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:

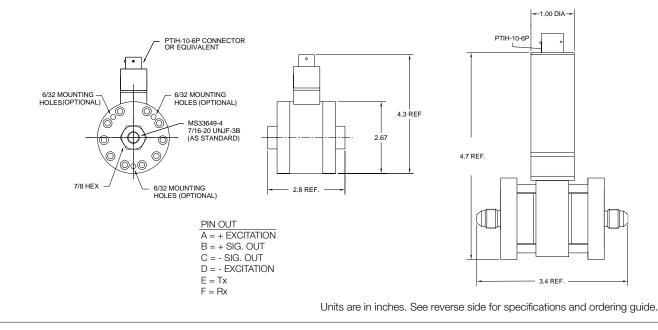
- High accuracy, 0.08% RSS standard (0.05% RSS available)
- Stainless steel housing and sealed electronics
- · Mechanical stops for overload protection
- Cavity material options for special environments
- 2000 PSI line pressure, 10,000 lb option
- 0-5 Vdc Isolated or 0-10Vdc Isolated digitally corrected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

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:

- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2000

Designed to:

MIL-STD-810C&E MIL-STD-461/462D&E



Heritage Includes:

NASA

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





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 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	+10 thru +15 Vdc nonisolated, +18 thru +36 Vdc isolated	
Reverse Polarity Protected		
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-D-CA/FD/GH

OUTPUT

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

RANGE (PSI)

ΡJ	0-5	RD	0-200
ΡN	0-10	RF	0-300
PP	0-15	RH	0-500
PR	0-20	RK	0-750
PO	0-25	RM	0-1000
ΡT	0-30	RO	0-1500
PV	0-50	RR	0-2000
ΡZ	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:

- D Improved Static Accuracy to 0.05%
- 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
- 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