



FLIGHT QUALIFIED HIGH LEVEL PRESSURE TRANSDUCER

Model 7200 "B+" and "S" Class Electronics Available

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

FEATURES:

- High accuracy, 0.3% RSS standard (0.1% RSS available)
- Proprietary mechanical isolation of the sensor for zero stability
- Cavity material options for extreme environments
- 10X overload option
- Isolated, 0-5 Vdc, 0-10 Vdc, 4-20 mAdc outputs
- 100 ohm or 1000 ohm platinum RTD temperature options
- 100 G's Pk/Pk (3500 G shock), 1 Hr / Axis qualified
- 24 Grms 1Hr / Axis (3500 G shock) qualified
- Over 1,000,000 continuous cycles
- "B+" and "S" class electronics available
- Cleaning to MIL-STD-1246 available

- **Satellites: Commercial and Defense**
- **Ground & Engine Test**
- **Launch Vehicles**
- **Aircraft Systems / Avionics**

Heritage Includes:

- NASA
- Lockheed Martin (EELV)
- EELV
- Johns Hopkins APL
- Shuttle Upgrade
- Boeing
- TRW-ABL
- Northrop Grumman



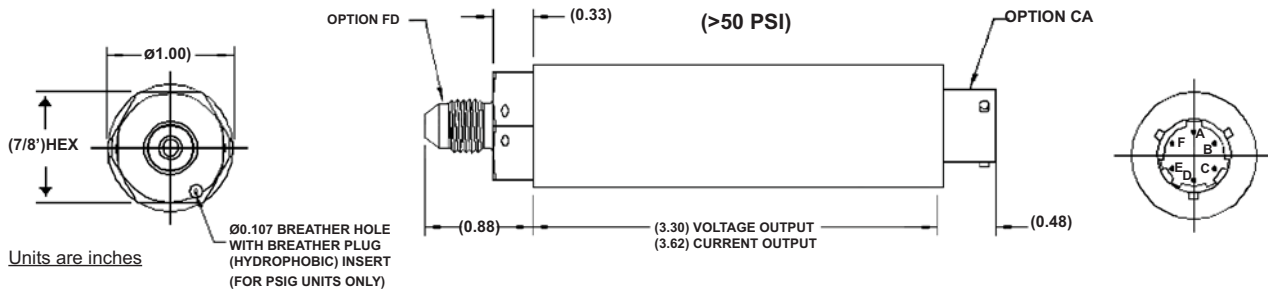
Shown at the left for pressure ranges 50 thru 15,000 psi, shown at the right for pressure ranges <50 psi.

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

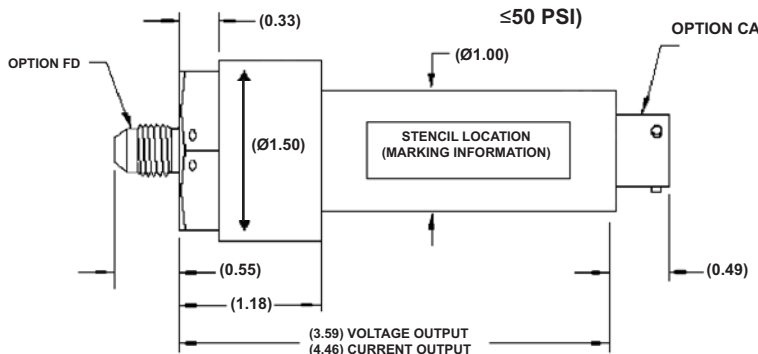
Transducer Design Meets: MIL-STD-810F All Methods
 MIL-STD-461E

SEE INSTALLATION MANUAL FOR PINOUT ASSIGNMENT BASED ON ELECTRONICS OPTIONS



Units are inches

Ø0.107 BREATHER HOLE WITH BREATHER PLUG (HYDROPHOBIC) INSERT (FOR PSIG UNITS ONLY)



	PIN OUT FOR OPTION 3	PIN OUT FOR OPTIONS 2, 4
A/1	+ EXC. / SIG. OUT	+ EXC.
B/2	NC	+ SIG. OUT
C/3	NC	- SIG. OUT
D/4	- EXC. / SIG. OUT	- EXC.
E/5	RTD (OPTIONAL)	RTD (OPTIONAL)
F/6	RTD (OPTIONAL)	RTD (OPTIONAL)

- NOTES:
 1. WEIGHT = 5.0 OZ WITH MODULE
 2. HIGH LEVEL 0-5 VDC OR 0-10 OUTPUT
 3. 5000 OHM GAUGES
 4. -65° TO +250°F OPTIONAL COMPENSATED TEMPERATURE RANGES

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	3 thru 15,000 PSIA, PSIG or PSISG options
FS Output at Rated Pressure	0-10 Vdc / 0-5 Vdc Isolated / 4-20 mA 2 Wires and Isolation Option
Temperature Output	100 ohm 2 wire platinum RTD optional 1000 ohm 2 wire platinum RTD also available
Proof Pressure	1.5X with (25 psia min) 10X optional
Burst Pressure	3.0X (4500 secondary containment) (300 min) 15X optional
Excitation or Input Voltage	18V-36Vdc Unregulated
Reverse Polarity Protected	
Non-Repeatability	<0.1% FSO
Non-Linearity	<0.2% FSO
Hysteresis	<0.2% FSO
Thermal Error	Zero ± 0.5%/100F Span ± 0.5%/100F
Static Accuracy RSS	<0.3% FSO RSS, 0.1% optional
Error Band (all 5 parameters)	1.3% FSO, 1.0% optional
Pressure Medium (Wetted Materials)	316SS port, 15-5 sensor (Inconel, Hastelloy optional)
Temperature Compensation	-10°F to +180°F / -20°C to +80°C, expanded range optional
Operating/Environmental Temperature	-20°F to +190°F / -30°C to +90°C
Weight	5 oz. (some options may affect weight)
Pressure Port	MS 33656-4 (M)
Electrical Connector	PTIH-10-6P, MIL D38999 series III
Shunt Cal 80% / 100% Optional	Internal ±0.5% FS
Vibration, Shock, Acceleration F Design meets MIL-STD-810 requirement	25 Grms / 100G's pk/pk/3500 G Pyroshock /12g
Response Time	Under 4 ms
Meets MIL-STD 461 EMI/RFI	Some options will affect EMI/RFI rating

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: 7200-2-RH-A-CA/FD/GH

OUTPUT

- 2 0-5 Vdc 4 wire hookup
- 3 4-20 dcmA
- 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

PRESSURE RANGE (PSI)

- PJ 0-5* RH 0-500
- PN 0-10* RK 0-750
- PP 0-15* RM 0-1,000
- PR 0-20* RO 0-1,500
- PO 0-25* RR 0-2,000
- PV 0-50 RT 0-3,000
- PZ 0-100 RV 0-5,000
- RB 0-150 RX 0-7,500
- RD 0-200 RZ 0-10,000
- RF 0-300 SB 0-15,000

Contact factory for non-standard ranges
 *Can dia. 1.5"

PRESSURE TYPE

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

OPTIONS

CONNECTORS

- CA PTIH-10-6P Bendix
- CI D38999/27YB98PN
- DB D38999/27YA35PN

PORTS

- FA MS33649-4, 7/16-20 (F)
- FD MS33656-4, 7/16-20 (M)
- FJ 1/4" NPT (M)

MISC:

- D Improved Static Accuracy to 0.1% and Total Error Band to 1.0%
- GB Alternate full scale outputs
- GD 10X Proof Pressure (may affect overall performance, not available with options D, GP, GF, GK)
- GF Expanded process temperature range, -65 to 250°F (±2.3% FSO/100°F)
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- JA 100 ohm 2 wire RTD
- JB 1000 ohm 2 wire RTD
- ME Shunt Cal, 80% Internal
- MR Non-Standard Wiring