



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
- Designed to meet *MIL-STD-810F High shock and vibration standards
- J-001/NASA 8739.3 standard workmanship
- Subsea rated option

APPLICATIONS:

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



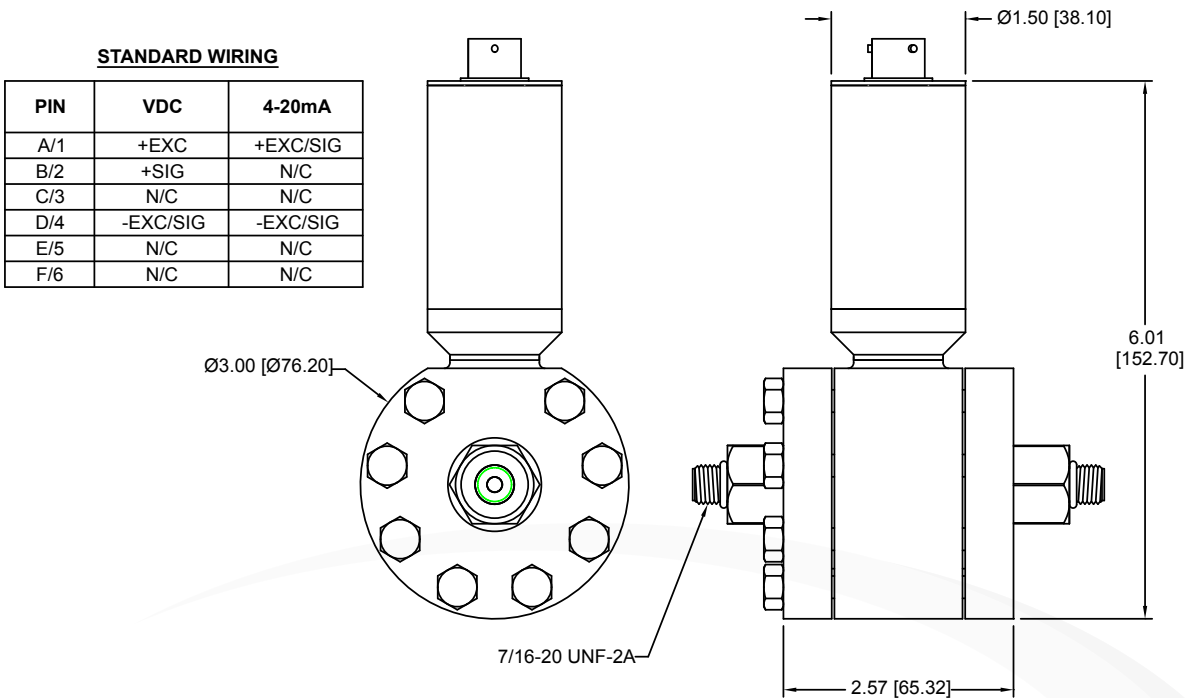
Model 7450

High Line / Low Range Aerospace
Differential Pressure Transducer

GP:50 MODEL 7450

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<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: $\leq 10K \Omega$ 	<ul style="list-style-type: none"> • Process connection: AS4395E04 standard • Proof Pressure: 500 PSI (34.5 BAR) • Burst Pressure: 2500 PSI (172 BAR) Single Ended • Line Pressure: 5,000 PSI (345 BAR) • Line Pressure Effect (Zero): $< 1\%$ FSO/1,000 PSI • Response Time: Typ 30ms for 90% FSO • Weight: < 3 lbs
ACCURACY	PRESSURE RANGES
<ul style="list-style-type: none"> • Static Accuracy (BFSL): $< \pm 0.1\%$ FSO • Zero/span balance: $\pm 0.5\%$ FSO (For ranges < 10 PSI (0.7 BAR) we recommend zero and span adjustment option) 	<ul style="list-style-type: none"> • 2.5" WCD thru 100 PSID
MATERIALS OF CONSTRUCTION	THERMAL SPECIFICATION
<ul style="list-style-type: none"> • Wetted Parts: 316 stainless steel (exotic materials available) • Housing: 316 SST, DC-200 Silicon oil filled sensor 	<ul style="list-style-type: none"> • Compensated: $+32$ °F to $+180$ °F (0 °C to $+82$ °C) • Effect on Zero/Span: $\pm 0.50\%$ FSO/100 °F (Improved option: $\pm 0.25\%$ FSO/100 °F) • Operating (ambient): 0 °F to $+185$ °F (-17 °C to $+85$ °C) (Unit will operate to -40 deg F with delayed response time) • NIST Traceability • Workmanship: J-001 • Quality System: ISO 9001:2008

*Options may affect Mil-specifications.
Please consult factory for your specific needs.

**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.

© 2014 GP:50 NY Ltd. | 2770 Long Rd, Grand Island, NY 14072 USA

Tel: +1.716.773.9300 Fax: +1.716.773.5019 Email: sales@gp50.com Web: www.gp50.com

