



DIGITALLY CORRECTED DIFFERENTIAL PRESSURE TRANSDUCER

Model 8400

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

- Ground Support Systems
- Ground & Engine Test
- Aircraft Systems / Avionics

FEATURES

- High accuracy, 0.08% RSS standard (0.05% RSS available)
- Stainless steel housing and sealed electronics
- Mechanical stops for overload protection
- Cavity material options for special environments
- 2000 PSI line pressure, 10,000 lb option
- 0-5 Vdc Isolated or 0-10 Vdc Isolated digitally corrected output
- Serial port (RS-232) controlled zero & span adjustment



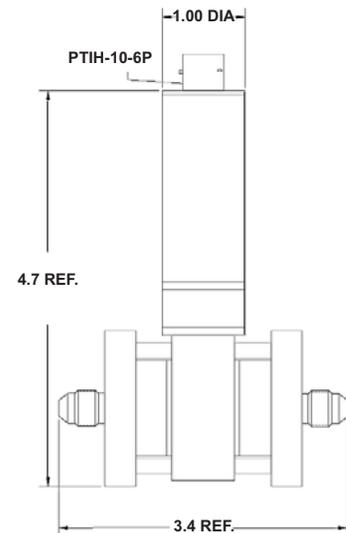
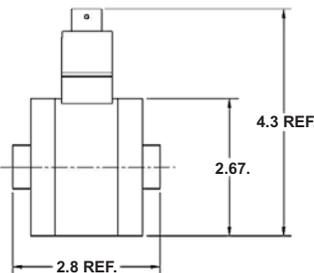
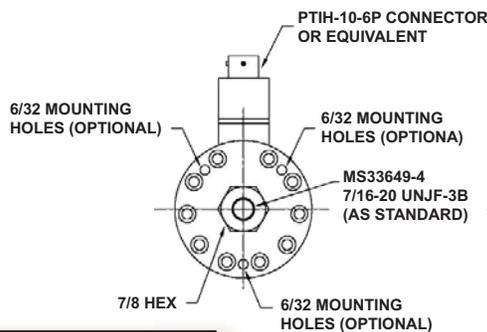
Heritage Includes

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

All GP:50 Aerospace differential 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.

	PIN OUT
A	+ EXC.
B	+ SIGNAL OUT
C	- SIGNAL OUT
D	- EXC.
E	TX
F	RX

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.



Pressure, Level & Temperature Transmitters & Transducers

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

Ranges	5 thru 5000 PSID / bi-directional or uni-directional
FS Output at Rated Pressure	0-5 Vdc Isolated or 0-10 Vdc Isolated Digitally corrected output
Differential Overload Pressure	2000 PSI may be applied to either port, 10,000 lb option
Zero Shift	<1% FSO with line pressure applied
Excitation or Input Voltage Reverse Polarity Protected	+10 thru +15 Vdc nonisolated, +18 thru +36 Vdc isolated
Non-Repeatability	<0.04% FSO
Non-Linearity	<0.05% FSO
Hysteresis	<0.05% FSO
Static Accuracy BFSL	0.08% FSO RSS, 0.05% optional
Wetted Materials	316SS (Inconel, Hastelloy optional)
Temperature Compensation	-10°F to +160°F standard, custom available
Operating/Environmental Temperature	-30°F to +170°F / -30°C to +255°C, -65°F to +250°F option
Weight	3.5 lbs. (some options may affect weight)
Pressure Port	MS 33656-4 (M) standard
Electrical Connector	PTIH-10-6P
Mechanical stops	Optional for overload protection
Response Time	Under 4 ms
Meets MIL-STD-461/462 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: 8400-4-RH-A-CA/FD/GH

OUTPUT

- 4 0-5 Vdc Isolated
- 6 0-10 Vdc Isolated

RANGE (PSI)

- PJ 0-5 RD 0-200
- PN 0-10 RF 0-300
- PP 0-15 RH 0-500
- PR 0-20 RK 0-750
- PO 0-25 RM 0-1,000
- PT 0-30 RO 0-1,500
- PV 0-50 RR 0-2,000
- PZ 0-100 RS 0-3,000
- RB 0-150 RV 0-5,000

PRESSURE TYPE

- D Differential

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)

MISC:

- D Improved Static Accuracy to 0.05%
- GB Alternate Full Scale Outputs
- GF Expanded process temperature range, -65 to 250°F (±2% FSO/100°F)
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- HM 10,000 psi Base Pressure Range Girdle. (Proof pressure 10X FSO or 10,000 psi, whichever is less. Burst pressure 15X FSO or 10,500 psi, whichever is less.)
- ME Shunt cal, 80% Internal
- MS Bi-Directional