Model 2210

Bonded Strain Gage Pressure Transducer

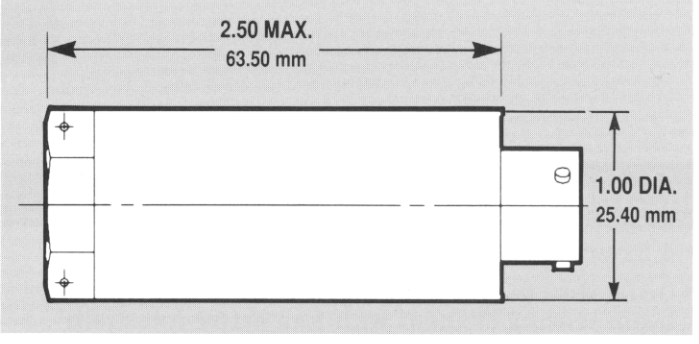
Specifications:

Measurand Fluids	0-100 thru 0-2000 PSI ranges: all fluids compatible with 316 and 347 stainless steel. 0-3000 thru 0-20,000 PSI ranges: all fluids compatible with 17-4 PH stainless steel.
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).
End Point Linearity	Within ±0.20% FSO.
Hysteresis	Within 0.20% FSO.
Repeatability	Within 0.10% FSO.
Resolution	Infinite.

Natural Frequency

Range(PSI)	Frequency (kHz)	Range(PSI)	Frequency (kHz)
0-100	3.0	0-2000	32.0
0-150	6.1	0-3000	59.0
0-200	7.0	0-4000	68.0
0-250	7.6	0-5000	76.0
0-300	8.5	0-7500	90.0
0-500	11.0	0-10,000	108.0
0-750	15.0	0-15,000	135.0
0-1000	18.0	0-20,000	283.0
0-1500	25.0		

Proof Pressure Rating	0-100 PSI range: 500 PSI. 0-150 thru 0-500 PSI ranges: 1500 PSI. 0-750 thru 0-1500 PSI ranges: 3000 PSI. 0-2000 thru 0-20,000 PSI ranges: 1.5 times FS range. Application of proof pressure will not cause any change in performance characteristics.
Burst Pressure Rating	0-100 PSI range: 1500 PSI. 0-150 thru 0-2000 PSI ranges: 4500 PSI. 0-3000 thru 0-20,000 PSI ranges: 3.0 times range.
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).
Thermal Sensitivity Shift	Less than ±0.005% FSO per °F over compensated temperature 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 Shock	1000 G's applied for 1 millisecond or 100 G's applied for 11 milliseconds will not change performance characteristics.
Acceleration Error	Along most sensitive axis: 0-100 PSI range ..... ±0.020% FSO/G 0-150 PSI range ..... ±0.007% FSO/G 0-200 PSI range ..... ±0.006% FSO/G 0-250 PSI range ..... ±0.005% FSO/G 0-300 PSI range ..... ±0.004% FSO/G 0-500 PSI range ..... ±0.002% FSO/G 0-750 thru 0-20,000 PSI ranges error is less than ±0.0015% FSO/G.
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 Resistance	Greater than 10k megohms at 50 Vdc between all terminals in parallel and case at +70°F (+21°C).
Pressure Connection	0-100 thru 0-10,000 PSI ranges....7/16-20 internal thread per MS33649-4 pressure fitting. 0-15,000 thru 0-20,000 PSI ranges....AE F250-C*, 9/16-18 UNF thread. Options available.
Pressure Cavity Volume	0.008 in^3 (0.13 ml) excluding fitting.
Electrical Receptacle	Stainless steel hermetic receptacle to mate with MS3116-10-6S. Standard wiring: Excitation +A, -D; Signal +B, -C; No Connection E, F. Options available.
Enclosure	Entirely welded and hermetically sealed stainless steel.
Weight	Approximately 4.5 ounces (126 g).



Warranty:

Teledyne Taber, herein after designated as the Company, warrants that any part or parts of the product which, under normal operating conditions in the plant of the original purchaser thereof, proves defective in material or workmanship within one year from the date of shipment by the Company, as determined by an inspection by the Company, will be repaired or replaced free of charge provided that the original purchaser promptly sends to the Company the defective material, transportation charges prepaid, with notice of the defect and establishes that the product has been properly installed, maintained and operated within the limits of rated and normal usage. Replacement parts will be shipped F.O.B. the Teledyne Taber plant. The terms of this Warranty do not in any way extend to part or parts of the product thereof which has a life, under normal usage, inherently shorter than the one year indicated above. Said Warranty in respect to replacement of defective parts and any such additional warranties express or implied, including any implied warranty of merchantability, or fitness for any particular purpose.

Warranty specifications and qualitative calibration data, as supplied with each transducer, are based on tests performed on and values obtained with N.I.S.T. traceable laboratory standards and test equipment of Teledyne Taber.

Teledyne Taber reserves the right to make changes without notice at any time in materials, specifications and models, and also to discontinue models.