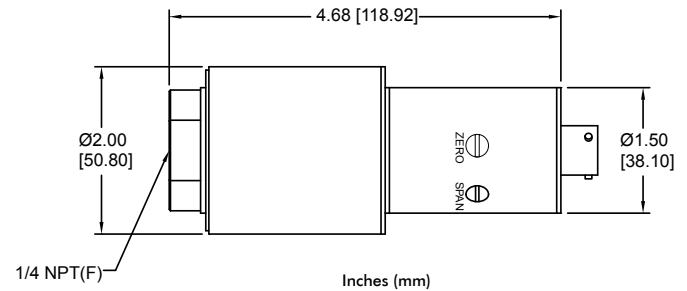


MODEL 210/310 LOW RANGE PRESSURE TRANSDUCER / TRANSMITTER



STANDARD WIRING

| WIRE | MODEL 210 | MODEL 310 |
|-------|-----------|-----------|
| 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 |



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The GP:50 Model 210/310 Series provides a high accuracy, low pressure sensor with high proof pressure. With ranges as low as 0 to 5" WC the standard unit provides proof pressures to 500 PSI with an optional $\pm 0.05\%$ FSO static accuracy.

FEATURES:

- Ranges from 0 to 5" WC thru 0 to 200 PSI, PSIA (64 mm WC to 14 BAR)
- 500 PSI proof pressure for all ranges (35 BAR)
- Welded 316 stainless steel wetted parts, no seals
- Optional improved accuracy $< \pm 0.05\%$ FSO
- Gauge, vacuum or absolute format
- Wet-wet gauge design

APPLICATIONS:

- Laboratory
- Pressure decay systems
- Engine test stands
- Emission test stands
- HVAC

OPTIONS:

- Improved static accuracy to $\pm 0.05\%$ FSO
- Optional process and electrical connections
- Zero and span adjust
- Shunt calibration

GP:50 MODEL 210/310

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

| ELECTRICAL | |
|----------------------------|----------------------------------------------------|
| Output Signal: @ +70 °F | (210) 0 to 5 Vdc, 0 to 10 Vdc (310) 4-20 mA |
| Excitation Voltage: | 8.0 to 32 Vdc |
| Load Impedance: | (210) $\leq 10K \Omega$ (310) 750 Ω max. |
| Circuit Protection: | EMI and RFI, reverse polarity |
| Response Time: | Typ 35 ms for 90% FSO |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|----------------------------------------------------------|
| Wetted Parts: | 316 stainless steel (Hastelloy optional) |
| Housing: | 300 Series stainless steel |
| Internal Fill: | Silicone oil filled (Krytox and other options available) |

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

| MECHANICAL | |
|---------------------------|------------------------------------------------------------------------|
| Process Connection: | 1/4" NPT (F) (options available) |
| Electrical Connection: | 36" long PVC Jacketed cable, 4-conductor, 22 AWG with strain relief |
| Proof Pressure: | 500 PSI (35 BAR) |
| Burst Pressure: | 2K PSI (138 BAR) Optional 5K PSI optional (345 BAR) |
| Approximate Weight: | < 1 lb (0.5 kg) |
| *Orientation Shift (90°): | Typ 10-20%, Range Dependent |

| PRESSURE RANGES | |
|-----------------------------------|--|
| 5" WC thru 200 PSI, PSIA (14 BAR) | |

| THERMAL SPECIFICATIONS | |
|------------------------|------------------------------------------------------------------------------------------------|
| Operating Range: | 0 °F to +185 °F (-17 °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: | -65 °F to +250 °F (-54 °C to +121 °C) |
| Effect on Zero/Span: | $\pm 1.0\%$ FSO/100 °F (Improved options: ± 0.5 to $\pm 0.25\%$ FSO/100 °F) |

INDUSTRIAL

