



## LOW RANGE PRESSURE TRANSDUCER / TRANSMITTER

### MODEL 210 / 310

#### 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

#### 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.

#### FIELD OPTIONS:

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



Model 210 / 310  
Low Range Pressure  
Transducer / Transmitter

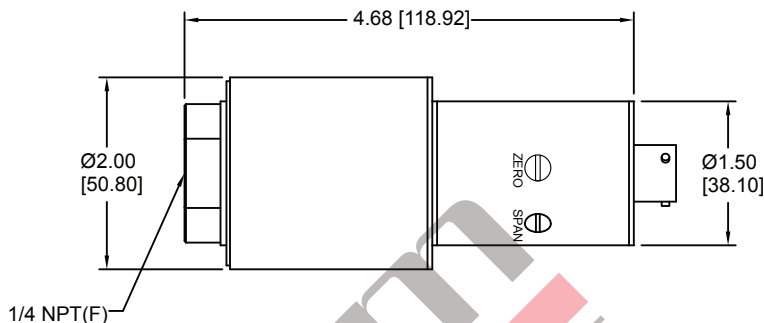
# GP:50 MODEL 210 / 310

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### 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



## REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> <li><b>Excitation Voltage:</b> (Models 210/310) 8.0 to 32 Vdc</li> <li><b>Output Voltage @ +70 °F:</b> (Model 210) 0 to 5 Vdc, 0 to 10 Vdc (Model 310) 4-20 mA</li> <li><b>Load Impedance:</b> (Model 210) <math>\leq 10K \Omega</math> (Model 310) 750 <math>\Omega</math> max.</li> <li><b>Response Time:</b> Typ 35 ms for 90% FSO</li> <li><b>Frequency Response:</b> flat to 100 Hz</li> <li><b>Resolution:</b> infinite</li> <li><b>Zero/Span:</b> Adjustable to <math>\pm 20\%</math></li> <li><b>Connection:</b> 36" long PVC jacketed cable, 4 conductor, 22 AWG with strain relief</li> </ul>
MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> <li><b>Wetted Parts:</b> 316 stainless steel (Hastelloy optional)</li> <li><b>Housing:</b> 300 series stainless steel</li> </ul>
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<b>Standard:</b> $\pm 0.5\%$ FSO <b>Improved:</b> $\pm 0.2\%$ FSO, $\pm 0.1\%$ FSO, $\pm 0.05\%$ FSO

MECHANICAL
<ul style="list-style-type: none"> <li><b>Process Connection:</b> Pressure 1/4" NPT (F) (options available)</li> <li><b>Approximate Weight:</b> &lt; 1 lb (0.5 kg)</li> <li><b>Proof Pressure:</b> 500 PSI (35 BAR)</li> <li><b>Burst Pressure:</b> 2K PSI (138 BAR) Optional 5K PSI optional (345 BAR)</li> <li><b>Orientation Shift (90°):</b> Zero - Typ 10-20%, Range Dependent Silicon oil filled (Krytox and other options available)</li> </ul>
PRESSURE RANGES
5" WCD thru 200 PSI, PSIA (14 BAR)
THERMAL SPECIFICATION
<ul style="list-style-type: none"> <li><b>Compensated Range:</b> +32 °F to +180 °F (0 °C to +82 °C)</li> <li><b>Effect on Zero/Span:</b> <math>\pm 1.0\%</math> FSO/100 °F (Improved options: <math>\pm 0.5</math> to <math>\pm 0.25\%</math> FSO/100 °F)</li> <li><b>Operating Range:</b> 0 °F to +185 °F (-17 °C to +85 °C) (Unit will operate to -40 °F with delayed response time)</li> </ul>

**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.