



SPECIFICATIONS

Pressure Range	±50, ±75, ±100, ±200, ±300, ±400, ±500 PSID
Measurand Fluids	All fluids compatible with Carpenter 20 and 347 S.S. with no internal filling fluid.
Full Scale Output	±5.00 ±0.050 volts DC for 10K Ohm load or greater. Calibrated at 1 atmosphere reference pressure and 50K Ohm load.
Zero Balance	0.00 ±0.100 volts DC at +70°F.
End Point Linearity	Within ±0.35% ±50 PSID Within ±0.50% ±75 PSID Within ±0.75% ±100 PSID Within ±0.50% ±200, ±300 PSID Within ±0.35% ±500 PSID
Hysteresis	Less than ±0.25% FSO.
Repeatability	Within ±0.10% FSO.
Toggle	Less than ±0.5% FSO shift in zero after pressurization to 100% rated pressure from positive to negative side.
Natural Frequency	Greater than 500 HZ.
Rated Line Pressure	Application of 1000 PSI to either port separately or both ports together with the following characteristics
Zero Shift With Line Pressure (Both Ports Equal Pressure)	Less than 1.0% FSO.
Zero Shift After Line Pressure (Single Port Pressurization)	Less than 2.0% FSO.
Sensitivity Shift with Line Pressure	Reduction in FSO when used above 1 atmosphere reference pressure 50 PSID Range 4.50% FSO per 100 PSI 75 PSID Range 3.50% FSO per 100 PSI 100 PSID Range 2.50% FSO per 100 PSI 200 PSID Range 1.30% FSO per 100 PSI 300 PSID Range 0.85% FSO per 100 PSI 400 PSID Range 0.70% FSO per 100 PSI 500 PSID Range 0.60% FSO per 100 PSI

Burst Pressure	Greater than: ±1500 PSI.
Compensated Temperature Range	-30 to +170°F.
Operating Temperature Range	-65 to +225°F.
Thermal Sensitivity Shift	Less than ±0.01% 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 changes in performance characteristics.
Excitation	20 to 36 volts DC unregulated. Reverse polarity protected. ±100 volt 10 microsecond spikes will not cause permanent damage.
Current Drain	Less than 35 ma D.C.
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 the case at a temperature of 70°F.
DC Isolation	Greater than 1000 megohms at 50 VDC from excitation and signal output terminals.
Pressure Fitting	7/16-20 internal thread per MS33649-4 is standard on both sides.
Electrical Receptacle	Mates with Bendix PCS06E-8-4S(SR) Standard Wiring: Excitation +A, -D; Signal +B, -C.
Enclosure	Entire housing and pressure cavity is of stainless steel. All electrical components are sealed against environmental conditions.
Weight	Less than 36 ounces.

Terminology in accordance with ISA Recommended Practice RP37-3.