



LOW RANGE HIGH LINE DIFFERENTIAL PRESSURE TRANSDUCER

MODEL 216 / 316

FEATURES:

- 2.5" WCD thru 200 PSID (14 BAR)
- Up to 5K PSI (345 BAR) line pressure options available
- Up to $\pm 0.05\%$ FSO accuracy
- Unidirectional and bidirectional outputs
- Wet/wet design
- All welded 316L stainless steel wetted parts
- Compact size

APPLICATIONS:

- Automotive test stands
- Leak decay
- In-laboratory R&D
- Energy management
- Emissions management
- HVAC

PRODUCT OVERVIEW:

The Model 216/316 from GP:50 is a family of low range, high line, differential pressure transducers. Their compact design incorporates GP:50's own digital correction circuit technology, for high accuracy and extended service life across a variety of applications.

FIELD OPTIONS:

- Wide selection of process and electrical connections
- Submersible options (Meets IP67)
- Alternate wetted materials
- Custom calibrations



Model 216 / 316
Low Range High Line
Differential Pressure Transducer
(Shown with LB option)

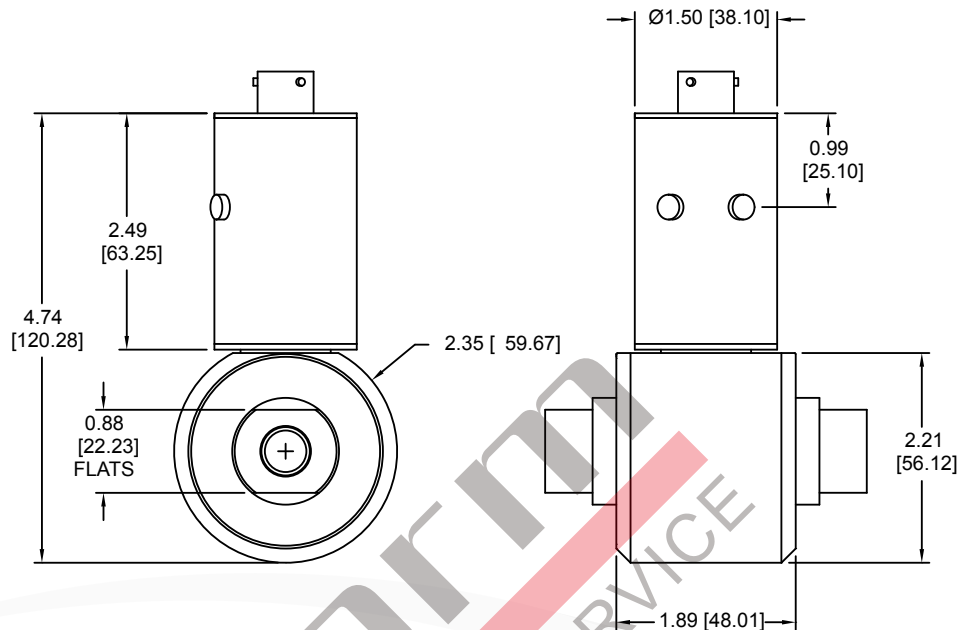
GP:50 MODEL 216 / 316

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	MODEL 216	MODEL 316
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C
SHIELD	OPEN	OPEN



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> • Excitation Voltage: 8.0 to 32 Vdc • Output Signal (at +70 °F): (Model 216) 0 to 5 Vdc, 0 to 10 Vdc (Model 316) 4-20 mA • Load Impedance: (Model 316) 750 Ω maximum (Model 216) ≤ 10K Ω • Zero/span adjustable to ±10% • Connection: 36" long PVC jacketed, 18 AWG, 4 conductor cable (or equivalent) • Response Time: Typ 35 ms for 90% FSO • Resolution: infinite 	<ul style="list-style-type: none"> • Process Connection: 1/4" NPT (F) • Proof Pressure: 500 PSI (35 BAR) single ended • Burst Pressure: 4K to 5K PSI (276 to 345 BAR); 750 PSI (52 BAR) for welded port • Static Line Pressure: Std Flanges: 2K PSI (138 BAR) Optional Flanges: 5K PSI (345 BAR) Welded Ports: 500 PSI (35 BAR) • Orientation shift (90°): Typ 10-20%, Range Dependent • Silicone oil filled (Krytox and other options available) • Approximate weight: 2.0 lbs (0.06 kg) • Environmental: Designed to IP67 (some options may affect this)
MATERIALS OF CONSTRUCTION	PRESSURE RANGES
<ul style="list-style-type: none"> • Wetted Parts: 316 stainless steel (Hastelloy available) • Housing: 316L stainless steel 	<ul style="list-style-type: none"> • 2.5" WCD thru 200 PSID (alternate ranges available)
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> ±0.5% FSO standard Improved ±0.2, ±0.1, or ±0.05% FSO 	<ul style="list-style-type: none"> • Compensated Range: +32 °F to +180 °F (0 °C to +82 °C) • Operating (ambient): 0 °F to +185 °F (-17 °C to +85 °C) (Unit will operate to -40 deg F with delayed response time) • Zero Balance and Span: Adjustable • Zero & Span shift: (Based on Accuracy) Std on 0.50% & 0.20%: ±1.0% FSO/100 °F Std on 0.10%: ±0.50% FSO/100 °F Std on 0.05%: ±0.30% FSO/100 °F

**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.