



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 reference).
Measurand Fluids	All fluids compatible with Carpenter 20 and 347 stainless steel.
Full Scale Output	5.00 ± 0.050 volts DC for 10K ohm load or greater. Calibrated with 50K ohm load.
Zero Balance	0.000 ± 0.050 volts DC at +70°F.
End Point Linearity	Within ± 0.25% FSO.
Hysteresis	Less than 0.25% FSO.
Repeatability	Within ± 0.10% FSO.
Resolution	Infinite.
Natural Frequency	0-10 PSI range 0.75KHz 0-15 PSI range 0.75KHz 0-20 PSI range 1.0KHz 0-25 PSI range 1.3KHz 0-30 PSI range 1.5KHz 0-50 PSI range 2.0KHz 0-75 PSI range 2.5KHz 0-100 PSI range 3.0KHz
Proof Pressure	Application of 500 PSI will not cause change in performance characteristics.
Burst Pressure	Greater than 1500 PSI.
Compensated Temperature Range	-30°F to +170°F. Options available.
Operating Temperature Range	-100°F to +250°F.
Thermal Sensitivity Shift	Less than ± 0.005% FSO per °F over compensated temperature range.
Thermal Zero Shift	Less than ± 0.010% FSO per °F over compensated temperature range.

Triaxial Mechanical Shock	30 G's applied for 11 milliseconds will not cause change in performance characteristics.
Triaxial Acceleration Error	0-10 PSI range ± 0.20% FSO per G 0-15 PSI range ± 0.16% FSO per G 0-20 PSI range ± 0.12% FSO per G 0-25 PSI range ± 0.09% FSO per G 0-30 PSI range ± 0.08% FSO per G 0-50 PSI range ± 0.04% FSO per G 0-75 PSI range ± 0.03% FSO per G 0-100 PSI range ± 0.02% FSO per G
Excitation	20 to 36 volts DC unregulated. Reverse polarity protected. ± 100 volt 10 micro-second spikes will not cause permanent damage.
Current Drain	Less than 35 mADC.
Ripple Voltage	Less than 0.10% FSO peak to peak across one ohm resistor in series with power source.
Output Impedance	Less than 25 ohms.
Output Noise	Less than 15 millivolts peak to peak.
Insulation Resistance	Greater than 1000 megohms at 50 VDC between all terminals in parallel and case at a temperature of +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 MS-33649-4 is standard. Options available.
Pressure Cavity Volume	0.04 cubic inches excluding pressure fitting.
Electrical Receptacle	Mates with Bendix PCS06E-8-4S(SR). Standard Wiring: Excitation +A, -D; Signal +B, -C. Options available.
Enclosure	Housing and pressure cavity of stainless steel.
Weight	Less than 12 ounces.

Terminology in accordance with ISA Recommended Practice RP37-3.