

Model 2211

Bonded Strain Gage Pressure Transducer

Specifications:

<i>Measurand Fluids</i>	0-15 thru 0-2000 PSI ranges: all fluids compatible with 316 and 347 stainless steel. 0-3000 thru 0-30,000 PSI ranges: all fluids compatible with 17-4 PH stainless steel.			
<i>Full Scale Output</i>	3.00 ±0.015 mV open circuit per volt excitation. Calibrated at 10.00 Vdc excitation.			
<i>Zero Balance</i>	0.00 ±0.03 mV per volt at +70°F (+21°C).			
<i>End Point Linearity</i>	Within ±0.20% FSO.			
<i>Hysteresis</i>	Within 0.20% FSO.			
<i>Repeatability</i>	Within 0.10% FSO.			
<i>Resolution</i>	Infinite.			
<i>Natural Frequency</i>	Range (PSI)	Frequency (kHz)	Range (PSI)	Frequency (kHz)
	0-15	1.0	0-2000	32.0
	0-25	1.3	0-3000	59.0
	0-30	1.4	0-5000	76.0
	0-50	2.0	0-7500	90.0
	0-75	2.5	0-10,000	200.0
	0-100	3.0	0-15,000	245.0
	0-200	4.0	0-20,000	283.0
	0-500	11.0	0-25,000	317.0
	0-1000	18.0	0-30,000	347.0
	0-1500	25.0		
<i>Proof Pressure Rating</i>	0-15 thru 0-200 PSI range: 500 PSI. 0-500 PSI range: 1500 PSI. 0-1000 thru 0-1500 PSI ranges: 3000 PSI. 0-2000 thru 0-30,000 PSI ranges: 1.5 times FS range. Application of proof pressure will not cause any change in performance characteristics.			
<i>Burst Pressure Rating</i>	0-15 thru 0-200 PSI ranges: greater than 1500 PSI. 0-500 thru 0-2000 PSI ranges: greater than 4500 PSI. 0-3000 thru 0-30,000 PSI ranges: greater than 3.0 times FS range.			
<i>Compensated Temperature Range</i>	-65°F to +250°F (-54°C to +121°C). Options available.			
<i>Operating Temperature Range</i>	-100°F to +300°F (-73°C to 149°C). Options available.			
<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: 0-15 PSI range ±0.16% 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 0-200 PSI range ±0.006% FSO/G 0-500 PSI range ±0.002% FSO/G 0-1000 thru 0-30,000 PSI ranges error is less than ±0.0015% FSO/G.			
<i>Excitation</i>	10 volts dc or ac rms recommended. 15 volts dc or ac maximum.			
<i>Input Resistance</i>	350 ±3.5 ohms at +70°F (+21°C). Input circuitry symmetrical.			

<i>Output Resistance</i>	350 ±5.0 ohms at +70°F (+21°C).		
<i>Insulation Resistance</i>	Greater than 10k megohms at 50 Vdc between all terminals in parallel and case at +70°F (+21°C).		
<i>Pressure Connection</i>	0-15 thru 0-10,000 PSI ranges....7/16-20 external thread per MS33656-4 pressure fitting. 0-15,000 thru 0-30,000 PSI ranges....AE F250-C*, 9/16-18 UNF internal thread. Options available.		
<i>Pressure Cavity Volume</i>	Range (PSI)	Volume in ³	(ml)
	0-15 thru 0-200	0.031	(0.51)
	0-500 thru 0-2000	0.027	(0.44)
	0-3000 thru 0-10,000	0.034	(0.56)
	0-15,000 thru 0-30,000	0.017	(0.28)
	0-15 thru 0-10,000 PSI ranges include MS33656-4 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 Weight</i>	Entirely welded and hermetically sealed stainless steel. Approximately 4.25 ounces (119 g).		

