



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

sales@gp50.com • www.gp50.com

SPACE QUALIFIED HIGH LEVEL, LOW NOISE PRESSURE TRANSDUCER Model 7201

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

FEATURES:

- Space Flight Qualified.
- High accuracy, < 0.3% FSO RSS
- "S" Class electronics & Rad-Hard to 40 KRAD
- 0-5 Vdc output
- Design life to meet 7 year LEO requirements
- Full traceability
- Shock & Vibration Space Qualified
- Lightweight & compact size, <140 grams
- Qualified packaging to FED-STD-101 Method 5005/5007
- Standard Transducer internal materials qualified for space flight per MSFC-HDBK-527



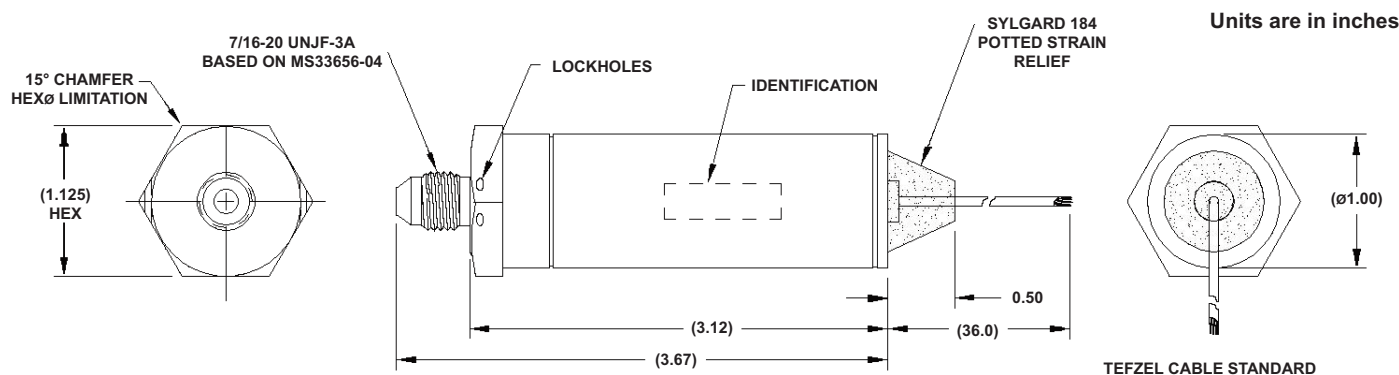
Heritage Includes:

- Lockheed Martin Space Systems

Model 7201 series is manufactured and tested to the following MIL-STD & MIL-Specs to insure the highest quality:

- NIST Traceability and Calibration..... ANSI-Z540-1
- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2008

Designed to: MIL-STD-810
MIL-STD-461



WIRING CODE

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

A5SL-7201.00 Rev B

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.



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

Ranges	50 thru 15,000 PSIA
Output	0-5 Vdc
Proof Pressure	1.5 X Pressure Range
Burst Pressure	2.5 X Pressure Range
Zero Balance / Span Balance	±0.5% FSO Each
Static Accuracy (RSS)	<±0.3% FSO
Non-Repeatability	<±0.1% FSO
Non-Linearity (Terminal)	<±0.2% FSO
Hysteresis	<±0.2% FSO
Thermal Error	Zero ±0.4% FSO over CTR Span ±0.4% FSO over CTR
Total Error Band (all 5 parameters)	±1.0% FSO
Response Time	< 4 ms
Excitation	15 Vdc + 50 mV (Regulated, Reverse Polarity Protected)
Input Current	25 mA nominal
Output Current (VDC Units)	2 mA max for <0.1% FSO attenuation
Temperature Limits Compensated (CTR) Operating	-4°F to +104°F (-20°C to +40°C) -75°F to +250°F (-60°C to +120°C)
Vibration, Shock (Qualified to MIL-STD-810 requirements)	Better than 70 grms composite random, 4000 G's pyroshock, 7.0 G's sinusoidal
Wetted Parts	Inconel 718 Sensor & Inconel 625 Port
Pressure Port	3/8-24 UNJF-3A
Electrical Hook-up	Tefzel cable with 4 conductor 32 AWG wire
Weight	<140 grams
Design meets MIL-STD-461/EMI/RFI	Some options may 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: 7201-2-RH-A-CA/FD/GH

OUTPUT

- 2 0-5 Vdc (Non-isolated, 4 wire hookup)
9 0-5 Vdc (3 wire hookup)

RANGE

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

PRESSURE TYPE

- A Absolute, ref to vacuum
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)
FD MS33656-4, 7/16-20 (M)