

Technical Specification Sheet

KPerm™ Piezo Gauge



The KPerm™ Piezo-resistive permanent gauge delivers continuous pressure, temperature and vibration data to surface, delivered through the Surface Read Out system. It is based on field-proven permanent downhole gauge technology. The gauge is internally and externally EB welded and designed for maximum shock and vibration resistance to enhance reliability and performance.

Ratings & Dimensions

Max temperature	257°F (125°C) / 302°F (150°C)		
Pressure Range	3Kpsi, 5Kpsi 10Kpsi, 15Kpsi		
Outer diameter	0.75 in (19.05 mm)	0.9 in (22.86 mm)	1.19 in (30.23 mm)
Length	8.8 in (223.5 mm)	13.17 in (334.5 mm)	15.73 in (399.5 mm)
Weight	2.0 lbs.		
Materials	Nitronic 50 or Inconel 825		

Hardware Characteristics

Transducer type	Piezo resistive
Acquisition mode	SRO (Surface Read Out) Panel

Pressure Measurements

Pressure Range	3Kpsi, 5Kpsi 10Kpsi, 15Kpsi
Sampling Rate	1 sps
Resolution	0.0003% F.S.
Accuracy	0.024% FS / 0.05% F.S.
Drift	< 3 psi / year

Temperature Measurements

Max temperature	257°F (125°C) / 302°F (150°C)
Resolution	0.005% F.S.
Accuracy	± 1°C

Vibration Measurements (Optional)

Range	0-25 G
Resolution	0.001 G
Accuracy	1%

Electrical Specification

Max data	Continuous data stream
Interface	KPerm SRO
Operating Voltage	24Vdc
Operating Current	12 – 34 mA