

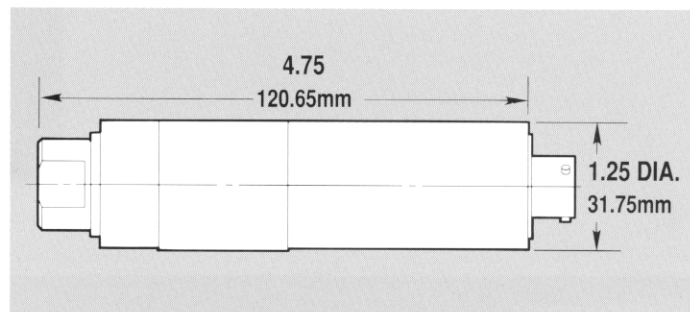
Model 2404

Bonded Strain Gage Pressure Transducer

Specifications:

<i>Measurand Fluids</i>	All fluids compatible with 316 and 347 stainless steel. Pressure media cavity is entirely fusion welded.	
<i>Full Scale Output</i>	5.000 \pm 0.050 volts dc for 50k ohm load or greater.	
<i>Zero Balance</i>	0.000 \pm 0.050 volts dc at +70°F (+21°C).	
<i>End Point Linearity</i>	Within \pm 0.25% FSO.	
<i>Hysteresis</i>	Within 0.25% FSO.	
<i>Repeatability</i>	Within 0.10% FSO.	
<i>Resolution</i>	Infinite.	
<i>Natural Frequency</i>	Range(PSI)	Frequency (kHz)
	0-200	4.2
	0-250	4.5
	0-300	4.8
	0-500	6.3
	0-750	7.2
	0-1000	7.5
	0-1500	10.5
	0-2000	11.3
<i>Proof Pressure Rating</i>	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.	
<i>Burst Pressure Rating</i>	0-200 thru 0-500 PSI ranges: greater than 2500 PSI. 0-750 PSI range: greater than 3750 PSI. 0-1000 thru 0-2000 PSI ranges: greater than 8000 PSI.	
<i>Compensated Temperature Range</i>	-30°F to +170°F (-34°C to +77°C). Options available.	
<i>Operating Temperature Range</i>	-65°F to +250°F (-54°C to +121°C).	
<i>Thermal Sensitivity Shift</i>	Less than \pm 0.005% FSO per °F over compensated temperature range (\pm 0.009% FSO per °C).	
<i>Thermal Zero Shift</i>	Less than \pm 0.010% FSO per °F over compensated temperature range (\pm 0.018% FSO per °C).	
<i>Triaxial Mechanical Shock</i>	30 G's applied for 11 milliseconds will not cause change in performance characteristics.	
<i>Acceleration Error</i>	\pm 0.005% FSO/G along most sensitive axis.	
<i>Excitation</i>	20 to 36 volts dc unregulated. Reverse polarity protected. \pm 100 volt 10 microsecond spikes will not cause permanent damage.	
<i>Current Drain</i>	35 mAdc typical.	
<i>Output Impedance</i>	25 ohms typical.	
<i>Output Noise</i>	Less than 15 millivolts peak to peak at less than 300 kHz.	
<i>Insulation Resistance</i>	Greater than 1000 megohms at 50 Vdc between all terminals in parallel and case at +70°F (+21°C).	

<i>DC Isolation</i>	Greater than 1000 megohms at 50 Vdc from excitation to signal output terminals at +70°F (+21°C).
<i>Pressure Connection</i>	7/16-20 internal thread per MS33649-4. Options available.
<i>Pressure Cavity Volume</i>	0.04 in ³ (0.656 ml) excluding pressure fitting.
<i>Electrical Receptacle</i>	Stainless steel hermetic receptacle to mate with MS3116-10-6S. Standard wiring: Excitation +A, -D; Signal +B, -C; No Connection E, F. Options available.
<i>Enclosure</i>	Entirely welded and hermetically sealed stainless steel.
<i>Weight</i>	Approximately 12.25 ounces (343 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.