



## COMPACT FLIGHT QUALIFIED PRESSURE TRANSDUCER

### MODEL 7202

#### FEATURES:

- Compact and lightweight
- $\pm 0.05\%$  FSO optional improved static accuracy
- Temperature output options
- Ranges up to 0-15K PSIA (0-1034 BAR)
- Design meets MIL-STD-810F and MIL-STD-461

#### APPLICATIONS:

- Commercial and defense flight
- Launch vehicles
- Ground support systems
- Unmanned aerial and ground vehicles

#### PRODUCT OVERVIEW:

The Model 7202 flight qualified pressure transducer from GP:50 is one of the smallest and most lightweight available. It offers high accuracy and improved thermal performance and is manufactured and tested to meet MIL-STD-461E and MIL-STD-810F. The Model 7202 effectively measures static pressures from 0 to 15K PSIA (0 to 1034 BAR) with  $\pm 0.30\%$  FSO accuracy. Improved accuracy to  $\pm 0.05\%$  FSO is optional.

#### FIELD OPTIONS:

- Improved thermal compensated temperature from  $-65^{\circ}\text{F}$  to  $+250^{\circ}\text{F}$
- Temperature output options
- Inconel or Hastelloy wetted parts



Model 7202  
Flight Qualified Pressure Transducer

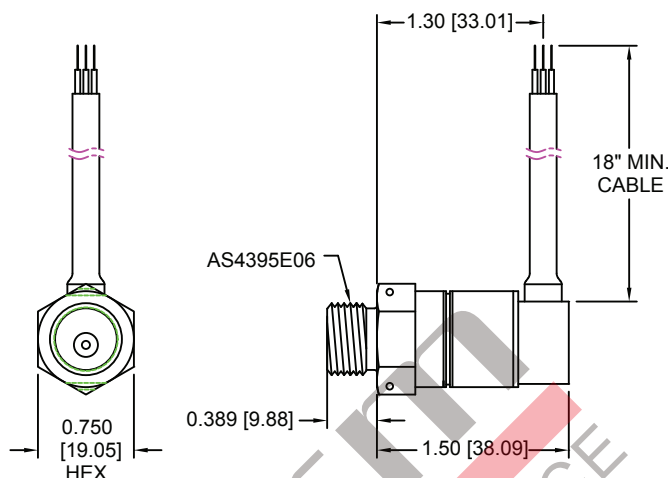
# GP:50 MODEL 7202

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

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



## REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"><li>• <b>Output Signal:</b> 0.1 to 5.1 Vdc (other optional outputs available)</li><li>• <b>Supply Voltage:</b> 16.5 to 32 Vdc (28 Vdc nominal)</li><li>• <b>Connection:</b> 24 AWG, 5-conductor, Teflon insulated, braided shield and Viton jacketed cable</li><li>• <b>Temperature output option:</b> RTD: 100Ω or 1000 Ω at 0 °C Alpha 0.00385 Ω/Ω/°C</li></ul>	<ul style="list-style-type: none"><li>• <b>Process connection:</b> AS4395E06</li><li>• <b>Proof Pressure:</b> 1.5X FSO</li><li>• <b>Burst Pressure:</b> 2.5X FSO</li><li>• <b>Secondary containment:</b> Up to 4500 PSI (310 BAR)</li><li>• <b>Environmental:</b> MIL-STD-810F</li><li>• <b>EMC:</b> MIL-STD-461</li><li>• <b>Weight:</b> &lt;5 oz</li></ul>
ACCURACY	PRESSURE RANGES
<ul style="list-style-type: none"><li>• <b>Static Accuracy (BFSL):</b> &lt;±0.3% FSO, ±0.05% FSO optional</li><li>• <b>Zero/span balance:</b> ±0.1% V</li><li>• <b>Thermal Error:</b> ±1.0% FSO over CTR</li></ul>	<ul style="list-style-type: none"><li>• 0 to 1000 thru 0 to 15K PSIA, PSIG, PSIV, PSISG (0-69 thru 0-1034 BAR), other ranges available</li></ul>
MATERIALS OF CONSTRUCTION	THERMAL SPECIFICATION
<ul style="list-style-type: none"><li>• <b>Wetted Parts:</b> 15-5 sensor (Inconel, Hastelloy optional)</li><li>• <b>Housing:</b> 316L stainless steel</li></ul>	<ul style="list-style-type: none"><li>• <b>Compensated:</b> -30 °F to +170 °F (-34 °C to +77 °C)</li><li>• <b>Optional Expanded Range:</b> -65 to 250°F (±2.3% FSO/100 °F)</li><li>• <b>Operating:</b> -75 °F to +270 °F (-59 °C to +133 °C)</li><li>• <b>NIST Traceability/Calibration:</b> ANSI-Z540-1</li><li>• <b>Workmanship:</b> J-001/NASA 8739.3 standard</li><li>• <b>Quality System:</b> ISO 9001:2008</li></ul>

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.