



Pressure transmitter with ceramic measuring cell

PA-001PRBN14-A-ZVG/US/ IV



1 ventilation



Product characteristics	
Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [psi]	0...15
Process connection	threaded connection 1/4" NPT external thread internal thread:M5
Application	
Special feature	Gold-plated contacts
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...90
Min. bursting pressure [psi]	450
Min. bursting pressure [MPa]	3.1
Pressure rating [psi]	145
Pressure rating [MPa]	1
Type of pressure	relative pressure
Electrical data	
Operating voltage [V]	9.6...32 DC
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Inputs / outputs	
Number of inputs and outputs	Number of analogue outputs: 1
Outputs	
Total number of outputs	1



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Output signal	analogue signal	
Number of analogue outputs	1	
Analogue current output [mA]	4...20	
Max. load [Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)	
Overload protection	yes	
Measuring/setting range		
Measuring range [psi]	0...15	
Accuracy / deviations		
Repeatability [% of the span]	< 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)	
Long-term stability [% of the span]	< ± 0,05; (per 6 months)	
Temperature coefficient zero point [% of the span / 10 K]	0,15; (0...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,2; (0...80 °C)	
Response times		
Step response time analogue output [ms]	3	
Operating conditions		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...100	
Protection	IP 65	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	30 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	radiation of interference	according to the automotive directive 2004/104/EC / CISPR 25
	immunity	according to the automotive directive 2004/104/EC / ISO 11452-2
	HF radiated	100 V/m
	pulse resistance	ISO 7637-2 / severity level 3
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [years]	555	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]	213	
Housing	cylindrical	
Dimensions [mm]	Ø 30 / L = 79.5	
Materials	stainless steel (316L/1.4404); FKM; PA; EPDM/X	
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; FKM	

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Min. pressure cycles	100 million
Process connection	threaded connection 1/4" NPT external thread internal thread:M5
Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

