

AEROSPACE DIFFERENTIAL PRESSURE TRANSDUCER

Model 7400

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



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

Heritage Includes:

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

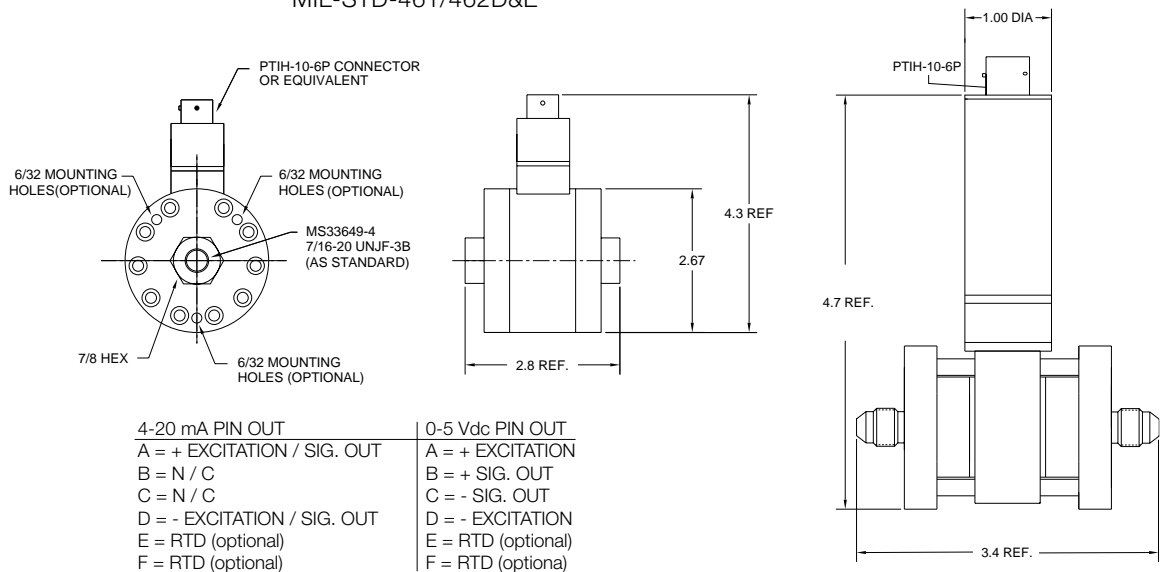
FEATURES:

- High accuracy and high repeatability
- Stainless steel housing and sealed electronics
- Mechanical stops for overload protection
- Cavity material options for special environments
- RTD temperature or shunt output option
- 2000 PSI line pressure, 10,000 lb option
- Low and high level outputs, 4-20 DCmA

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. See reverse side for specifications and ordering guide.

SPECIFICATIONS

These specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. Traceability, customer ATP, additional testing and construction options are available. We invite your inquiry.

Ranges	5 thru 5000 PSID / bi-directional or uni-directional
FS Output at Rated Pressure	0-5 Vdc / 4-20 dcmA / 0-10 Vdc
Proof Pressure	1.5X pressure range (may be applied to either side)
Burst Pressure	2.0X pressure range (may be applied to either side)
Maximum Line Pressure	7500 PSI
Zero Shift	< 1% FSO with line pressure applied
Excitation or Input Voltage	+18 thru +36 Vdc isolated
Reverse Polarity Protected	
Non-Repeatability	< 0.1% FSO
Non-Linearity	< 0.1% FSO
Hysteresis	< 0.2% FSO
Static Accuracy BFSL	0.2% FSO BFSL
Wetted Materials	316SS (Inconel, Hastelloy optional)
Temperature Compensation	-10°F to +160°F standard, custom available
Operating/Environmental Temperature	-30°F to +170°F / -34°C to +77°C, -65°F to +250°F option
Weight	3.5 lbs. (some options may affect weight)
Pressure Port	MS 33656-4 (M) standard 7/16-20
Electrical Connector	PTIH-10-6P
Mechanical Stops	Optional for proof pressure > 1.5X pressure range
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: 7400-2-RH-D-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

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 | 0-1000 |
| PT | 0-30 | RO | 0-1500 |
| PV | 0-50 | RR | 0-2000 |
| PZ | 0-100 | RS | 0-3000 |
| RB | 0-150 | RV | 0-5000 |

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)
(made with an adapter)

MISC:

- GB Alternate Full Scale Outputs
- GF Expanded Temperature Range, -65 to +250°F
(Compensated to ± 2% 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
- MS Bi-Directional

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