



PRESSURE



Technology Solutions



Piezoresistive Pressure Transducer

Tek-Bar 3120S

1 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.

3 APPLICATIONS

- Process Control Systems
- Refrigeration and HVAC Controls
- Hydraulic Systems and Valves
- Machine Building
- Pumps
- Compressor Testing Technologies
- Laboratory Technologies
- Combustion Engines
- Diesel Engines and Steam Turbines

CONTACT US

796 Tek Drive, Crystal Lake, IL 60014 USA

+1 847 857 6076
+1 847 655 7428

Email: tektrol@tek-trol.com

www.tek-trol.com

2 SPECIFICATION

Accuracy	± 0.5 or 1.0% FSO
Thermal Effects	Temp Coeff-Zero: $\pm 0.75\%$ FSO Temp Coeff-Span: $\pm 0.75\%$ FSO
Long Term Stability	$\pm 0.2\%$ FSO/year
Pressure Range	Pressure Range: -14.7psi to 8000psi Over Pressure: $1.5 \times$ FS
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	10×10^6 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: $< (V_s - 12) / 0.02\text{A}$ For Voltage Output: $> 10\text{k}\Omega$
Insulation Resistance	$100\text{M}\Omega @ 50\text{VDC}$
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