

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
Min. bursting pressure [MPa]	99.98
Pressure rating [psi]	14500
Pressure rating [MPa]	50
Note on pressure rating	static
Vacuum resistance [psi]	-14.5
Vacuum resistance [MPa]	-0.1
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
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 [% 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)
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 [years]		652
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight [g]		62
Housing		cylindrical
Dimensions [mm]		$\varnothing 19$ / L = 71.5
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS

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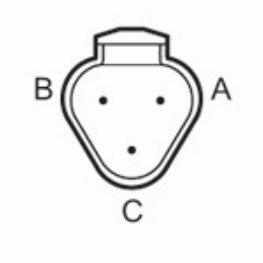
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH)
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)
Tightening torque [Nm]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection 9/16" - 18 UNF external thread
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

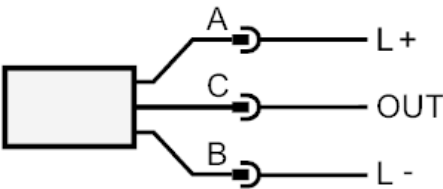
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT analogue output