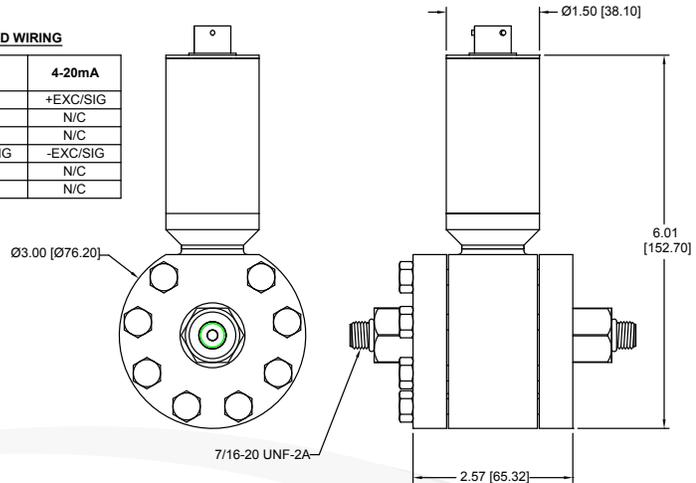


GP:50 Aerospace Heritage products can be designed to meet various MIL Specifications. Consult factory.

## MODEL 7450 HIGH-LINE / LOW-RANGE AEROSPACE DIFFERENTIAL PRESSURE TRANSDUCER



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



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

### 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.

### 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
- Subsea rated option

### APPLICATIONS:

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

### OPTIONS:

- Wide selection of process and electrical connections
- Bidirectional operation
- Line pressure to 5K PSI (345 BAR)
- Zero and span adjustment
- Subsea rated version
- Various MIL-SPECS available. Consult factory.

# GP:50 MODEL 7450

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	0 to 5 Vdc, 0 to 10 Vdc or 4-20 mA (Digital Output Options)
Excitation Voltage:	9-32 Vdc for 4-20 mA and 0-5 Vdc non-isolated
Circuit Protection:	Reverse Polarity Protected
Response Time:	Typ 30 ms for 90% FSO

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316 Stainless Steel (exotic materials available)
Housing:	316 Stainless Steel
Internal Fill:	DC-200 Silicone oil filled sensor

ACCURACY (RSS): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Static Accuracy (RSS):	≤ ±0.3% FSO
Non-Linearity:	≤ 0.15% FSO (Typ)
Hysteresis:	≤ 0.1% FSO (Typ)
Repeatability:	≤ 0.1% FSO (Typ)
Zero Balance:	± 1.0% FSO
Span Balance:	± 1.0% FSO

(BFSL method used. Improved options available.)

Calibration:	NIST Traceable Cert
Workmanship:	IPC-A-610 Soldering
Quality System:	ISO 9001

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

MECHANICAL	
Process Connection:	AS4395E04 standard
Electrical Connection:	PTIH-10-6P standard, Other options available including subsea versions
Proof Pressure:	500 PSI (34.5 BAR)
Burst Pressure:	2500 PSI (172 BAR) Single Ended
Line Pressure:	5,000 PSI Max (345 BAR)
Zero Shift with Line Pressure:	< 1% FSO/1,000 PSI
Secondary Containment:	4,500 PSI Optional
Approximate Weight:	< 3 lbs (1.36078 kg)

PRESSURE RANGES	
2.5" WCD thru 100 PSID	

THERMAL SPECIFICATIONS	
Operating Range:	0°F to +185 °F (-17.8 °C to +85 °C) (Unit will operate to -40 °F (-40 °C) with delayed response time)
Compensated Range:	+32 °F to +180 °F (0 °C to +82 °C)
Compensated Ranges from 0 °F to +250 °F (17.8 °C to +121 °C) available	
Effect on Zero & Span:	± 1.0% FSO/100 °F (Improved specifications available)

