Model 206

Bonded Strain Gage Pressure Transducer

Specifications:

All fluids compatible with 347 and Carpenter 20 Stainless steel. 347 Measurand Fluids

stainless steel diaphragm is replaceable.

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

Vdc excitation

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

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

Resolution Infinite

Full Scale Output

Frequency (kHz) Natural Frequency Range (PSI)

0 - 20032 0-300 0-500 4.2 0-750 5.5 0-1000 6.7 8.8 0-1500 11.0 0-2000 0-2500 13.0 0-3000 15 0 0-3500 16.0 18.0 0-4000 21.0 0-5000

Proof Pressure Ratino 0-200 thru 0-750 PSI ranges: 3.0 times range. 0-1000 thru 0-2000 PSI ranges: 2.5 times range. 0-2500 thru 0-3500 PSI ranges: 2.0 times range. 0-4000 thru 0-5000 PSI ranges: 1.5 times range. Application of proof pressure will not cause any change in performance characteristics.

Compensated Temperature Range

-30°F to +170°F (-34°C to +77°C). -100°F to +225°F (-73°C to +107°C).

range (±0.009% FSO per °C).

Along most sensitive axis:

Operating Temperature Range

Less than ±0.005% FSO per °F over compensated temperature

Thermal Sensitivity Shift Thermal Zero Shift

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

Triaxial Mechanical Shock

30 G's applied for 11 milliseconds will not cause change in performance characteristics.

Acceleration Error

0-200 PSI range ±0.0145% FSO/G 0-300 PSI range ±0.0130% FSO/G 0-500 PSI range ±0.0100% FSO/G 0-750 PSI range ±0.0070% FSO/G 0-1000 PSI range ±0.0050% FSO/G 0-1500 PSI range ±0.0035% FSO/G 0-2000 PSI range ±0.0030% FSO/G 0-2500 PSI range ±0.0025% FSO/G 0-3000 PSI range ±0.0020% FSO/G 0-3500 PSI range ±0.0015% FSO/G 0-4000 PSI range ±0.0013% FSO/G 0-5000 PSI range ±0.0010% FSO/G

Excitation Input Resistance

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

Greater than 10k megohms at 50 Vdc between all terminals

Output Resistance

Insulation

Resistance in parallel and case at +70°F (+21°C).

350 ±5.0 ohms at +70°F (+21°C).

7/16-20 internal thread per MS33649-4 is standard. Pressure

Options available. Connection

0.08 in3 (1.31 ml) excluding MS33649-4 fitting Pressure Cavity Volume

Stainless steel receptacle to mate with MS3106-14-2S. Electrical

Receptacle Standard wiring: Excitation +A, -D; Signal +B, -C.

Options available.

Entire housing and pressure cavity of stainless steel. All electrical Enclosure

components sealed against adverse environmental conditions.

Approximately 53 ounces (1.5 kg). Weight

