

Pressure Transducer Specifications

- Static Pressure Transducer
 - Pressure Range: 0-35 psia
 - Maximum over pressure without losing calibration: 2X pressure rating
 - Burst Pressure: 6X pressure rating, minimum
 - Must withstand vacuum ($<10^{-4}$ torr) without need for recalibration
 - Operational Temperature Range: -54°C to +129°C
 - Must be compatible with helium, dry air, argon, and N₂
- Accuracy in Operation Range
 - Bias Error: $\pm 0.14\%$ Full Scale Best Fit Straight Line, Combined nonlinearity and hysteresis errors through the Root-Sum-Squared method
 - Precision Error: $\pm 0.01\%$ Full Scale Best Fit Straight Line, Combined sensitivity and repeatability errors. Combined by the Root-Sum-Squared method
 - Zero Offset and Span Setting: $\pm 0.25\%$ Full Scale
 - Thermal Effects
 - $\pm 0.003\%$ Full Scale per degree°C
- Calibration
 - Calibration independent of test gas type
 - Manufacturer to provide full calibration data (e.g. pressure vs. voltage) for each unit showing that it meets specs using NIST traceable equipment.
- Pressure Transducers must be Compatible with Existing Hardware including Physical Dimensions
 - Working fluid-side of transducer must be hermetic
 - Fluid-side Connector: $\frac{1}{4}$ VCR male
 - Physical dimensions: cylindrical, no greater than 1.0 inch in diameter, no greater than 5.0 inches in length
- Pressure Transducers must be Compatible with Existing Electrical Connections and Voltages
 - Electrical Connector: 4-pin bayonet plug, size 8, to Mil Spec C26482
 - Electrical input isolated from output
 - Pinout:
 - A: + VE output
 - B: - VE output
 - C: - VE supply
 - D: + VE supply
 - Electrical output: 0 to 5 vdc
 - Excitation: 5 to 36 vdc
 - Transducer, connectors, and wiring must be shielded

- ANY AND ALL EXCEPTIONS MUST BE STATED
- All items will be acceptance tested at the NASA Glenn Research Center.
- Prospective bidders shall provide documentation clearly showing the Company's ability to manufacture the requested pressure transducers.
- Quantity: 50
- Shipping: FOB Destination
- **Delivery: 12 weeks after receipt of order (ARO)**
- Delivery Site:
NASA Glenn Research Center
Attn: Shipping & Receiving Building 21
21000 Brookpark Road
Cleveland, Ohio 44135