



(Model 185)

## SPECIFICATIONS

<b>Pressure Ranges</b>	0-200, 0-250, 0-300, 0-500, 0-750, 0-1000, 0-1500, 0-2000, 0-3000 PSIA or PSIS (14.7 PSIA reference).																											
<b>Measurand Fluids</b>	All fluids compatible with Carpenter 20 and 347 stainless steel.																											
<b>Full Scale Output</b>	3.0 ± 0.015 MV open circuit per volt excitation. Calibrated at 10.00 VDC excitation.																											
<b>Zero Balance</b>	0.00 ± 0.03 MV per volt at +70°F.																											
<b>End Point Linearity</b>	Within ± 0.25% FSO.																											
<b>Hysteresis</b>	Less than 0.25% FSO.																											
<b>Repeatability</b>	Within 0.10% FSO.																											
<b>Resolution</b>	Infinite.																											
<b>Natural Frequency</b>	<table border="0"> <tr><td>0-200 PSI range</td><td>.....</td><td>4.0KHz</td></tr> <tr><td>0-250 PSI range</td><td>.....</td><td>4.5KHz</td></tr> <tr><td>0-300 PSI range</td><td>.....</td><td>4.8KHz</td></tr> <tr><td>0-500 PSI range</td><td>.....</td><td>6.3KHz</td></tr> <tr><td>0-750 PSI range</td><td>.....</td><td>7.2KHz</td></tr> <tr><td>0-1000 PSI range</td><td>.....</td><td>7.5KHz</td></tr> <tr><td>0-1500 PSI range</td><td>.....</td><td>10.5KHz</td></tr> <tr><td>0-2000 PSI range</td><td>.....</td><td>11.3KHz</td></tr> <tr><td>0-3000 PSI range</td><td>.....</td><td>12.0KHz</td></tr> </table>	0-200 PSI range	.....	4.0KHz	0-250 PSI range	.....	4.5KHz	0-300 PSI range	.....	4.8KHz	0-500 PSI range	.....	6.3KHz	0-750 PSI range	.....	7.2KHz	0-1000 PSI range	.....	7.5KHz	0-1500 PSI range	.....	10.5KHz	0-2000 PSI range	.....	11.3KHz	0-3000 PSI range	.....	12.0KHz
0-200 PSI range	.....	4.0KHz																										
0-250 PSI range	.....	4.5KHz																										
0-300 PSI range	.....	4.8KHz																										
0-500 PSI range	.....	6.3KHz																										
0-750 PSI range	.....	7.2KHz																										
0-1000 PSI range	.....	7.5KHz																										
0-1500 PSI range	.....	10.5KHz																										
0-2000 PSI range	.....	11.3KHz																										
0-3000 PSI range	.....	12.0KHz																										
<b>Proof Pressure</b>	Application of 3 times rated pressure range or 6000 PSI, whichever is less, will not cause change in performance characteristics.																											
<b>Burst Pressure Rating</b>	Greater than 5 times rated pressure range or 8000 PSI whichever is less.																											
<b>Compensated Temperature Range</b>	-30°F to +170°F. Options available.																											
<b>Operating Temperature Range</b>	-100°F to +300°F.																											
<b>Thermal Sensitivity Shift</b>	Less than ± 0.005% FSO per °F over compensated temperature range.																											

<b>Thermal Zero Shift</b>	Less than ± 0.010% FSO per °F over compensated temperature range.																											
<b>Triaxial Mechanical Shock</b>	30 G's applied for 11 milliseconds will not cause change in performance characteristics.																											
<b>Acceleration Error</b>	Along most sensitive axis: ± 0.005% FSO per G.																											
<b>Excitation</b>	10 volts DC or AC recommended. 15 volts DC or AC maximum.																											
<b>Input Resistance</b>	350 ± 3.5 ohms resistive at +70°F. Input circuitry symmetrical.																											
<b>Output Resistance</b>	350 ± 5.0 ohms.																											
<b>Insulation Resistance</b>	Greater than 10,000 megohms at 50 VDC between all terminals in parallel and case at +70°F.																											
<b>Pressure Connection</b>	7/16-20 internal thread per MS33649-4 is standard. Options available.																											
<b>Pressure Cavity Volume</b>	<table border="0"> <tr><td>0-200 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-250 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-300 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-500 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-750 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-1000 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-1500 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-2000 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> <tr><td>0-3000 PSI range</td><td>.....</td><td>0.04 cu. in.</td></tr> </table>	0-200 PSI range	.....	0.04 cu. in.	0-250 PSI range	.....	0.04 cu. in.	0-300 PSI range	.....	0.04 cu. in.	0-500 PSI range	.....	0.04 cu. in.	0-750 PSI range	.....	0.04 cu. in.	0-1000 PSI range	.....	0.04 cu. in.	0-1500 PSI range	.....	0.04 cu. in.	0-2000 PSI range	.....	0.04 cu. in.	0-3000 PSI range	.....	0.04 cu. in.
0-200 PSI range	.....	0.04 cu. in.																										
0-250 PSI range	.....	0.04 cu. in.																										
0-300 PSI range	.....	0.04 cu. in.																										
0-500 PSI range	.....	0.04 cu. in.																										
0-750 PSI range	.....	0.04 cu. in.																										
0-1000 PSI range	.....	0.04 cu. in.																										
0-1500 PSI range	.....	0.04 cu. in.																										
0-2000 PSI range	.....	0.04 cu. in.																										
0-3000 PSI range	.....	0.04 cu. in.																										
<b>Electrical Receptacle</b>	Hermetic Bendix Pygmy Types PCIH-10-6P is standard. Standard wiring: Excitation +D, -C & F; Signal +A, -B & E. Options available.																											
<b>Enclosure</b>	Entire housing and pressure cavity of stainless steel. All electrical components sealed against adverse environmental conditions.																											
<b>Weight</b>	Less than 9 ounces.																											

Terminology in accordance with ISA Standard S37.3.