



## ADG-730 Technical Datasheet

### Pressure Transmitter

#### Applications:

- Industrial automation
- Hydraulic and pneumatic systems
- Automotive industry
- The water and wastewater industry
- HVAC systems
- Laboratory and test processes



POOYAC

# Pressure Transmitter

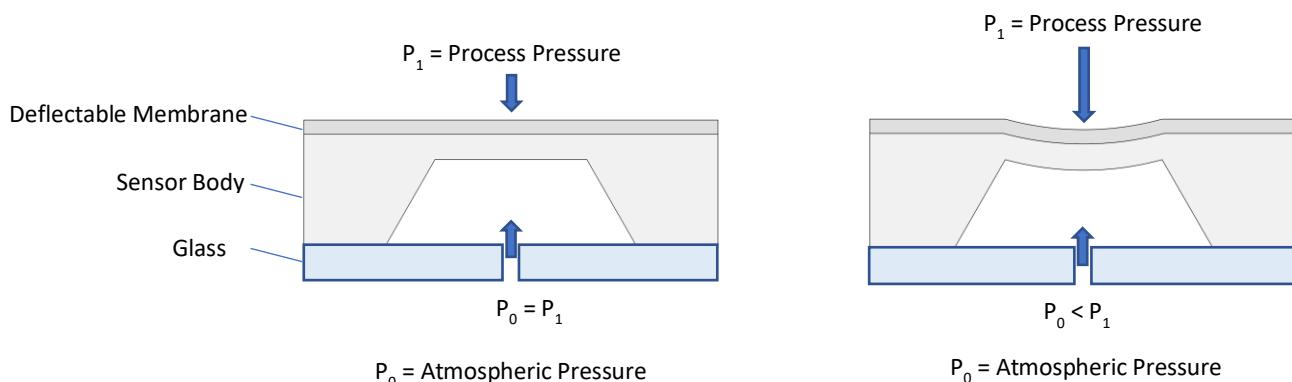
## ADG-730

### Introduction:

The ADG-730 Pressure Transmitter utilises a cutting-edge sensor that leverages advanced diffused silicon technology to deliver precise and reliable pressure measurements. Designed for durability and performance, it features a robust SS316L diaphragm, a wide operating temperature range, exceptional stability, and resistance to harsh environments. This makes it an ideal solution for critical industrial processes where accuracy and dependability are paramount.

### Working principle:

Applied pressure deforms the SS316L diaphragm, deflecting the sensor membrane and altering the resistance of the pressure sensing element. This change generates a voltage proportional to the applied pressure, which the transmitter's electronics process and amplify to produce a standardized 4-20 mA output signal, compatible with various controllers and measurement systems. The transmitter measures the differential pressure of the process relative to atmospheric pressure.



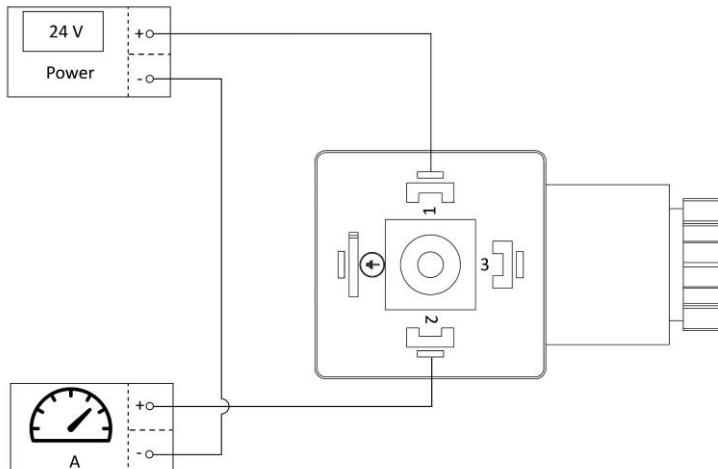
### Features:

- Stable and reliable
- Rugged and durable
- IP65 Certified dust and water resistance
- Meets the requirements of industrial standards (IEC62828-1,2)



Technical Parameters			
Measuring Range	0 ... 0.6 bar to 100 bar (Gauge)	Accuracy	0.5% F.S.
Overpressure Limit	2.0 x Range	Wetted Part Material	SS316L
Burst Pressure	4.0 x Range	Housing Material	SS304
Degree of Protection	IP65	O-ring Material	NBR
Sensor Technology	Diffused Silicon	Process Connection	G 1/4 Male
Electrical Parameters			
Power Supply	10 ... 30vDC	Load Resistance	$R[\Omega] = \frac{(U_{PS}[v] - 8v)}{0.02A}$
Output Signal	4-20 mA (two wire)	Response Time	< 1 ms
Performance			
Nonlinearity	Min: -0.3 %FS Nominal: $\pm 0.2$ %FS Max: +0.3 %FS	Operating Temp. Range	-25 ... 80°C
Hysteresis, Repeatability	Min: -0.05 %FS Nominal: $\pm 0.03$ %FS Max: -0.05 %FS	Medium Temp. Range	-25 ... 120°C Direct Measurement
Thermal Hysteresis	Min: -0.075 %FS Nominal: $\pm 0.05$ %FS Max: +0.075 %FS		-25 ... 170°C By Impulse Line

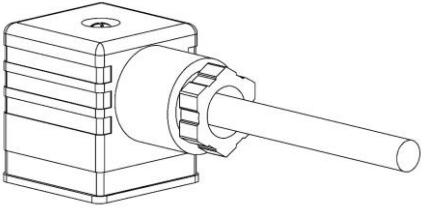
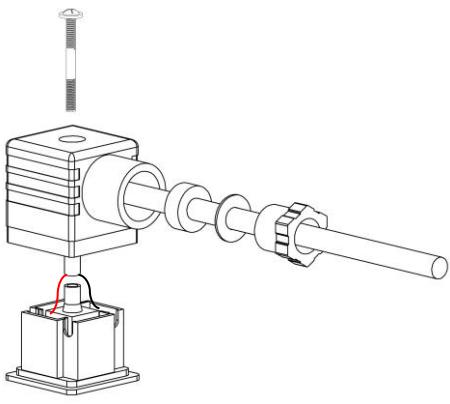
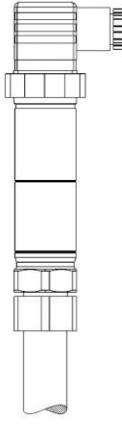
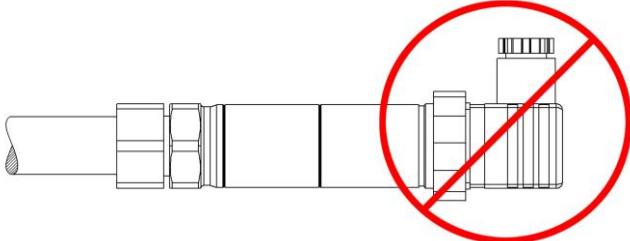
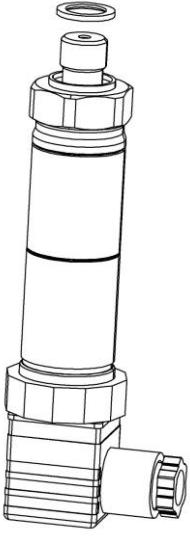
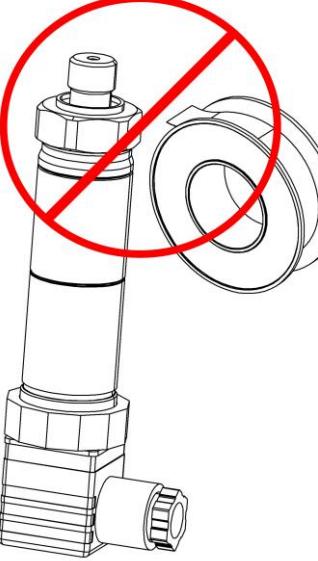
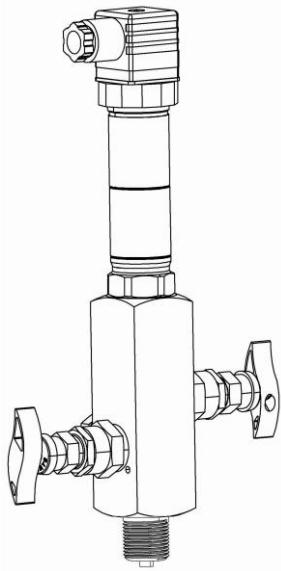
### Wiring diagram:



DIN EN 175301-803-A	
PIN1	$U_{PS}$
PIN2	$+I_{OUT}$
PIN3	No Connection
	Earth

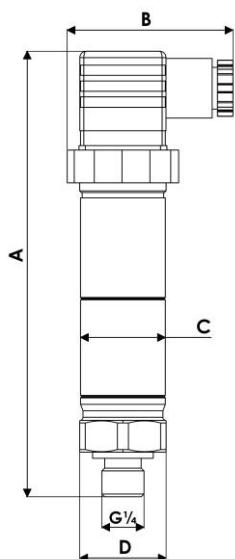


**Recommendations regarding installation:**

		
<p>In case of high electromagnetic interference, use a twisted pair shield cable</p>	<p>Use a cable with a suitable diameter to fit the connector gasket for proper sealing</p>	
		
<p>Mount the transmitter vertically, ensuring it is aligned with the measurement point for accurate results</p>	<p>Avoid mounting the transmitter with the gland pointing upward</p>	
		
<p>Use the product gasket to seal the connection</p>	<p>No Teflon tape is required</p>	<p>Using a valve manifold is recommended</p>



## Dimensions:



Parameter	Value (mm)
A	139.80
B	51.81
C	26.50
D	27.00

## Ordering Procedure:

<b>Model</b>	ADG-730									
<b>Accuracy</b>	0.5%FS									
	A5									
<b>Pressure Type</b>	Gauge									
<b>Pressure Range</b>	0.6 bar	1 bar	4 bar	6 bar	10 bar	16 bar	25 bar	40 bar	60 bar	100 bar
	0.6	1	4	6	10	16	25	40	60	100
<b>Electrical Output</b>	4-20 mA									
	I									
<b>Electrical Connection</b>	DIN EN 175301-803-A									
	A									
<b>Process Connection</b>	G 1/4 (Male)									
	M1									
<b>Housing Material</b>	Stainless Steel, 304									
	S4									
<b>O-ring Material</b>	NBR									
	N									

## Additional Options:

<b>Certification</b>	3 <sup>rd</sup> Party Lab. Certificate
	/C2

**Example:** ADG730-A5-G6-I-A-M1-S4-N /C2

