



# SPACE QUALIFIED HIGH LEVEL, LOW NOISE PRESSURE TRANSDUCER

## Model 7201

Designed for the tough challenges and environmental rigors of satellite and space applications.

### FEATURES:

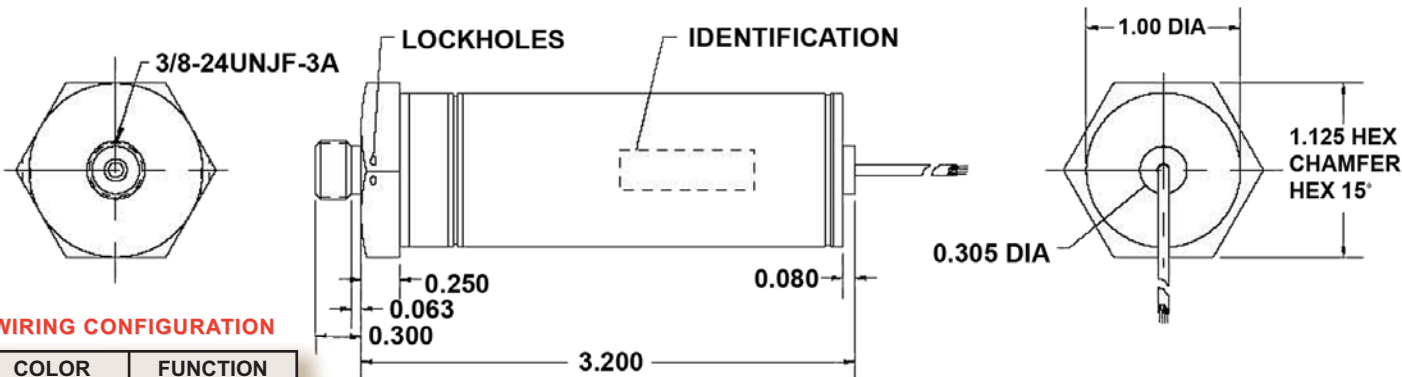
- High accuracy, < 0.3% FSO RSS
- "S" Class electronics
- Rad-Hard 75 KRAD
- 0-5 Vdc output
- < 3 mV noise on output
- Strength and Stress Analysis Report
- Material Identification Usage List
- Design life to meet 7 year LEO requirements
- Complete electronics and mechanical parts traceability
- Acceptance test documents, qualification test documents
- Shock, Vibration Space Qualified
- Cycle tested to meet 7 year LEO requirements
- Designed for High Vacuum atmosphere applications
- Shop traveler controlled assembly
- Completely assembled in clean room environment
- Quality control inspection stop points during assembly
- Lightweight, small size, < 140 grams
- Hermetically sealed (with connector options)
- Program managed, scheduled process
- Qualified packaging to FED-STD-101 Method 5005/5007



All GP:50 Aerospace pressure transducers are manufactured and tested to the following 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



### WIRING CONFIGURATION

COLOR	FUNCTION
ORANGE	+15Vdc EXC.
GREEN	+ OUTPUT
WHITE	- OUTPUT
BLUE	- EXC.

Units are in inches.

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.

A5SL-7201.00 Rev A



# Pressure, Level & Temperature Transmitters & Transducers

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

Ranges	15 thru 15,000 PSIA
FS Output at Rated Pressure	0-5 Vdc
Proof Pressure	1.5X with 25 psia min
Burst Pressure	2.5X with 300 psia min)
Excitation or Input Voltage Reverse Polarity Protected	15Vdc Regulated
Non-Repeatability	< 0.1% FSO
Non-Linearity	< 0.2% FSO
Hysteresis	< 0.2% FSO
Static Accuracy RSS	< 0.3% FSO RSS
Error Band (all 5 parameters)	1.0% FSO
Pressure Medium (Wetted Materials)	Inconel 718 Sensor, all other parts 625
Temperature Compensation	-4°F to +104°F / -20°C to +40°C
Operating/Environmental Temperature	-75°F to +250°F / -60°C to +120°C
Weight	< 140 grams
Pressure Port	3/8-24 UNJF-3A
Electrical Connector	Tefzel 32 AWG wire
Vibration, Shock Qualified to MIL-STD-810C&E requirement	Better than 70 grms composite random, 4000 G's pyroshock, 7.0 G's sinusoidal
Response Time	Under 4 ms
Designs exceeds MIL-STD-461/462 EMI/RFI	

## 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: 7201-2-RH-A-CA/FD/GH

### OUTPUT

2 0-5 Vdc

### RANGE (PSI)

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

### PRESSURE TYPE

A Absolute, ref to vacuum

### 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)