The **210-60-090 Series** is well suited for differential pressure measurement at full system pressure in applications such as actuator position feedback signals from servo valves to automotive and aviation testing environments.

The **210-60-090 Series** is designed to provide accurate and dependable differential measurements and has a very low thermal shift of ±0.01% of full scale per °F in the toughest environments.

The **210-60-090 Series** is offered in a small/light weight manifold style mounting package for applications where space is limited.

**Features:**
- Pressure Range: 0-500 to 0-5,000 PSID.
- Operating Temperature: -65°F to +250°F (-53°C to +121°C).
- Thermal Zero Shift of ±0.01% of Full Scale per °F.
- Differential Pressure Measurement at Full System Pressure.
- High Shock & Vibration Design.
- Media Compatibility: 300 Series CRES, Buna-N-Rubber, 2024-T351 AL & 15-5 PH CRES.

**Applications:**
- Test Stands & Measurements.
- Robotic Hydraulic Controls.
- Industrial Process Systems.
- Positioning Systems.
- Valve Pressure Control.

**Options:**
- Electrical connections.
- Pressure Port Adapters.

Proudly Represented By:
210-60-090 Series Specifications:

Typical Performance: The following parameters are established from production units. Calibration Certificates are supplied with each unit.

Performance:
- Thermal Zero Shift: ± 0.01% of Full Scale (F.S.) per °F maximum.
- Thermal Sensitivity Shift: ± 0.01% of Full Scale per °F maximum.
- Full scale (F.S.) Sensitivity: $P_1 = 2.0 \text{ mV/V} \pm 10\%$, $P_2 = P_1 \pm 2.0\%$ of $P_1$.
- Output at Zero Differential Pressure: $0 \pm 5\% \text{ of F.S.}$.
- Static Error Band (Non-Linearity and Hysteresis Combined): See Pressure Table
- Repeatability: Within $\pm 0.10\%$ of F.S.

Environmental:
- Environmental: Error due to combined effect of shock, vibration and acceleration shall be less than $0.01 \%$ of F.S. per G.
  - Acceleration: 20 G's per MIL-G-810, method 513.1, Procedure I.
  - Shock: 30 G's Per Mil-Std-810, Method 516.1, Procedure IV.
- Operating Temperature Range: -65°F to +250°F (-53°C to +121°C).
- Compensated Temperature Range: -25°F to +250°F (-31°C to +121°C).

Mechanical:
- Pressure Range (Standard Products): Lower & Higher pressure ranges are available upon request.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Pressure Range PSID</th>
<th>Proof Pressure PSID</th>
<th>Burst Pressure PSID</th>
<th>Static Error Band (BSLM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>210-60-090-01</td>
<td>± 500</td>
<td>± 750</td>
<td>± 1,250</td>
<td>± 0.35% F.S.</td>
</tr>
<tr>
<td>210-60-090-02</td>
<td>± 1,000</td>
<td>± 1,500</td>
<td>± 2,500</td>
<td>± 0.35% F.S.</td>
</tr>
<tr>
<td>210-60-090-03</td>
<td>± 1,500</td>
<td>± 2,250</td>
<td>± 3,750</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-04</td>
<td>± 2,000</td>
<td>± 3,000</td>
<td>± 5,000</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-05</td>
<td>± 2,500</td>
<td>± 3,750</td>
<td>± 6,250</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-06</td>
<td>± 3,000</td>
<td>± 4,500</td>
<td>± 7,500</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-07</td>
<td>± 3,500</td>
<td>± 5,250</td>
<td>± 8,750</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-08</td>
<td>± 4,000</td>
<td>± 6,000</td>
<td>± 10,000</td>
<td>± 0.25% F.S.</td>
</tr>
<tr>
<td>210-60-090-09</td>
<td>± 5,000</td>
<td>± 7,500</td>
<td>± 12,500</td>
<td>± 0.25% F.S.</td>
</tr>
</tbody>
</table>

Operating Media: Any compatible with 300 series CRES, Buna-N-Rubber, 2024-T351 AL and 15-5 PH CRES.

Pressure Fitting: Manifold mounting per MIL-G-5514, Type II, Class 2. O-rings (2) MS28775-008 are supplied with each transducer.

Electrical:
- Excitation: 10 VDC.
- Input Resistance: $350 \pm 70 \Omega$.
- Output Resistance: $350 \pm 35 \Omega$.

Connections

<table>
<thead>
<tr>
<th>PIN</th>
<th>FUNCTION</th>
<th>PIN</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>+ EXCITATION</td>
<td>B</td>
<td>+ SIGNAL*</td>
</tr>
<tr>
<td>C</td>
<td>- SIGNAL*</td>
<td>D</td>
<td>- EXCITATION</td>
</tr>
</tbody>
</table>

* Polarity as shown when pressure at P1 is greater than pressure at P2.

Datasheet: 210-60-090-DS_REV-E