

KPerm™ Quartz Downhole Gauge

The KPerm™ Quartz Permanent Downhole Gauge is a permanently installed inside the Probe's solid gauge mandrel. The permanent gauge delivers continuous high accuracy pressure and temperature data to surface where it is displayed real time via a surface readout. The gauge is internally and externally Ebeam welded and designed for maximum shock and vibration resistance to enhance the reliability and performance.



Ratings & Dimensions

Max temperature	302°F (150°C)
Pressure Range	5Kpsi; 10Kpsi; 16Kpsi; 20Kpsi
Outer diameter	1.0 in (25.4 mm)
Length	30 in (762 mm)
Weight	4 lbs
Materials	Nitronic 50 / Inconel 825/Hastelloy (NACE MRO 175)

Hardware Characteristics

Transducer type	Digital quartz
Acquisition mode	Surface Read Out (SRO panel)

Pressure Measurements

Pressure Range	5Kpsi; 10Kpsi; 16Kpsi; 20Kpsi
Sampling Rate	1 sps
Resolution	0.008% psi / sec
Accuracy	0.015% F.S. 5K and 10K 0.02% F.S 16K and 20K
Drift	0.02% F.S/Year

Temperature Measurements

Max temperature	302°F (150°C)
Resolution	0.0018°F (0.001°C)
Accuracy	± 0.449°F (± 0.25°C)

Electrical Specification

Max data	Continuous data stream
Interface	Surface Read Out (SRO panel)
Operating Voltage	24Vdc
Current	12 – 34 mA