



DESCRIPTION

The APS420 is a silicon piezo-resistive permanent down hole gauge with 2 pressure ports that monitors temperature and pressure. The optional accelerometer measures 3 axis vibration. Proprietary technology is used to digitize the pressure, temperature and vibration readings for the ASR200/ASR240 surface readouts. The fully assembled APS420 with the Kemlon Cover and the TEC support cable provide a dual seal at the TEC cable head. The TEC cable head options are 1/8", 1/4" or 4mm OD. The pressure fittings are either 1/8" or 1/4" FNPT or compression F375C. The second side port is 1/16" FNPT.

FEATURES

- 0-150°C Operating Temperature
- Calibrated Over Operating Temperature Range
- Multiple Cable Head Coupling Options
- Hybrid Electronics
- PT100 RTD Temperature Sensor
- Optional 3-Axis Accelerometer
- 2 Pressure Ports
- 3 Pressure Ranges
- 4 readings per second

Specifications

Operating Temperature Range	0°C to 150°C
Maximum Temperature	175°C
Temperature Accuracy	± 1.0°C
Temperature Resolution	0.006°C
Temperature Drift	<0.5°C
Pressure Range	1K, 6K, 10K PSIA
Pressure Accuracy	±0.2% Full Scale
Pressure Resolution	0.18 PSI
Pressure Drift	<0.15% Full Scale Per Year
Accelerometer	X, Y, Z Axis +/- 10G 51,200 Counts per G
Length, Diameter	21", 0.750"
Material	Stainless 316L, Duplex 2205, Inconel 718
Port Configuration	1/8" FNPT, 1/4" FNPT or Autoclave F375C

Ordering Guide

Pressure	Temperature	Material		
		316 SS	2205 Duplex	Inconel 718
1,000 PSIA	150°C	420-01K-S-X-Y	420-01K-D-X-Y	420-01K-I-X-Y
6,000 PSIA		420-06K-S-X-Y	420-06K-D-X-Y	420-06K-I-X-Y
10,000 PSIA		420-10K-S-X-Y	420-10KD-X-Y	420-10K-I-X-Y

X - Pressure Fittings: 1 = F375C, 2 = 1/8" FNPT, 3 = 1/4" FNPT

Y - Accelerometer: 1 = No, 2 = Yes