MODEL 1171-LDPE

FEATURES:

- One piece sensor design
- External G¾, G½ & G⅜ process connections
- Magnetically coupled adjustment
- Hermetically sealed
- Process temperature rated to +350 °F (+175 °C)

APPLICATIONS:

- Low-density polyethylene (LDPE)
- Steam cracking furnaces
- Ethylene gas production
- High-pressure reactors

PRODUCT OVERVIEW:

Model 1171-LDPE from GP:50 is a high-pressure, high-temperature process transmitter. Its process connections are directly compatible with all G-type threads or lens seals, as well as high pressure coned connections. A highly robust transmitter design incorporates an integral high-temperature sensor that further offers minimal thermal shift over a broad temperature range. Its single piece, non-welded construction eliminates weld failure risks.
**GP:50 MODEL 1171-LDPE**

**DIMENSIONAL DRAWING**
All dimensions are in inches (mm)

**REFERENCE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th>MECHANICAL</th>
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<tbody>
<tr>
<td>Voltage Input: 9 to 36 Vdc</td>
<td>Process connection: G ¾&quot;, G½&quot; or G⅞&quot; (M)</td>
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<tr>
<td>Output Signal: 4-20 mA, two-wire loop powered</td>
<td>metal-to-metal “Lens” seal</td>
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<tr>
<td>Load Impedance: 500 Ω</td>
<td>Proof Pressure: 1.2X full-scale or 108K PSI (7,446 BAR) whichever is less</td>
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<tr>
<td>Insulation Resistance: Better than 10 MΩ at 50 Vdc</td>
<td>Burst Pressure: 1.5X full-scale or 108K PSI (7,446 BAR) whichever is less</td>
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<td>Circuit Protection: Reverse polarity</td>
<td>Weight: 2 lbs (0.9 kg) nominal</td>
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<tr>
<td>Response Time: 5 ms, 10 to 90% FSPR</td>
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<tr>
<td>Connection: 1/2” NPT (M) with 72” leads</td>
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**STATIC ACCURACY** (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- <0.25% FSO

**MATERIALS OF CONSTRUCTION**

- Wetted Parts: Inconel 718, K12X, or 13-8 Monel
- Housing: 300 series stainless steel

**PRESSURE RANGES**

- 0 to 1,000 PSI thru 0 to 90K PSI (69 thru 6,100 BAR)

**THERMAL SPECIFICATIONS**

- Compensated: 70 °F to +250 °F (21 °C to +121 °C)
- Operating Ambient: -40 °F to +250 °F (-40 °C to +121 °C)
- Operating Process: -40 °F to -350 °F (-40 °C to +175 °C)
- Storage Ambient: -65 °F to +250 °F (-53 °C to +121 °C)
- Effect on Zero/Span: < ±1.0% FSO/100 °F

*Standard configurations shown. Please consult factory for other options.*