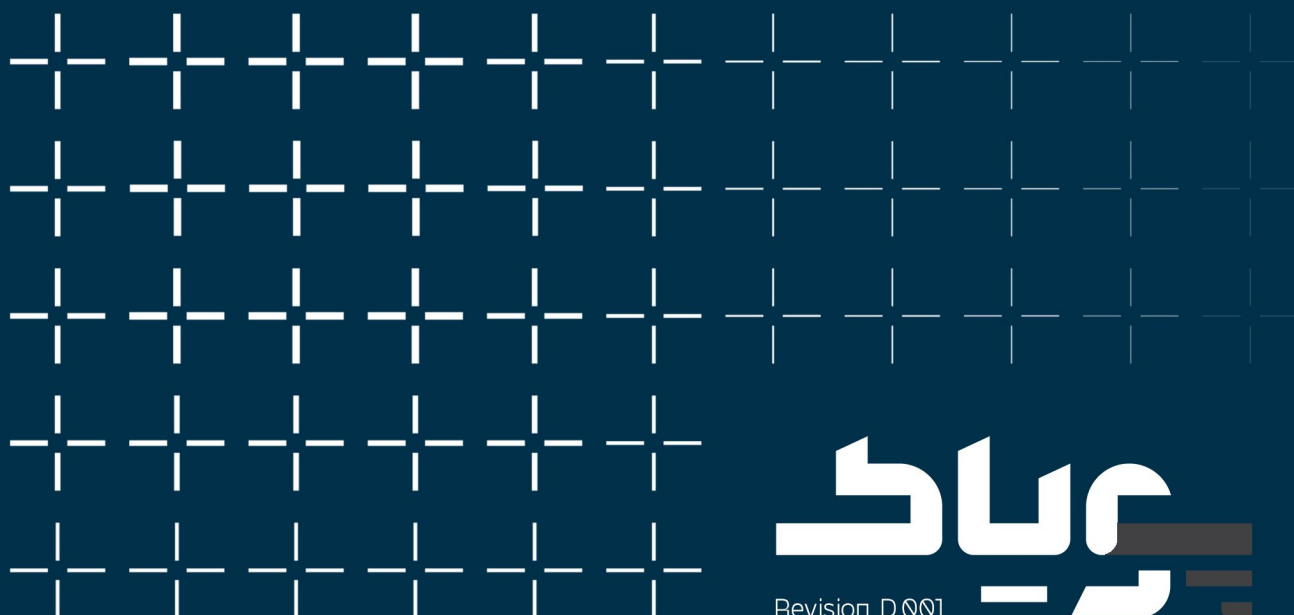
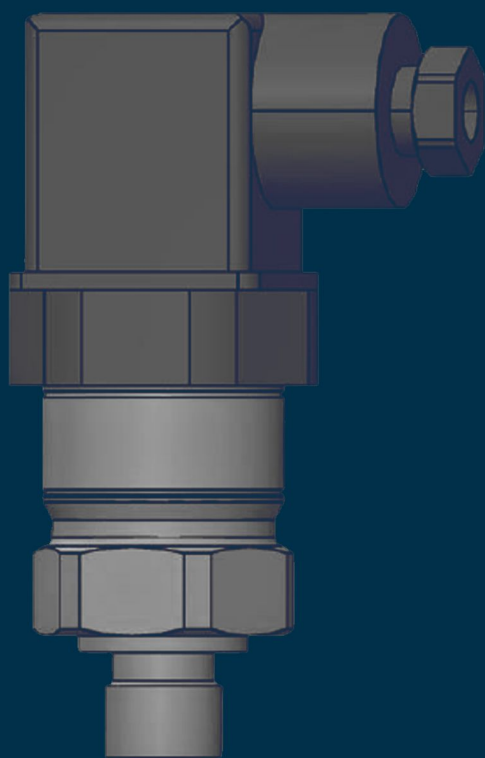


Pressure Transmitter

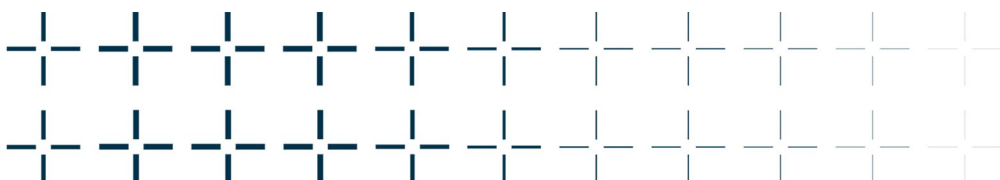
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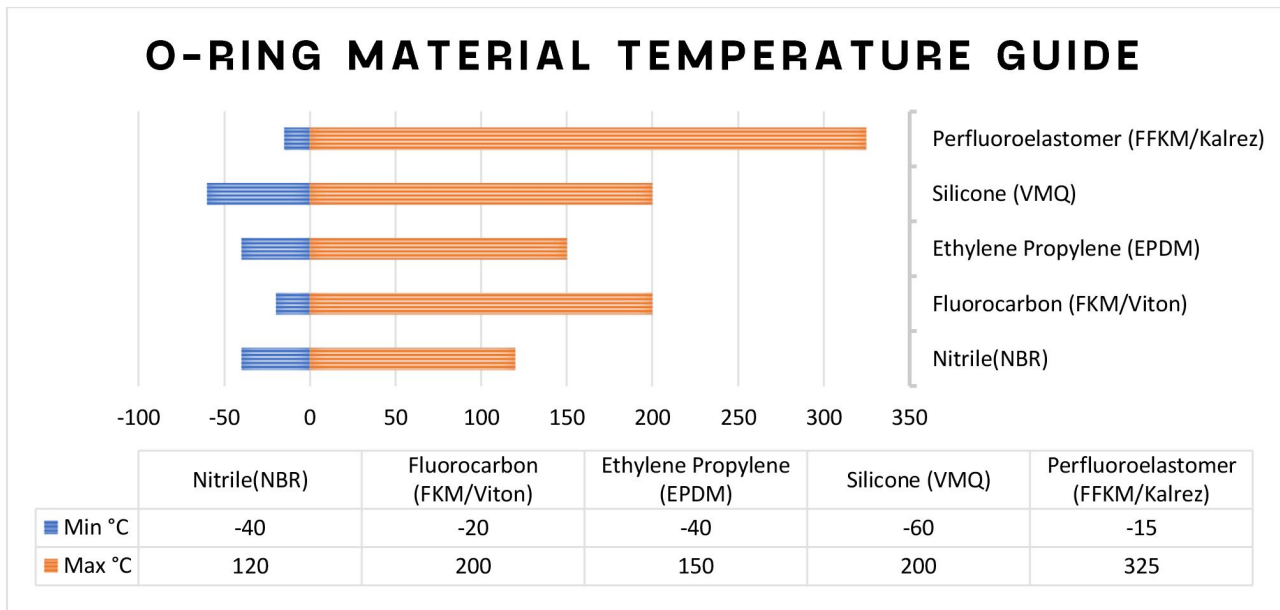
Revision D.001

Overview			
<ul style="list-style-type: none"> ✓ Stable and reliable ✓ Rugged and durable ✓ Excellent cost performance ✓ Meets the requirements of industrial standards. 		Accuracy	0.5%
		Hysteresis, repeatability	0.05%
		Overpressure limit	1.5 x Range
		Thermal compensation range	0 ... 70°C
Measuring Range	0 ... 6 up to 100 bar Relative pressure measurement	Thermal error	0.2% / year
Output Signal	4 ... 20mA	Long-term stability	0.5% / year
Process Connection	G ¼, G ½, NPT ¼, NPT ½ Male		
Application		Technical data	
<p>The ADG710 pressure transmitter measures the pressure of mediums such as air, water, oil, and industrial gases. It can be used in a variety of industries, including:</p> <ul style="list-style-type: none"> - Industrial Automation - Hydraulic and Pneumatic systems - Automotive industry - The water and wastewater industry - Agricultural machinery equipment - Refrigeration compressor and heating systems - Laboratory and test processes 		Degree of protection	IP65
		Material of wetted part	Ceramic alloy Al ₂ O ₃
		Material of casing	SS304, SS316L
		Electrical parameters	
		Output signal	4 ... 20mA
Power supply	10 ... 36 vDC Recommended: 24vDC two wire transmission		
Load resistance (for current output)	$R[\Omega] = \frac{U_{PS}[V] - 8v}{0.02A}$		
Construction		Operating conditions	
<p>This line of products uses the piezoresistive principle and ceramic pressure sensor technology to measure a variety of industrial fluids. Ceramics are noted for their high elasticity, resistance to corrosion, resistance to wear, resistance to shock, and resistance to vibration. Ceramics' thermal stability and thick film resistance allow them to operate with high accuracy and stability over a temperature range of -40 to 135°C.</p>		Operating temperature range	-25 ... 80°C
		Medium temperature range	-25 ... 120°C direct measurement -25 ... 170°C Measurement by impulse line
Installation			
<p>Only use the pressure transmitter if it is in perfect condition with respect to safety. Prior to commissioning, the pressure transmitter must be subjected to a visual inspection. For pressure measurements of steam or other hot media a siphon or impulse line should be used. Sealing faces must be clean and undamaged. Consider sufficient space for a safe electrical installation.</p>			
Dimensional drawing		Mechanical Connection	
		Thread type "T"	Diameter "ø"
		G ¼ Male	13.15
		G ½ Male	20.95
		NPT ¼ Male	13.71
		NPT ½ Male	21.33
		Weight	Approx. 450g
		All values are in mm.	



O-Ring selection guide:

O-rings used in pressure transmitters are typically made from various elastomer materials that can withstand the required temperature and compatibility with different mediums. The selection of the O-ring material depends on the specific application requirements.



1. Nitrile (NBR):

Compatibility: Suitable for use with oils, water, hydraulic fluids, and many gases. Not compatible with strong acids, ketones, and aromatic hydrocarbons.

2. Fluorocarbon (FKM/Viton):

Compatibility: Excellent resistance to many chemicals, oils, fuels, and high temperatures. Compatible with a wide range of fluids, including aliphatic and aromatic hydrocarbons, acids, and steam.

3. Ethylene Propylene (EPDM):

Compatibility: Resistant to hot water and steam, diluted acids, alkaline solutions, and phosphate ester-based hydraulic fluids. Not compatible with petroleum oils, greases, and fuels.

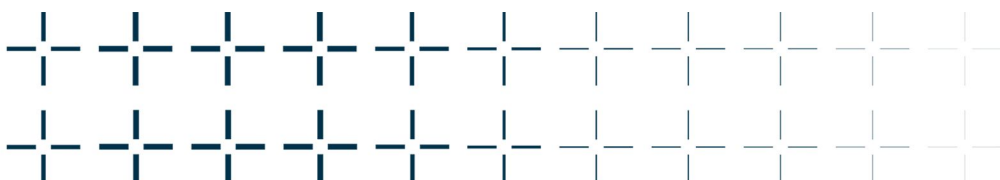
4. Silicone (VMQ):

Compatibility: Excellent resistance to extreme temperatures, weathering, and ozone. Suitable for use with water, steam, alcohols, and some acids. Not compatible with concentrated acids, oils, fuels, and aromatic solvents.

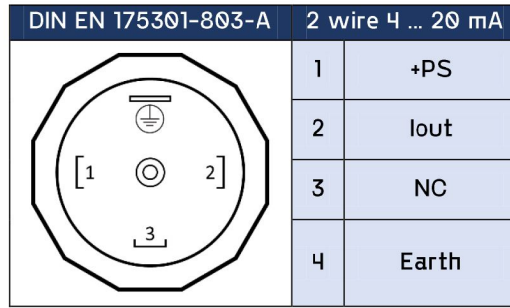
5. Perfluoroelastomer (FFKM/Kalrez):

Compatibility: Exceptional chemical resistance, suitable for aggressive chemicals, solvents, acids, and high-temperature applications. Compatible with a wide range of mediums, including aggressive fluids and gases.

It's important to note that the temperature and compatibility ranges provided are general guidelines, and specific formulations within each material category may have slightly different properties.



Electrical Connection:



Ordering Procedure:

Model	ADG-710								
Accuracy	A5				0.5% FS				
Pressure Type	G				Gauge				
Pressure Range	Code	6	10	16	25	40	60	100	CM*
	Bar	6.0	10.0	16.0	25.0	40.0	60.0	100	<100
	Psi	87.029	145.047	232.075	362.438	580.701	870.051	1,450.85	<1,450.85
Electrical Output	I				4-20mA				
Process Connection	Code	1M	2M	3M	4M	5M			
	Type	G ¼	G ½	NPT ½	NPT ¼	M20			
Electrical Connection	Code	A			DIN EN 175301-803-A				
Housing Material	Code	H4			H6				
	Type	Stainless Steel, 304			Stainless Steel, 316L				
Sealing material	Code	V	E	N	Q	F			
	Type	FKM/Viton	EPDM	NBR	VMQ	FFKM			
Snubber screw	Code	S0			S1				
	Type	Without (Default)			With snubber screw				
Product warranty	Code	WR1 (Default)			WR3				
	Type	1-year limited warranty			3-year limited warranty				
Certification	Code	C0		C1		C2			
	Type	No Certification		Factory Calibration Certificate		3rd Party Lab. Certificate			

*CM: According to the customer's order.

Example: ADG-710 A5-G25-I-2M-A-H6-N-S0-WR1-C1



