



# FLIGHT IN-FLOW LIGHTWEIGHT PRESSURE TRANSDUCER

## Model 7900

Designed for the tough challenges and environmental rigors of space propulsion and aviation pressure testing.

- Miniature Propulsion Platforms
- Space Vehicles
- Satellite Propulsion
- Launch Vehicles
- Life Support Systems

### FEATURES:

- Under 55 grams mass (depending on desired options)
- High Accuracy, 0.3% RSS standard (0.1% RSS available)
- Flow-Thru design
- Isolated outputs for EMI/RFI
- Optional Temperature compensation ranges
- Temperature (RTD) output optional
- Shock and Vibration tested to MIL-STD-810C&E requirements



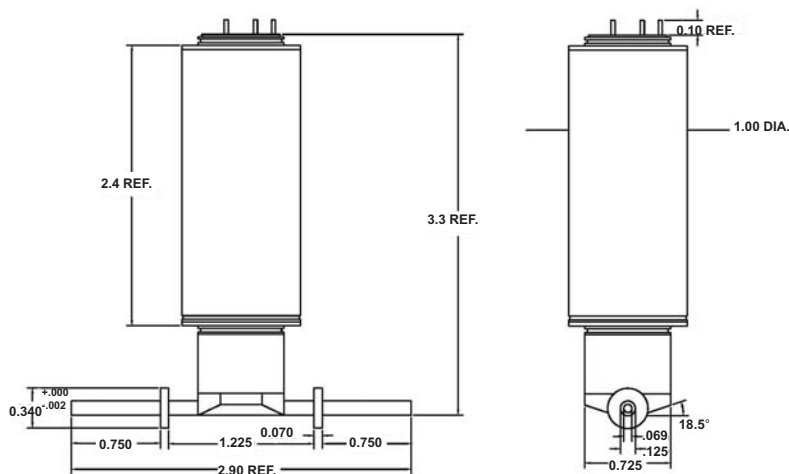
**Heritage Includes:**

- NASA Goddard
- NASA Marshall
- Moog

All GP:50 Aerospace pressure transducers are manufactured and tested to the following MIL-STD and MIL-Spec standards to insure the highest quality assurance:

- NIST Traceability and Calibration..... MIL-STD-45662A
- Workmanship ..... J-001 / NASA 8739.3 standards
- Quality System ..... ISO 9001:2000

Designed to: MIL-STD-810C&E  
 MIL-STD-461/462D&E



Units are in inches.

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Ranges	15 thru 5,000 PSIA, PSIG or PSISG options
FS Output at Rated Pressure	3 mV/V, 0-5 Vdc , 0-5 Vdc Isolated, 0-10 Vdc, 0-10 Vdc Isolated
Proof Pressure	1.5X
Burst Pressure	2.0X
Excitation or Input Voltage Reverse Polarity Protected	5 Vdc, 12Vdc, 18V to +36 Vdc Isolated
Non-Repeatability	<0.1% FSO
Non-Linearity	<0.2% FSO
Hysteresis	<0.2% FSO
Static Accuracy RSS	<0.3% FSO RSS, 0.1% optional
Error Band (all 5 parameters)	1.0% standard
Pressure Medium (Wetted Materials)	316SS
Temperature Compensation	-20° to +120°F / -30° to +50°C, expanded range optional
Operating/Environmental Temperature	-100°F to +250°F
Weight	<55 grams
Pressure Port	Welded 1/4" ID SS Tube, flow through, in-line design (other ports available)
Electrical Connector	MIL PTIH-10-6P (other connectors available)
Response Time	Under 4 ms
Meets MIL-STD-461/462 EMI/RFI and 810C&E	

## ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.  
 Use the following codes to identify desired item.

MODEL	OUTPUT	RANGE	PRESSURE TYPE	OPTIONS
●	—	●	—	●

Example: 7900-2-RH-A-CA/FD/GH

### OUTPUT

- 1 0-3 mV/V
- 2 0-5 Vdc 4 wire hookup
- 4 0-5 Vdc Isolated
- 5 0-10 Vdc 4 wire hookup
- 6 0-10 Vdc Isolated
- 9 0-5 Vdc 3 wire hookup
- 10 0-10 Vdc 3 wire hookup

### RANGE (PSI)

- PP 0-15      RK 0-750
- PR 0-20      RM 0-1000
- PO 0-25      RO 0-1500
- PV 0-50      RR 0-2000
- PZ 0-100     RT 0-3,000
- RB 0-150     RV 0-5,000
- RD 0-200
- RF 0-300
- RH 0-500

### PRESSURE TYPE

- A Sealed Absolute, ref to vacuum
- G Gauge, ref to atmosphere
- SG Sealed Gauge, ref to 14.7 PSI

### OPTIONS

#### CONNECTORS OR CABLE:

- CA PTIH-10-6P Bendix
- CI D38999/27YB98PN
- CT 36" Teflon Jacket Cable
- DB D38999/27YA35PN

### PORTS

- FA MS33649-4, 7/16-20 (F)
- FD MS33656-4, 7/16-20 (M)
- IF Welded 1/8" ID SS Tube

### MISC:

- D Improved Accuracy to 0.1%
- GF Expanded process temperature range, -65 to 250°F (±2% FSO/100°F)
- GH 100% Internal Shunt
- GL Cleaning for oxygen service
- JA 100 ohm 2 wire RTD
- JB 1000 ohm 2 wire RTD
- ME Shunt Cal, 80% Internal