

HIGH LINE / LOW RANGE AEROSPACE DIFFERENTIAL PRESSURE TRANSDUCER

MODEL 7450

FEATURES:

- Ranges of 2.5" WCD thru 100 PSID (6.9 BAR)
- Up to 5,000 PSI line pressure option (345 BAR)
- $\pm 0.1\%$ FSO accuracy
- True Wet-Wet design
- High shock and vibration rated per MIL-STD-810F
- J-001/NASA 8739.3 standard workmanship
- Subsea rated option

APPLICATIONS:

- Ground support systems
- Engine testing
- Launch vehicles
- Naval subsea testing

PRODUCT OVERVIEW:

Model 7450 is a high accuracy aerospace grade, high line - low range differential pressure transducer available with static line pressure to 5,000 PSI. Differential ranges as low as 0-2.5" WCD and a 500 PSI proof pressure are standard on all ranges. A custom subsea rated design allows operation to 23,000 FT SW.

FIELD OPTIONS:

- Wide selection of process and electrical connections
- Bi-directional operation
- Line pressure to 5K PSI (345 BAR)
- Zero and span adjustment
- Subsea rated version



Model 7450

High Line / Low Range Aerospace
Differential Pressure Transducer



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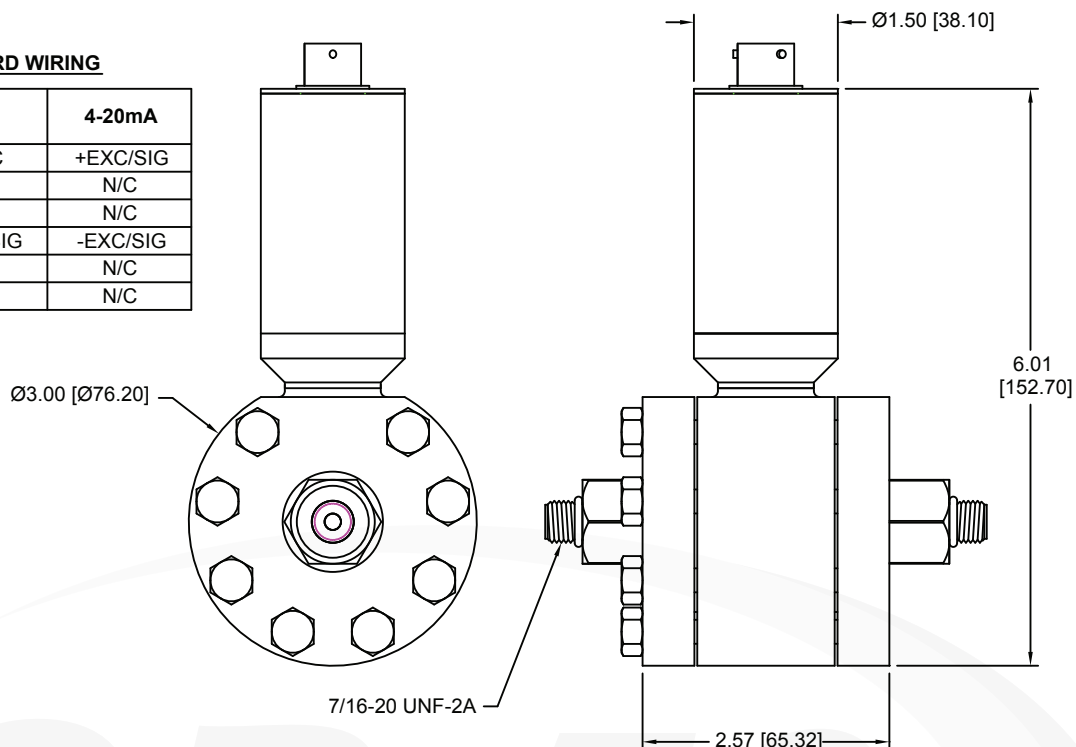
GP:50 MODEL 7450

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	VDC	4-20mA
A/1	+EXC	+EXC/SIG
B/2	+SIG	N/C
C/3	N/C	N/C
D/4	-EXC/SIG	-EXC/SIG
E/5	N/C	N/C
F/6	N/C	N/C



REFERENCE SPECIFICATIONS

<p>ELECTRICAL</p> <ul style="list-style-type: none"> • Output Signal: 0 to 5 Vdc, 0 to 10 Vdc or 4-20 mA • Excitation Voltage: 13 to 32 Vdc • Connection: PTIH-10-6P standard Other options available including subsea versions • Load Impedance: ≤10K Ω 	<p>MECHANICAL</p> <ul style="list-style-type: none"> • Process connection: AS4395E04 standard • Proof Pressure: 500 PSI (34.5 BAR) • Burst Pressure: 500 PSI (34.5 BAR) • Line Pressure: 5,000 PSI (345 BAR) • Line Pressure Effect (Zero): <1% FSO/1,000 PSI • Response Time: <10ms for 90% FSO • Frequency Response: Flat to 100 Hz • Resolution: Infinite • Weight: <3 lbs
<p>ACCURACY</p> <ul style="list-style-type: none"> • Static Accuracy (BFSL): <±0.1% FSO • Zero/span balance: ±0.5% FSO <p>(For ranges <10 PSI (0.7 BAR) we recommend zero and span adjustment option)</p>	<p>PRESSURE RANGES</p> <ul style="list-style-type: none"> • 2.5" WCD thru 100 PSID
<p>MATERIALS OF CONSTRUCTION</p> <ul style="list-style-type: none"> • Wetted Parts: 316 stainless steel (exotic materials available) • Housing: 316 SST, DC-200 Silicon oil filled sensor 	<p>THERMAL SPECIFICATION</p> <ul style="list-style-type: none"> • Compensated: 32 °F to +180 °F (-2 °C to +82 °C) • Operating: 0 °F to +180 °F (-17 °C to +82 °C) • Thermal Error: ±0.5% FSO/100 °F • Improved Thermal Performance: ±0.25% FSO/100 °F

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.