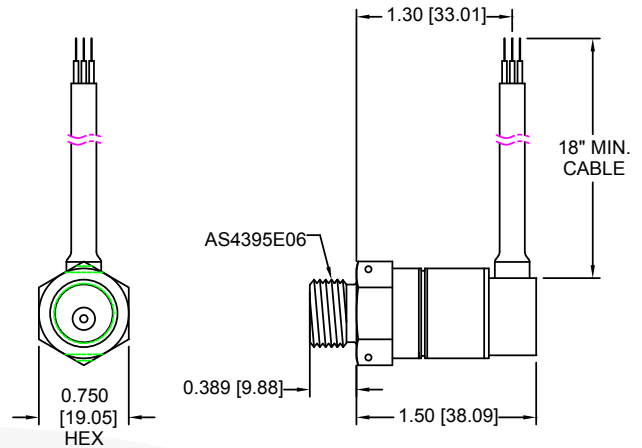


## MODEL 7202 COMPACT FLIGHT HERITAGE TRANSDUCER



**STANDARD WIRING**

| PIN  | DESCRIPTION |
|------|-------------|
| RED  | +INPUT      |
| BLK  | -INPUT      |
| GRN  | +OUTPUT     |
| BLU  | +RTD        |
| WHT  | -RTD        |
| ORG  | PROGRAM     |
| SHLD | CASE GND    |



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

### PRODUCT OVERVIEW:

The Model 7202 is one of the smallest and light weight aerospace designs GP:50 offers. It provides very high accuracy and improved thermal performance. The 7202 will withstand some of the most severe aerospace or military applications, including higher shock and vibration environments.

### FEATURES:

- Compact and lightweight design
- $\pm 0.10\%$  static accuracy option
- Temperature output options
- Ranges up to 0-15K PSIA

### APPLICATIONS:

- Commercial and defense satellites
- Launch vehicles
- Unmanned aerial vehicles
- Military and civilian aircraft
- Ground support and engine test stands

### OPTIONS:

- "B+ and S Class" amplified electronics available
- Temperature output
- Inconel and Hastelloy wetted parts
- Wide selection of pressure ports and electrical connections
- Various MIL-SPECS available. Consult factory.

# GP:50 MODEL 7202

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

| ELECTRICAL          |   |
|---------------------|---|
| Output Signal:      | 0.1 to 5.1 Vdc<br>(other optional outputs available)                                    |
| Temperature Output: | RTD; 100 $\Omega$ or 1000 $\Omega$ at 0 °C Alpha 0.00385 $\Omega/\Omega/^\circ\text{C}$ |
| Excitation Voltage: | 16.5 to 32 Vdc (28 Vdc nominal)   |
| Response Time:      | Typ 1ms   |

| MATERIALS OF CONSTRUCTION |   |
|---------------------------|---|
| Wetted Parts:             | 15-5 sensor (Inconel, Hastelloy optional) |
| Housing:                  | 316L Stainless Steel                      |

| ACCURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F |                             |
|---|-----------------------------|
| Static Accuracy (RSS):  | $\leq \pm 0.3\%$ FSO        |
| Non-Linearity:  | $\leq \pm 0.15\%$ FSO (Typ) |
| Hysteresis:   | $\leq \pm 0.1\%$ FSO (Typ)  |
| Repeatability:  | $\leq \pm 0.1\%$ FSO (Typ)  |
| Zero Balance:   | $\pm 1.0\%$ FSO             |
| Span Balance:   | $\pm 1.0\%$ 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:    | AS4395E06  |
| Electrical Connection: | 24 AWG, 5 conductor, Teflon insulated, braided shield and Viton jacketed cable |
| Proof Pressure:        | 1.5X FSO   |
| Burst Pressure:        | 2.5X FSO   |
| Secondary Containment: | Up to 4,500 PSI (310 BAR)  |
| Environmental:         | MIL-STD-810F   |
| EMC:                   | MIL-STD-461  |
| Approximate Weight:    | <5 oz (141 grams)  |

| PRESSURE RANGES  |  |
|--|--|
| 0 to 1000 thru 0 to 15K PSIA, PSIG, PSIV, PSISG<br>(0-69 thru 0-1,034 BAR), other ranges available |  |

| THERMAL SPECIFICATIONS  |  |
|---|--|
| Operating Range:  | -65°F to +250 °F (-54 °C to +121 °C)                       |
| Compensated Range:  | 0 °F to +180 °F (-17.8 °C to +82 °C)                       |
| Compensated Ranges from -65 °F to +250 °F (-54 °C to +121 °C) available |  |
| Effect on Zero & Span:  | $\pm 1.0\%$ FSO/100 °F (Improved specifications available) |

