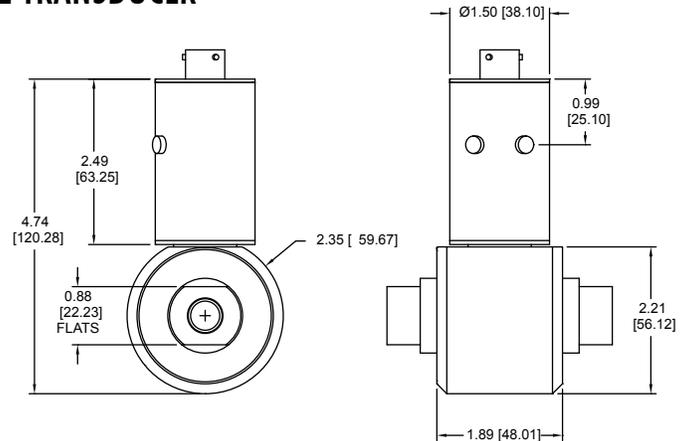


MODEL 216 / 316
LOW RANGE HIGH LINE
DIFFERENTIAL PRESSURE TRANSDUCER



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 |



REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.

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.

FEATURES:

- 2.5" WCD thru 200 PSID (14 BAR)
- 3K PSI (206 BAR) line pressure options available
- Up to ±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

FIELD OPTIONS:

- Temperature and line pressure outputs available
- Wide selection of process and electrical connections
- Submersible options (Meets IP67)
- Alternate wetted materials
- Custom calibrations

GP:50 MODEL 216 / 316

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

| ELECTRICAL | |
|-------------------------------|--|
| Output Signal: (at +70 °F) | (Model 216) 0 to 5 Vdc, 0 to 10 Vdc (Model 316) 4-20 mA |
| Excitation Voltage: | 9.0 to 32 Vdc |
| Connection: | 36" long PVC jacketed, 18 AWG, 4 conductor cable (or equivalent) |
| Circuit Protection: | RFI, EMI & Reverse polarity protected |
| Response Time: | 10 mSec Typ |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|---|
| Wetted Parts: | 316 Stainless Steel (Hastelloy available) |
| Housing: | 316L Stainless Steel |
| Internal Fill: | Fomblin oil fill (other options available, consult factory) |

| ACCURACY (BFSL): Non-Linearity @ +70 °F | |
|---|----------------------------------|
| Standard: | ±0.5% FSO |
| Improved: | ±0.2% FSO, ±0.1%, and ±0.05% FSO |
| Zero & Span Balance: | Adjustable to ±10% FSO |

| MECHANICAL | |
|--------------------------|---|
| Process Connection: | 1/4" NPT (F) |
| Proof Pressure: | 500 PSI (35 BAR) single ended |
| Burst Pressure: | 750 PSI (52 BAR) for welded port 3K PSI (206 BAR) w/Std Flanges 4K (275 BAR) w/Optional Flanges |
| Static Line Pressure: | |
| Standard Flanges: | 2K PSI (138 BAR) |
| Optional Flanges: | 3K PSI (206 BAR) (Consult Factory for Higher) |
| Welded Ports: | 500 PSI (35 BAR) |
| Static Line Shift: | < ±1.0% FSO/1000 PSI for ranges >20" WC < ±2.0% FSO/1000 PSI for ranges ≤20" WC |
| Orientation Shift (90°): | Up to 6%, range dependent |
| Approximate weight: | 2.0 lbs (0.06 kg) |
| Environmental: | Designed to IP67 (some options may affect this) |

| PRESSURE RANGES | |
|---|--|
| 2.5" WCD thru 200 PSID (alternate ranges available) | |

| THERMAL SPECIFICATIONS | |
|---|---|
| Operating Range: | 0 °F to +185 °F (-17.7 °C to + 85 °C) (Unit will operate to -40 °F with delayed response time) |
| Compensated Range: | +32 °F to +180 °F (0 °C to +82 °C) |
| Storage Ambient: | -20 °F to 200 °F (-29 °C to +93 °C) |
| Effects on Zero & Span: | ±0.5% FSO/100 °F ±0.3% FSO/100 °F with 0.05% accuracy |
| Improved or expanded temperature compensation available | |

