



Piezoresistive Pressure Transmitter



General Industrial Applications

Features

- Measuring ranges from 100mbar to 600bar
- Absolute, gauge and sealed gauge
- Accuracy: $\pm 0.25\% \text{FSO}$ or $\pm 0.5\% \text{FSO}$
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA, 0...10V, 0...5V and others

Product Overview

The pressure transmitter is made from high-quality silicon piezoresistive sensor.

The piezoresistive sensor is packaged in stainless steel housing.

It is precision engineered to fit most industrial pressure measurement.

The compact and rugged design makes these pressure transmitter suitable for applications including process control systems, hydraulic systems and valves, refrigeration and HVAC controls, level measurement and test equipment.

A wide range of process connection and electrical connection options are available to meet almost requirement.

Applications

- Process control systems
- Refrigeration and HVAC controls
- Hydraulic systems and valve
- Machine building
- Pumps and compressors

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
-1...0bar	•		
-0.35...0bar	•		
-0.2...0bar	•		
0...0.1bar	•		
0...0.2bar	•		
0...0.35bar	•		•
0...0.7bar	•		•
0...1bar	•		•
0...1.6bar	•		
0...2.5bar	•		•
0...4bar	•		•
0...6bar	•		•
0...10bar	•	•	•
0...16bar	•	•	•
0...25bar	•	•	
0...60bar		•	
0...100bar		•	
0...250bar		•	
0...400bar		•	
0...1000bar		•	

Other pressure ranges available. Please consult the factory.

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Performance Specifications

Parameter	Value	Units	Notes		
General					
Pressure Range	-0.01-0 -1000	Bar	1bar=14.5Psi		
Overpressure	1.5xFS	bar			
Environmental					
Operating Temperature Range	-20 to +85	°C	-4 °F to 185 °F		
Compensated Temperature Range	-10 to +70	°C	14 °F to 158 °F		
Storage Temperature Range	-40 to +125	°C	-40 °F to 257 °F		
Vibration	10	g	20 to 2000Hz		
Shock	100	g	10ms		
Cycles	10x10 ⁶	cycles			
Electrical @ 25°C(77°F)					
Output Signal	4...20mA 0...5Vdc 1...5Vdc 0...10Vdc 0.5...4.5Vdc(ratiometric)				
Power Supply(Vs)	12...36Vdc 12...36Vdc 12...36Vdc 15...36Vdc 5Vdc				
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)				
Insulation Resistance	100MΩ @50Vdc				
Physical Specifications					
Media Compatibility	All media compatible with 316L stainless steel				
Housing	304 or 316 stainless steel				
Diaphragm	316L stainless steel				
Seal Ring	Viton or NBR				
Oil Filling	Silicone oil				
Protection	IP65(Standard), IP68(only for cable outlet)				
Net Weight	Approx.185g				
Parameter	Minimum	Typical	Maximum	Units	Notes
Performance					
Accuracy	0.1	0.25	0.5	%FSO	1,2
Temp Coeff - Zero		±0.75	±1.5	%FSO	3
Temp Coeff - Span		±0.75	±1.5	%FSO	3
Long-Term Stability		±0.2	±0.3	%FSO/year	1

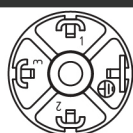
Notes

- All values measured at 25°C(77°F)
- Including non-linearity, hysteresis and repeatability.
- 10°C to 70°C(14°F to 158°F) with reference to 25°C(77°F).

The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

Connector DIN43650



	2-wire(current)	3-wire(voltage)
Supply+	1	1
Signal+	2	3
Gnd	-	2

Cable outlet



	2-wire(current)	3-wire(voltage)
Supply+	red	red
Signal+	yellow	blue
Gnd	-	yellow

Connector M12x1(4-pin)



	2-wire(current)	3-wire(voltage)
Supply+	1 brown	1 brown
Signal+	3 blue	4 black
Gnd	-	3 blue