

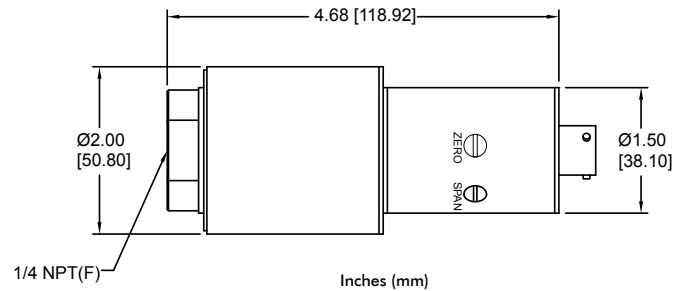
## MODEL 210/310

### 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



**REF DIMENSIONS ONLY.  
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

#### 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 $\Omega$ 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: $\pm 0.5$ to $\pm 0.25\%$ FSO/100 °F)

INDUSTRIAL

