



FLIGHT HERITAGE FLOW-THRU PRESSURE TRANSDUCER

MODEL 7900

FEATURES:

- Lightweight, compact size <55 grams
- Flight qualified
- High accuracy, <0.1% FSO RSS
- "S" Class electronics available
- Full traceability
- Designed to meet *MIL-STD-810C & E shock and vibration requirements

APPLICATIONS:

- Miniature propulsion platforms
- Space vehicles
- Satellite propulsion
- Launch vehicles
- Life support systems

PRODUCT OVERVIEW:

Model 7900 series is a light weight flow-thru pressure transmitter designed for flight propulsion systems. The flow thru design is engineered to measure up to 0.1% of full scale pressure flow across the sensor and will stand up to the rigorous conditions associated with propulsion applications.

FIELD OPTIONS:

- mV/V, 0 to 5 Vdc, 0 to 10 Vdc (4-wire isolated output options) or 4-20 mA output
- Temperature (RTD) output
- Improved temperature compensation
- B+ and "S" Class electronics
- D38999/27YB98PN, D38999/27YA35PN electrical connectors

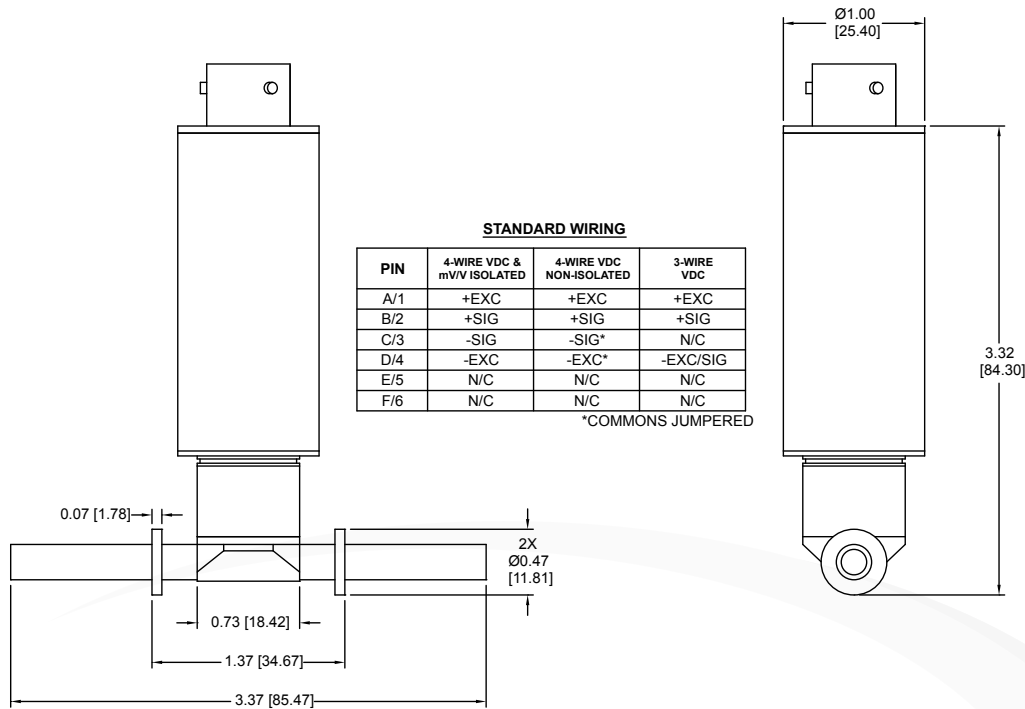


Model 7900
Flight Qualified Flow-thru
Pressure Transducer

GP:50 MODEL 7900

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none">• Output Signal: 3mV/V, 0 to 5 Vdc and 0 to 10 Vdc isolated and non isolated• Supply Voltage: 5 Vdc, 12 Vdc, and 18 to 36 Vdc isolated• Response Time: <4 ms• Connection: MIL-PTIH-10-6 standard, other options available• Circuit Protection: Designed to meet *MIL-STD-461/EMI/RFI Reverse polarity protection (some options may affect rating)	<ul style="list-style-type: none">• Process connection: Welded 1/4" ID stainless steel tube, flow through, in-line design (other ports available)• Proof Pressure: 1.5X FSO• Burst Pressure: 2.0X FSO• Weight: <55 grams
MATERIALS OF CONSTRUCTION	PRESSURE RANGES
<ul style="list-style-type: none">• Wetted Parts: 316 stainless steel• Housing: 316L stainless steel	0 to 50 thru 0 to 5,000 PSIA, PSIG or PSISG (3.4 thru 345 BAR)
ACCURACY	THERMAL SPECIFICATIONS
<p>Static Accuracy (RSS): <±0.3% FSO, ±0.1 % FSO optional</p> <p>Non-repeatability: <± 0.1% FSO</p> <p>Hysteresis: <±0.2% FSO</p> <p>Non-linearity: <±0.2% FSO</p> <p>Total Error Band: ± 0.1% FSO</p>	<ul style="list-style-type: none">• Compensated: -20 °F to +120 °F (-29 °C to +49 °C) expanded range available• Operating: -100 °F to +250 °F (-73 °C to +121 °C)• Effect on Zero/Span: ±1.0% FSO/100 °F
*Options may affect Mil-specifications. Please consult factory for your specific needs.	OPTIONAL
	<ul style="list-style-type: none">• NIST Traceability/Calibration: ANSI-Z540-1• Workmanship: J-001/NASA 8739.3 standard• Quality System: ISO 9001:2008

**Standard configurations shown.
Please consult factory for other options.**

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.