MODEL 7450

FEATURES:

- Ranges of 2.5” WCD thru 100 PSID (6.9 BAR)
- Up to 5,000 PSI line pressure option (345 BAR)
- ±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
**ELECTRICAL**

- **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

**ACCURACY**

- **Static Accuracy (BFSL):** < ±0.1% FSO
- **Zero/span balance:** ±0.5% FSO
  - (For ranges < 10 PSI (0.7 BAR) we recommend zero and span adjustment option)

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:** 316 stainless steel (exotic materials available)
- **Housing:** 316 SST, DC-200 Silicon oil filled sensor

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

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**REFERENCE SPECIFICATIONS**

**MECHANICAL**

- **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

**PRESSURE RANGES**

- 2.5” WCD thru 100 PSID

**THERMAL SPECIFICATION**

- **Compensated:** +32 °F to +180 °F (0 °C to +82 °C)
- **Effect on Zero/Span:** ±0.50% FSO/100 °F
  - (Improved option: ±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

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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.