

# KPERM™ PIEZO DOWNHOLE GAUGE



**SKU:** SP204-100-400

**Categories:** [Advanced Monitoring](#), [Downhole Gauges](#), [Downhole Instrumentation](#), [KPerm™](#), [Kuster®](#), [Well Monitoring](#)

## PRODUCT DESCRIPTION

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

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

### Hardware Characteristics

<b>Transducer type</b>	Piezo resistive
<b>Acquisition mode</b>	SRO (Surface Read Out) Panel

### Pressure Measurements

<b>Pressure Range</b>	1.5 Kpsi, 3Kpsi, 5Kpsi 10Kpsi, 15Kpsi
<b>Sampling Rate</b>	1 sps
<b>Resolution</b>	0.0003% F.S.
<b>Accuracy</b>	0.024% FS / 0.05% F.S.

**Drift** < 3 psi / year

## Temperature Measurements

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

## Electrical Specification

<b>Data Output Interface</b>	Continuous data stream - MODBUS 485
<b>Operating Voltage</b>	24Vdc
<b>Operating Current</b>	12 - 34 mA

Version Control: 2021.12.14

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***On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.***