



Pressure transmitter with ceramic measuring cell

PA-100PSBN14-A-ZVG/US/ IV



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	[psi]	0...1000
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	
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.	
Medium temperature	[°C]	-25...90
Min. bursting pressure	[psi]	9400
Min. bursting pressure	[MPa]	65
Pressure rating	[psi]	4350
Pressure rating	[MPa]	30
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; (U _b = 24 V; (U _b - 9,6 V) / 20 mA)
Overload protection	yes

Measuring/setting range

Measuring range [psi]	0...1000
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Accuracy / deviations

Repeatability [% of the span]	< 0,15; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 0,35 (BFSL) / < ± 0,75 (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]	0,2; (0...80 °C)
Temperature coefficient span [% of the span / 10 K]	0,3; (0...80 °C)

Response times

Step response time analogue output [ms]	3
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Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 68; IP 69K

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]	214.5
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

PX3222



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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

