



HIGH-PRESSURE, HIGH-TEMPERATURE PROCESS TRANSMITTER



1171-LDPE
High-Pressure, High-Temperature
Process Transmitter



MODEL 1171-LDPE

FEATURES:

- One piece sensor design
- External G^{3/4}, G^{1/2} & G^{3/8} 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.

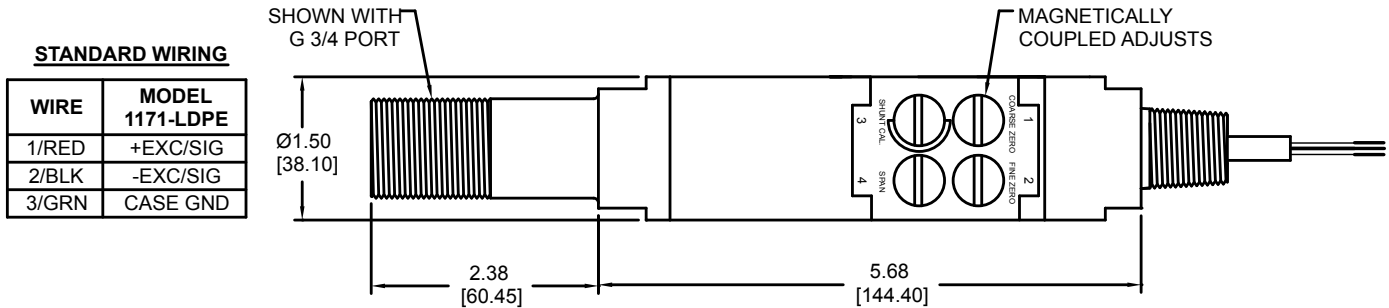
APPROVALS:

- **Hazardous Location FM/CSA Explosion Proof:**
Class I, II, III Division I / Groups A, B, C, D, E, F, G
(FM Standard / CSA requires P option code)
- **FM/CSA Intrinsically Safe:**
Class I, II, III Division I / Groups A, B, C, D, E, F, G

GP:50 MODEL 1171-LDPE

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

<p>ELECTRICAL</p> <ul style="list-style-type: none"> • Voltage Input: 9 to 36 Vdc • Output Signal: 4-20 mA, two-wire loop powered • Load Impedance: 500 Ω • Insulation Resistance: Better than 10 MΩ at 50 Vdc • Circuit Protection: Reverse polarity • Response Time: 5 ms, 10 to 90% FSPR • Connection: 1/2" NPT (M) with 72" leads 	<p>MECHANICAL</p> <ul style="list-style-type: none"> • Process connection: G 3/4", G 1/2" or G 3/8" (M) metal-to-metal "Lens" seal • Proof Pressure: 1.2X full-scale or 108K PSI (7,446 BAR) whichever is less • Burst Pressure: 1.5X full-scale or 108K PSI (7,446 BAR) whichever is less • Weight: 2 lbs (0.9 kg) nominal
<p>STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)</p>	<p>PRESSURE RANGES</p>
<ul style="list-style-type: none"> • <0.25% FSO 	<ul style="list-style-type: none"> • 0 to 1,000 PSI thru 0 to 90K PSI (69 thru 6,100 BAR)
<p>MATERIALS OF CONSTRUCTION</p>	<p>THERMAL SPECIFICATIONS</p>
<ul style="list-style-type: none"> • Wetted Parts: Inconel 718, K12X, or 13-8 Monel • Housing: 300 series stainless steel 	<ul style="list-style-type: none"> • 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: <math>\leq \pm 1.0\% \text{ FSO}/100 \text{ }^\circ\text{F}</math>

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

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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