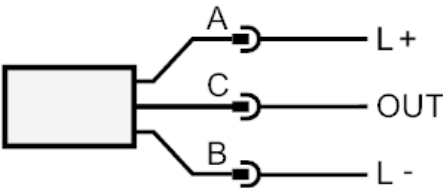
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT analog output