

PRESSURE TRANSDUCER FOR CRYOGENIC ENVIRONMENTS Model 7720

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

- High Vibration Environments
- Extreme or Harsh Environments
- Manifolds, Propulsion Systems
- Military and Defense Applications

FEATURES:

- High accuracy, 0.3% RSS standard (0.1% available)
- -320°F to +70°F standard medium
- Lightweight, 8 ounces
- Hydrogen and LOX compatibility
- Designed to meet vibration and shock per MIL-STD-810

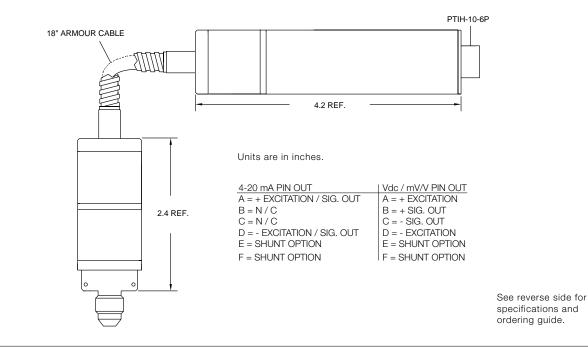
All GP:50 Aerospace pressure transducers are manufactured and tested to the following MIL-STD and MIL-Spec standards to insure the highest quality assurance:

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- NIST Traceability and CalibrationMIL-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



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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	15 thru 15,000 PSIA, PSIG or PSISG options	
FS Output at Rated Pressure	3 mV/V @ 10 Vdc / 0-5 Vdc / 4-20 dcmA / Isolated options	
Temperature Output	100 Ohm 2 wire platinum RTD optional,	
	1000 Ohm 2 wire platinum RTD also available	
Excitation or Input Voltage	18 to 36 Vdc / 9 to 36 Vdc Unregulated	
Reverse Polarity Protected		
Non-Repeatability	< 0.1% FSO	
Non-Linearity	< 0.2% FSO	
Hysteresis	< 0.2% FSO	
Static Accuracy RSS	< 0.3% FSO RSS, 0.1% optional	
Pressure Medium (Wetted Materials)	316SS (Inconel, Hastelloy, Monel optional)	
Operating/Environmental Temperature	-320°F to +70°F / -200°C to +20°C	
Weight	8 oz. (approx.)	
Electrical Connector	MIL PTIH-10-6P, D38999 series III optional	
Response Time	Under 4 ms	
Meets MIL-STD-461/462 EMI/RFI	Some options will affect EMI/RFI rating	
Flex Tubing	18" Armored Capillary Tube	

ORDERING GUIDE:

Some options will affect dimensions, consult factory if important.

Use the following codes to identify desired item.

SPECIFICATIONS

MODEL	OUTPUT	RANGE	PRESSURE TYPE	OPTIONS
• -	• • -	- • -	- • -	- •

Example: 7720-2-RH-G-CA/FD/GH

OUTPUT

- 1 3 mV/v
- 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
- 7 2 mV/V
- 8 10 mV/V
- 9 0-5 Vdc 3 wire hookup10 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 ΡV 0-50 RR 0-2000 ΡZ 0-100 RT 0-3000 RB 0-150 RV 0-5000 RD 0-200 RX 0-7500 RF 0-300 RZ 0-10,000 RH 0-500 SB 0-15,000 Contact factory for non-standard pressure ranges

PRESSURE TYPE

- A Sealed Absolute, ref to vacuum
- G Gage, ref to atmosphere
- SG Sealed Gage, 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) (made with an adapter)
- FD MS33656-4, 7/16-20 (M)

MISC:

- D Improved Static Accuracy to 0.1% and Total Error Band to 1.0%
- GB Alternate Full Scale Outputs
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- GU Monel Pressure Cavity
- JA 100 ohm 2 wire RTD
- JB 1000 ohm 2 wire RTD
- ME Shunt Cal, 80% Internal

FLEX TUBING:

- GT 30" Armored Capillary Tube
- HS 9" Armored Capillary Tube
- HV 24" Armored Capillary Tube
- HY 12" Armored Capillary Tube
- MT Non-standard Armored Capillary Tube (50" max)

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.