



Piezoresistive Pressure Transducer

Tek-Bar 3120S

FEATURES

- Measuring Range from -14.7psi to 8000psi.
- Measure Absolute, Gauge and Sealed Gauge Pressure.
- Accuracy: $\pm 1.0\%$ FSO or $\pm 0.5\%$ FSO.
- Calibrated and Temperature Compensated.
- Stainless Steel Construction.
- Piezoresistive Pressure Sensor Design.
- Wide Range of Pressure and Electrical Connection.
- Output: 4 to 20mA, 0 to 10V, 0 to 5V, and others.

APPLICATIONS

- Process Control Systems
- Refrigeration and HVAC Controls
- Hydraulic Systems and Valves
- Machine Building
- Pumps

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- Compressor Testing Technologies
- Laboratory Technologies
- Combustion Engines
- Diesel Engines and Steam Turbines

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2 SPECIFICATION

Accuracy	±0.5 or 1.0%FSO
Thermal Effects	Temp Coeff-Zero: ±0.75%FSO Temp Coeff-Span: ±0.75%FSO
Long Term Stability	±0.2%FSO/year
Pressure Range	Pressure Range: -14.7psi to 8000psi Over Pressure: 1.5xFS
Process Temperature	Operating Temperature: -4°F to 185°F(-20°C to 85°C) Compensated Temperature Range: 14°F to 158°F(-10°C to 70°C) Storage Temperature: -40°F to 257°F(-40°C to 125°C)
Vibration	10G (20 to 2000Hz)
Shock	100G (10ms)
Cycles	10x10 ⁶ Cycles
Output Signal	4 to 20mA 0 to 5VDC 1 to 5VDC 0 to 10VDC
Power Supply	10 to 36VDC 15 to 36VDC
Load Resistance	For Current Output: <(Vs-12)/0.02A For Voltage Output: >10kΩ
Insulation Resistance	100MΩ@50VDC
Media Compatibility	All media compatible with 316L SS
Housing	304 SS
Diaphragm	316L SS
Oil Filling	Silicon Oil
Protection	IP65 (Standard) IP66 (Only for cable)
Weight	Approx. 185g