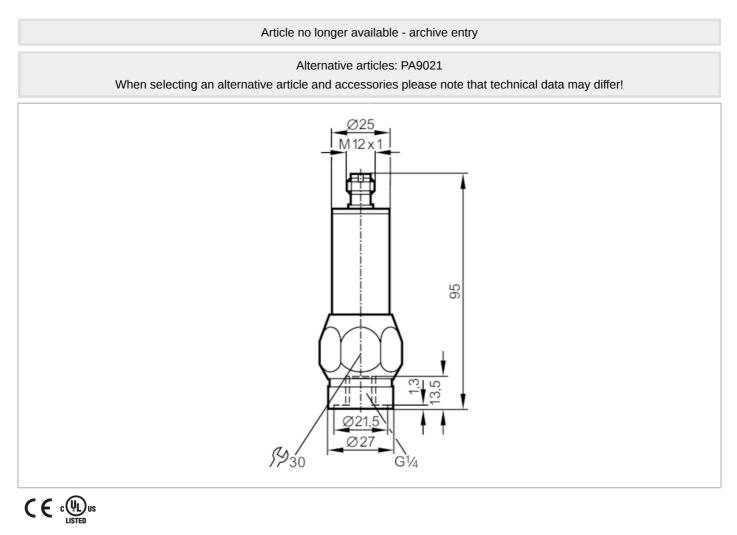
PA1021

Pressure transmitter with ceramic measuring cell



PA-250-SBR14-D-DVG/US/ /V



Product characteristics						
Number of inputs and outputs		Number of analog outputs: 1				
Measuring range	[bar]	0250				
Process connection		threaded connection G 1/4 Internal thread				
Application						
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]	-2580				
Min. bursting pressure	[bar]	850				
Pressure rating	[bar]	400				
Type of pressure		relative pressure				
Electrical data						
Operating voltage	[V]	1630 DC				
Current consumption	[mA]	< 18				
Min. insulation resistance	[MΩ]	100; (500 V DC)				
Protection class		III				
Reverse polarity protection		yes				

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Pressure transmitter with ceramic measuring cell



PA-250-SBR14-D-DVG/US/ /V

Number of inputs and outputs Number of analog outputs: 1 Cutput 1 Total number of analog outputs 1 Number of analog outputs 1 Number of analog outputs 1 Analog voltage output 1 Min. load resistance 00 Overload protection 9000 Verload protection 9000 Overload protection 9000 Resuring range (bar) Measuring range (bar) Outracteristics deviation 0250 Repeatability <0.1; (with temperature functuations < 10 K) Protection <± 1.0; (incl. linearity, zero and span error (limit value setting)) Protection \$< ± 1.0; (incl. linearity, zero and span error (limit value setting)) Output \$< ± 1.0; (incl. linearity, zero and span error (limit value setting)) Output \$ \$ Output \$ \$ Output \$ \$ Storage temperature [°C] \$ Protection \$ \$ Enst I approvals \$	Inputs / outputs						
Total number of outputs 1 Output signal analog signal Number of analog outputs 1 Analog voltage output [M] Min. load resistance [Q] Overload protection yes Measuring/setting range 0250 Accuracy / deviations Courted protection Repeatability 0250 (% of the final value) <0.1: (with temperature fluctuations < 10 K)	Number of inputs and outputs		Number of analog outputs: 1				
Output signal analog signal Number of analog outputs 1 Analog voltage output [V] Min. load resistance [Q] Overload protection yes Measuring/setting range [bar] Measuring range [bar] Characteristics deviation [bar] [bar of the final value] < 0,1; (with temperature fluctuations < 10 K)	Outputs						
Number of analog outputs 1 Analog voltage output [V] Min. load resistance [Q] Overload protection yes Measuring/setting range [bar] Measuring range [bar] Accuracy / deviations 0250 Accuracy / deviations Repeatability (% of the final value] (% of the final value] < 0.1; (with temperature fluctuations < 10 K)	Total number of outputs			1			
Analog voltage output [V] 110 Min. load resistance [Q] 5000 Overload protection yes Measuring/setting range [bar] 0250 Accuracy / deviations Repeatability <0.1; (with temperature fluctuations < 10 K)	Output signal		analog signal				
Min. load resistance [Q] 5000 Overload protection yes Measuring/setting range [bar] 0250 Accuracy / deviations Repetability <0250	Number of analog outputs		1				
Measuring/setting range yes Measuring/setting range (bar) Measuring range (bar) Accuracy / deviations 0250 Accuracy / deviations (% of the final value) [% of the final value] < 0.1; (with temperature fluctuations < 10 K)	Analog voltage output	[V]		110			
Measuring/setting range [bar] 0,250 Accuracy / deviations Repeatability [% of the final value] < 0,1; (with temperature fluctuations < 10 K)	Min. load resistance	[Ω]		5000			
Measuring range [bar] 0250 Accuracy / deviations Repeatability < 0,1; (with temperature fluctuations < 10 K)	Overload protection		yes				
Accuracy / deviations Repeatability < 0.1; (with temperature fluctuations < 10 K)	Measuring/setting range						
Repeatability < 0.1; (with temperature fluctuations < 10 K)	Measuring range	[bar]		0250			
[% of the final value]< 0,1; (with temperature fluctuations < 10 K)Characteristics deviation [% of the final value]< \pm 1,0; (incl. linearity, zero and span error (limit value setting))Temperature drift per 10 K< \pm 0.3Reaction timesMax. response time analog outputMax. response time analog output[ms]3Operating conditionsAmbient temperature ("C]-2580Storage temperature ("C]ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-4 HF conducted ID V/mShock resistance Vibration resistanceDIN IEC 68-2-27 DIN IEC 68-2-27 DIN IEC 68-2-2750 g (11 ms) DIN IEC 68-2-27 DIN IEC 68-2-27 DIN IEC 68-2-26 DIN IEC 68-2-2620 g (102000 Hz)Material Material Materials (wetted parts) Min. pressure cyclesFKM; PA; PBT; stainless steel (1.4305 / 303) FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles Torcess connection100 millionProcess connectionThreaded connection G 1/4 Internal threadRemarksImage: Stainless Steel (Internal thread	Accuracy / deviations						
[% of the final value] $< \pm 1,0;$ (incl. linearity, zero and span error (limit value setting))Temperature drift per 10 K $< \pm 0.3$ Reaction timesMax. response time analog [ms] output3Operating conditionsAmbient temperature [°C] -2580 Storage temperature [°C] -40100 ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-4 Burst EN 61000-4-6 HF conducted $10 V/m$ Shock resistanceDIN IEC 68-2-27 DIN IEC 68-2-6 $50 g (11 ms)$ Vibration resistanceDIN IEC 68-2-6 DIN IEC 68-2-6 $20 g (102000 Hz)$ MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Material (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionThreaded connection G 1/4 Internal threadRemarks			< 0,1; (with temperature fluctuations < 10 K)				
Reaction timesMax. response time analog output[ms]3Operating conditionsAmbient temperature[°C]-2580Storage temperature[°C]-40100ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADENCEN 61000-4-3 HF radiated10 V/mENCEN 61000-4-4 Burst2 kVEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connection100 millionRemarksEmarks			$< \pm$ 1,0; (incl. linearity, zero and span error (limit value setting))				
Max. response time analog output[ms]3Operating conditionsAmbient temperature[°C]-2580Storage temperature[°C]-40100ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-6750 g (11 ms)Vibration resistanceDIN IEC 68-2-6220 g (102000 Hz)MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Temperature drift per 10 K		< ± 0.3				
3Operating conditionsAmbient temperature[°C]-2580Storage temperature[°C]-40100ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connection1/4 Internal threadRemarks	Reaction times	,					
Ambient temperature[°C]-2580Storage temperature[°C]-40100ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADENCEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataFKM; PA; PBT; stainless steel (1.4305 / 303)MaterialFKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connection1/4 Internal thread		[ms]		3			
Storage temperature[°C]-40100ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADENCEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataFKM; PA; PBT; stainless steel (1.4305 / 303)MaterialFKM; ceramics; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Operating conditions						
ProtectionIP 67Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADEMCEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)MeterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Ambient temperature	[°C]	-2580				
Tests / approvalsEMCEN 61000-4-2 ESD4 kV CD / 8 kV ADEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Storage temperature	[°C]	-40100				
EMCEN 61000-4-2 ESD4 kV CD / 8 kV ADEN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Protection		IP 67				
EN 61000-4-3 HF radiated10 V/mEN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	Tests / approvals						
EN 61000-4-4 Burst2 kVEN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks	EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD			
EN 61000-4-6 HF conducted10 VShock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks			EN 61000-4-3 HF radiated	10 V/m			
Shock resistanceDIN IEC 68-2-2750 g (11 ms)Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks							
Vibration resistanceDIN IEC 68-2-620 g (102000 Hz)Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks							
Mechanical dataMaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks							
MaterialFKM; PA; PBT; stainless steel (1.4305 / 303)Materials (wetted parts)FKM; ceramics; stainless steel (1.4305 / 303)Min. pressure cycles100 millionProcess connectionthreaded connection G 1/4 Internal threadRemarks			DIN IEC 68-2-6	20 g (102000 HZ)			
Materials (wetted parts) FKM; ceramics; stainless steel (1.4305 / 303) Min. pressure cycles 100 million Process connection threaded connection G 1/4 Internal thread Remarks 100 million							
Min. pressure cycles 100 million Process connection threaded connection G 1/4 Internal thread Remarks 100 million							
Process connection G 1/4 Internal thread Remarks							
Remarks							
			threaded	connection G 1/4 Internal thread			
Pack quantity 1 pcs.							
	Pack quantity		1 pcs.				

PA1021

Pressure transmitter with ceramic measuring cell

PA-250-SBR14-D-DVG/US/ /V

Electrical connection



Connector: 1 x M12; coding: A



Connection

