Model 2204

Bonded Strain Gage Pressure Transducer

Specifications:

Measurand Fluids All fluids compatible with 316 and 347 stainless steel. Pressure media

cavity is entirely fusion welded.

Full Scale Output 3.00 ±0.015 mV open circuit per volt excitation. Calibrated at 10.00

Vdc excitation.

Zero Balance 0.00 ±0.03 mV per volt at +70°F (+21°C).

Within ±0.25% FSO End Point Linearity Within 0.25% FSO Hysteresis Repeatability Within 0.10% FSO

Resolution Infinite.

Natural Frequency Range (PSI) Frequency (kHz)

0-200 4.2 0 - 2504.5 0-300 4.8 0-500 6.3 7.2 0 - 7500-1000 7.5 0-1500 10.5 0-2000 11.3

Proof Pressure Rating

0-200 thru 0-750 PSI ranges: 3 times FS range. 0-1000 thru 0-2000 PSI ranges: 4000 PSI.

Application of proof pressure will not cause any change in

performance characteristics.

Burst

0-200 thru 0-500 PSI ranges: greater than 2500 PSI. Pressure Rating 0-750 PSI range: greater than 3750 PSI 0-1000 thru 0-2000 PSI ranges: greater than 8000 PSI.

Compensated Temperature Range

-30°F to +170°F (-34°C to +77°C). Options available.

Operating Temperature Range

-100°F to +300°F (-73°C to +149°C). Options available

Thermal

Less than ±0.005% FSO per °F over compensated temperature Sensitivity Shift range (±0.009% FSO per °C).

Thermal Zero Shift Less than ±0.010% FSO per °F over compensated temperature range (±0.018% FSO per °C).

Triaxial Mechanical 100 G's applied for 11 milliseconds will not cause change in

Shock

performance characteristics.

Acceleration Error Less than ±0.005% FSO/G along most sensitive axis.

Excitation 10 volts dc or ac rms recommended. 15 volts dc or ac maximum. Input Resistance 350 ±3.5 ohms at +70°F (+21°C). Input circuitry symmetrical

Output Resistance 350 ±5.0 ohms at +70°F (+21°C)

Insulation Greater than 10k megohms at 50 Vdc between all terminals

Resistance in parallel and case at +70°F (+21°C). Pressure 7/16-20 external thread per MS33656-4 is standard. Options available Connection Pressure 0.04 in3 (0.66 ml) including MS33656-4 fitting. Cavity Volume Electrical Stainless steel hermetic receptacle to mate with MS3116-10-6S. Standard wiring: Excitation +A, -D; Signal +B, -C; No Connection E, F. Receptacle Options available. Enclosure Entirely welded and hermetically sealed stainless steel.

Approximately 7.25 ounces (203 g)

Weight

