



Pressure, Level & Temperature Transmitters & Transducers

U.K. Distributor; Interface Force Measurements

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FLIGHT QUALIFIED HIGH LEVEL DIGITALLY CORRECTED PRESSURE TRANSDUCER

Model 8200

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

FEATURES:

- High accuracy, 0.08% RSS standard (0.05% RSS available)
- Proprietary mechanical isolation of the sensor for zero stability
- Cavity material options for extreme environments
- 10X overload option
- 0-5 Vdc Isolated or 0-10 Vdc Isolated digitally corrected output
- 100 G's Pk/Pk (3500 G shock), 1 Hr / Axis qualified
- Over 1,000,000 continuous cycles
- "B+" and "S" class electronics available
- Cleaning to MIL-STD-1246 available
- Serial port (RS-232) controlled zero & span adjustment

Typical Applications:

- Satellites: Commercial and Defense
- Ground & Engine Test
- Launch Vehicles
- Aircraft Systems / Avionics

Heritage Includes

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

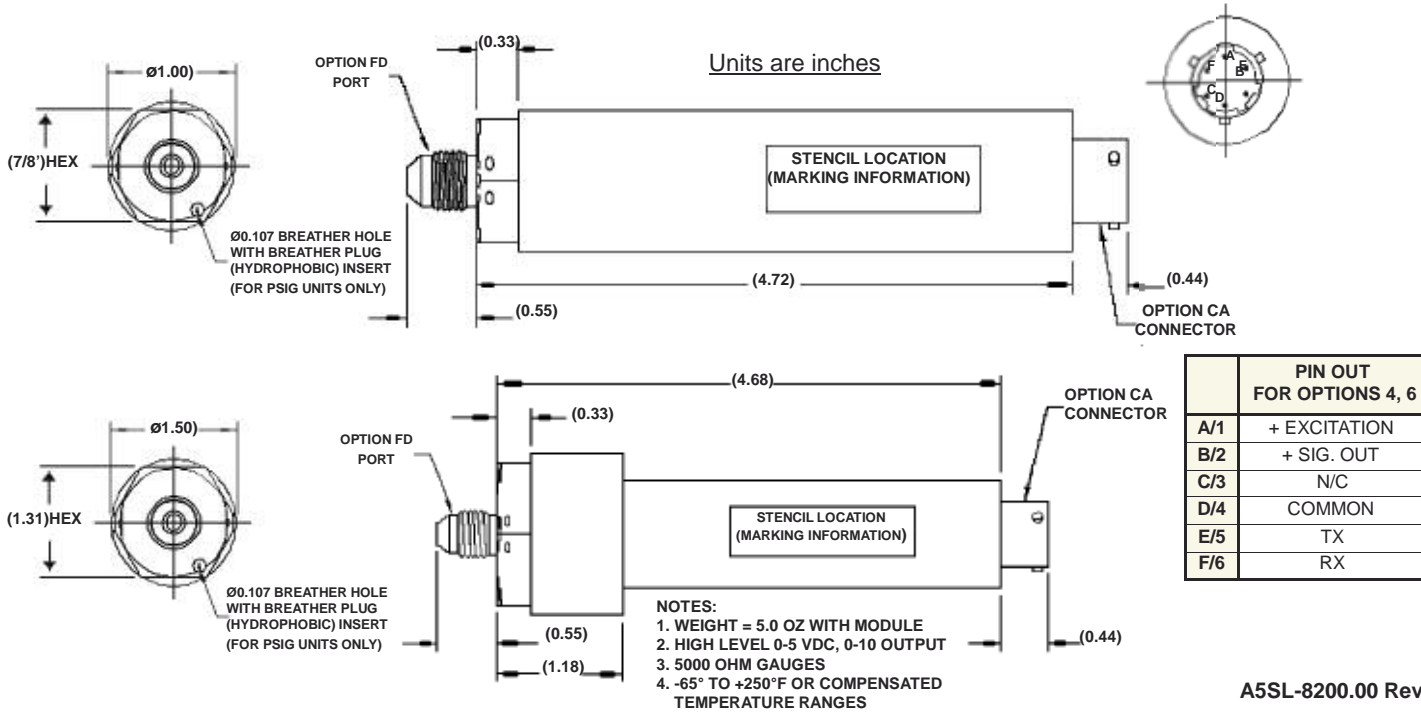


All GP:50 Aerospace pressure transducers are manufactured and tested to the following MIL-STD and MIL-Spec standards to insure the highest quality assurance:

- NIST Traceability and Calibration..... MIL-STD-45662A
- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2008

Designed to: MIL-STD-810F All Methods
MIL-STD-461E

SEE INSTALLATION MANUAL FOR PINOUT ASSIGNMENT BASED ON ELECTRONICS OPTIONS



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

Ranges	3 thru 15,000 PSIA, PSIG or PSISG options
FS Output at Rated Pressure	0-5 Vdc Isolated or 0-10 Vdc Isolated Digitally corrected output
Proof Pressure	1.5X with 25 psia min, 10X optional
Burst Pressure	3.0X (4500 secondary containment) (300 min)
Excitation or Input Voltage Reverse Polarity Protected	18 V - 36 Vdc Unregulated, +12, +15 Vdc Regulated
Non-Repeatability	<0.04% FSO
Non-Linearity	<0.05% FSO
Hysteresis	<0.05% FSO
Thermal Error	Zero 0.225% FSO / 100°F Span 0.225% FSO / 100°F
Static Accuracy RSS	<0.08% FSO RSS, 0.05% optional
Error Band (all 5 parameters)	0.5% FSO
Pressure Medium (Wetted Materials)	316SS port, 15-5 sensor (Inconel, Hastelloy optional)
Temperature Compensation	-10°F to +180°F / -20°C to +80°C, expanded range optional
Operating/Environmental Temperature	-20°F to +190°F / -30°C to +90°C
Weight	5 oz. (some options may affect weight)
Pressure Port	MS 33656-4 (M)
Electrical Connector	PTIH-10-6P, MIL D38999 series III
Shunt Cal 80% Option	Internal
Vibration, Shock, Acceleration Designs meets MIL-STD-810C&E requirement	25 Grms / 100G's Pk/Pk / 3500 G Pyroshock / 12g
Response Time	500 ms (12 BIT Processor)
Meets MIL-STD-461/462 EMI/RFI & 810C & E	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: 8200-4-RH-A-CA/FD/GH

OUTPUT

- 2 0-5 Vdc 4 wire (Non-Isolated)
- 4 0-5 Vdc 4 wire (Isolated)
- 5 0-10 Vdc 4 wire (Non-Isolated)
- 6 0-10 Vdc 4 wire (Isolated)
- 9 0-5 Vdc 3 wire (Non-Isolated)
- 10 0-10 Vdc 3 wire (Non-Isolated)

RANGE (PSI)

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

*Can dia. 1.5"

Contact factory for non-standard pressure ranges.

PRESSURE TYPE

- A Sealed Absolute, ref to vacuum
- G Gauge, ref to atmosphere
- SG Sealed Gauge, 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)

MISC:

- D Improved Static Accuracy to 0.05%
- GB Alternate Full Scale Outputs
- GD 10X Proof Pressure (may affect overall performance, not available with options D,GF,GK,GP)
Option GD (Not available on low pressure transducer)
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- MR Non-Standard Wiring

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