MODEL 1002 / 1003-IA

FEATURES:

• G ½” flush diaphragm pressure port
  0.25% FSO accuracy
• Compact 1.25” diameter
• Rugged, all welded construction
• IP65 rated housing
• Low Cost, High Reliability
• Compatible with wide range of liquids

APPLICATIONS:

• Paint systems
• Adhesives
• Pharmaceuticals
• Chemicals
• Process Control

PRODUCT OVERVIEW:

The Model 1002/1003-IA from GP:50 is an industrial grade OEM pressure transducer featuring a G ½” flush corrosion-resistant pressure port. This flush port is specifically designed for high viscous liquids that can plug a standard recessed process port. Units are available with choice of 4-20 mA, 0 to 5 Vdc, 1 to 5 Vdc, or 0-10 Vdc output, as well as various electrical connections.

FIELD OPTIONS:

• Flanged process ports
• Optional electrical connections
• Hastelloy C275 wetted parts
DIMENSIONAL DRAWING
All dimensions are in inches (mm)

STANDARD WIRING

<table>
<thead>
<tr>
<th>WIRE</th>
<th>MODEL 1002-IA</th>
<th>MODEL 1003-IA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/WHT</td>
<td>+SIG</td>
<td>N/C</td>
</tr>
<tr>
<td>2/BLK</td>
<td>-EXC/SIG</td>
<td>-EXC/SIG</td>
</tr>
<tr>
<td>3/RED</td>
<td>+EXC</td>
<td>+EXC/SIG</td>
</tr>
<tr>
<td>4/SHEILD</td>
<td>N/C</td>
<td>N/C</td>
</tr>
</tbody>
</table>

Wiring shown for DIN connector only

REFERENCE SPECIFICATIONS

ELECTRICAL

- Supply Voltage: 12-32 Vdc
- Output Signal:
  - 1002: 0-5Vdc, 1-5Vdc, 0-10 Vdc optional
  - 1003: 4-20 mA
- Output Impedance: 5k ohms
- Response Time: <5 ms

STATIC ACCURACY (BFSL) (Hysteresis, Non-linearity & Repeatability @ +70 °F)

- Standard: ±0.25 % FSO
- Zero Balance: ±1.0 % FSO
- Span: ±2.0 % FSO

MATERIALS OF CONSTRUCTION

- Wetted Parts: 316 stainless steel and 17-4 stainless steel
- Housing: 316L stainless steel

MECHANICAL

- Process connection: G 1/2 standard (other options available)
- Proof Pressure: 2 X FSO
- Burst Pressure: 5 X FSO
- Weight: < 4 oz (113 g)

PRESSURE RANGES

- 0-2 to 0-3000 PSI, gauge, sealed gauge, and absolute pressure reference available

THERMAL SPECIFICATIONS

- Compensated: 32° F to 158° F (0- 70 C)
- Operating Temperature: -40° F to 185° F (-40 – 85 C)
- Storage: -40° F to 250° F (-40 – 125 C)
- Effect on Zero/Span: ±1.5% FSO/100°F

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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