

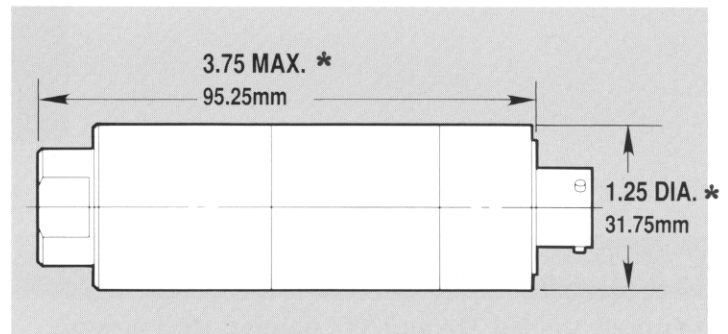
Model 2415

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 ±0.050 Vdc for 50k ohm load or greater.	
<i>Zero Balance</i>	0.000 ±0.050 Vdc at +70°F (+21°C).	
<i>End Point Linearity</i>	Within ±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 (Hz)
	0-10	1000.0
	0-15	1000.0
	0-20	1200.0
	0-25	1300.0
	0-30	1400.0
	0-50	2000.0
	0-75	2500.0
	0-100	3000.0
<i>Proof Pressure Rating</i>	Application of 500 PSI will not cause changes in performance characteristics.	
<i>Burst Pressure Rating</i>	Greater than 1500 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 ±0.005% FSO per °F over compensated temperature range (±0.009% FSO per °C).	
<i>Thermal Zero Shift</i>	Less than ±0.010% FSO per °F over compensated temperature range (±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>	Along most sensitive axis: 0-10 PSI range ±0.20% FSO/G 0-15 PSI range ±0.16% FSO/G 0-20 PSI range ±0.12% FSO/G 0-25 PSI range ±0.09% FSO/G 0-30 PSI range ±0.08% FSO/G 0-50 PSI range ±0.04% FSO/G 0-75 PSI range ±0.03% FSO/G 0-100 PSI range ±0.02% FSO/G	
<i>Excitation</i>	20-36 volts dc unregulated. Reverse polarity protected. ±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 mV 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 MS33649-4 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 8 ounces (224g).



*UPDATE:

The diameter and length of the body on the model 2415 has changed. The new diameter is now 1.55" (39.37mm) not 1.25" (31.75mm), and the Length is now 3.20" (81.28mm) not 3.75" (95.25mm) MAX as previously built and shown above. Contact Tabers Office for verification on all critical dimensions.