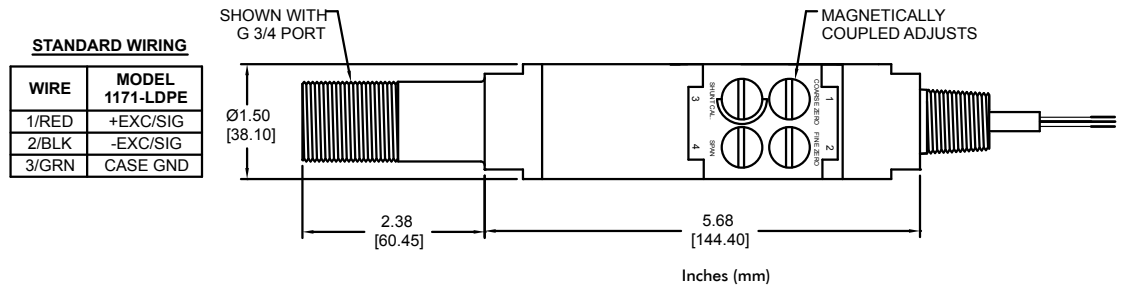


MODEL 1171-LDPE HIGH-PRESSURE, HIGH-TEMPERATURE PROCESS TRANSMITTER



Standard configurations shown.
Please consult factory for other options.

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.

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

GP:50 MODEL 1171-LDPE

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

| ELECTRICAL | |
|---------------------|--------------------------------|
| Output Signal: | 4-20 mA, two-wire loop powered |
| Excitation Voltage: | 9 to 36 Vdc |
| Circuit Protection: | RFI/EMI & Reverse polarity |
| Response Time: | 5 ms, 10 to 90% FSPR |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|----------------------------|
| Wetted Parts: | Inconel 718, 13-8 Monel |
| Housing: | 300 Series stainless steel |

| ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ + 70 °F | |
|--|------------|
| Standard: | ±0.25% FSO |
| Zero & Span Balance: | ±0.25% FSO |

| MECHANICAL | |
|------------------------|---|
| Process Connection: | G ^{3/4"} , G ^{1/2"} or G ^{3/8"} (M) metal-to-metal "Lens" seal |
| Electrical Connection: | 1/2" NPT (M) with 72" leads |
| 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 |
| Approximate Weight: | 2 lbs (0.9 kg) nominal |

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

| THERMAL SPECIFICATIONS | |
|------------------------|---------------------------------------|
| Operating Range: | -40 °F to +250 °F (-40 °C to +121 °C) |
| Compensated Range: | 70 °F to +250 °F (21 °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 |

