



Model 2424

SPECIFICATIONS

Pressure Ranges	0-10, 0-15, 0-20, 0-25, 0-30, 0-50, 0-75, 0-100 PSIA, 0-30, 0-50, 0-75, 0-100 PSIS (14-7 PSIA REF.)																
Measurand Fluids	All Fluids compatible with Carpenter 20 and 347 stainless steel.																
Full Scale Output	5.00 \pm 0.050 volts DC for 10K ohm load or greater. Calibrated with 50K ohm load.																
Zero Balance	0.00 \pm 0.050 volts DC at +70°F \pm 10% FSO Internal Adjustment.																
End Point Linearity	Within \pm 0.25% FSO.																
Hysteresis	Less than 0.25% FSO.																
Repeatability	Within 0.10% FSO.																
Resolution	Infinitely continuous.																
Natural Frequency	<table border="1"> <tr> <td>0-10</td> <td>500 Hz</td> <td>0-30</td> <td>1500 Hz</td> </tr> <tr> <td>0-15</td> <td>750 Hz</td> <td>0-50</td> <td>2000 Hz</td> </tr> <tr> <td>0-20</td> <td>1000 Hz</td> <td>0-75</td> <td>2500 Hz</td> </tr> <tr> <td>0-25</td> <td>1300 Hz</td> <td>0-100</td> <td>3000 Hz</td> </tr> </table>	0-10	500 Hz	0-30	1500 Hz	0-15	750 Hz	0-50	2000 Hz	0-20	1000 Hz	0-75	2500 Hz	0-25	1300 Hz	0-100	3000 Hz
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Proof Pressure	Application of 500 PSI will not cause changes in performance characteristics.																
Burst Pressure Rating	Greater than 1500 PSI.																
Compensated Temperature Range	-30°F to +170°F is standard. Options Available.																
Operating Temperature Range	-65°F to +250°F.																
Thermal Sensitivity Shift	Less than \pm 0.005% FSO per °F over C.T.R.																
Thermal Zero Shift	Less than \pm 0.01% FSO per °F over C.T.R.																
Triaxial Mechanical Shock	30 G's applied for 11 milliseconds will not cause change in performance characteristics.																

Triaxial Acceleration Error	<table border="1"> <tr> <td>Along most sensitive Axis</td> <td></td> </tr> <tr> <td>0-10</td> <td>\pm0.16% FSO per G</td> </tr> <tr> <td>0-20</td> <td>\pm0.12% FSO per G</td> </tr> <tr> <td>0-25</td> <td>\pm0.09% FSO per G</td> </tr> <tr> <td>0-30</td> <td>\pm0.08% FSO per G</td> </tr> <tr> <td>0-50</td> <td>\pm0.04% FSO per G</td> </tr> <tr> <td>0-75</td> <td>\pm0.03% FSO per G</td> </tr> <tr> <td>0-100</td> <td>\pm0.02% FSO per G</td> </tr> </table>	Along most sensitive Axis		0-10	\pm 0.16% FSO per G	0-20	\pm 0.12% FSO per G	0-25	\pm 0.09% FSO per G	0-30	\pm 0.08% FSO per G	0-50	\pm 0.04% FSO per G	0-75	\pm 0.03% FSO per G	0-100	\pm 0.02% FSO per G
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Excitation	20-36 volts DC unregulated. Reverse polarity protected. \pm 100 volts 10 microseconds pulses will not cause damage.																
Current Drain	Less than 35 mdc.																
Output Impedance	Less than 25 Ohms.																
Output Noise	Less than 15 millivolts peak to peak at less than 300 KHz.																
Insulation Resistance	Greater than 1000 megohms at 50 VDC between all terminals in parallel and case at +70°F.																
DC Isolation	Greater than 1000 megohms at 50 VDC from excitation to signal output terminals.																
Pressure Fitting	7/16-20 internal thread per MS33649-4. Options Available.																
Pressure Cavity Volume	0.08 cubic inches excluding pressure fitting.																
Electrical Receptacle	Stainless steel receptacle to mate with MS3106E-14-2S. Standard wiring excitation +A, -D. Signal +B, -C. Options Available.																
Enclosure	Entire housing and pressure cavity of stainless steel. All electrical components sealed against adverse environmental conditions.																
Weight	64 ounces.																

Terminology in accordance with ISA Standard S37.3.