



SUBMERSIBLE PRESSURE TRANSDUCER

Model 7500

Designed for the tough challenges and environmental rigors of oilfield, downhole, and deep sea ocean applications.

FEATURES:

- Submersible to 22,000 feet seawater (options may affect operating depth)
- Optional reference standards, PSIA, PSIS, PSIG, PSID
- Isolated, 0-5 Vdc, 0-10 Vdc, 4-20 DCmA outputs
- Cavity material options for special environments
- High accuracy, 0.3% RSS standard (0.1% RSS available)
- Designed for over 1,000,000 continuous cycles
- RTD temperature output optional



- Depth / Level Sensing
- Seawater Submersible, DSRV's and ROV's
- Oil Platform and Downhole Applications
- Ocean Pump Stations

Heritage Includes:

- Perry Tritech
- GD Electric Boat
- Oceaneering

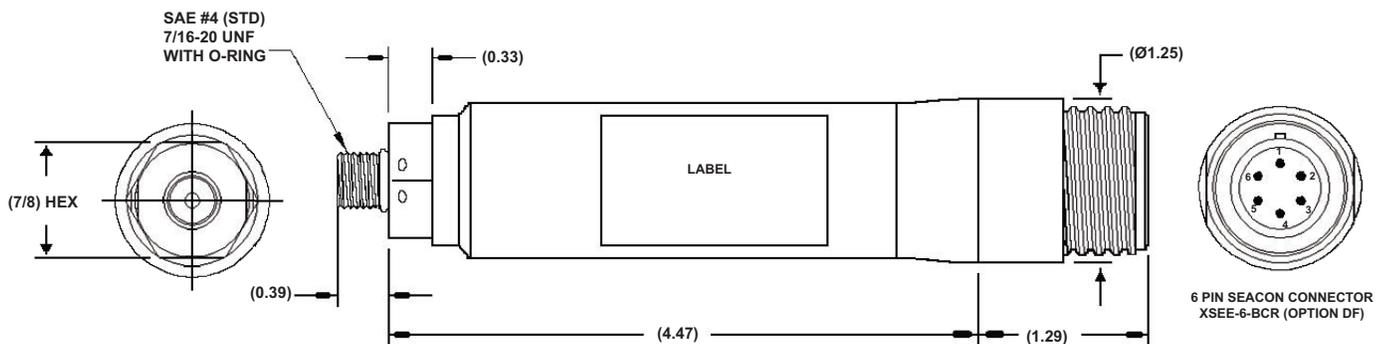
All GP:50 Aerospace differential transducers are manufactured and tested to the following MIL-STD and MIL-Spec standards to insure the highest quality assurance:

- NIST Traceability and Calibration..... MIL-STD - 45662A
- Workmanship J-001 / NASA 8739.3 standards
- Quality System ISO 9001:2000

Transducer Design Meets: MIL-STD-810F For Shock/Vibration/Acceleration
MIL-STD-461E

SEE INSTALLATION MANUAL FOR PINOUT ASSIGNMENT BASED ON ELECTRONICS OPTIONS

Units are inches



4-20 mA PIN OUT OPTION 3	
PIN 1	+ EXCIT. / SIG. OUT
PIN 2	- EXCIT. / SIG. OUT

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.



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 20,000 PSIA, PSIG or PSISG options
FS Output at Rated Pressure	3 mV/V at 10 Vdc / 0-5 Vdc / 4-20 dcmA / 0-5 Vdc isolated / 0-10 Vdc
Temperature Output	100 ohm 2 wire platinum RTD optional
Proof Pressure	1.5X
Burst Pressure	3.0X
Excitation or Input Voltage Reverse Polarity Protected	+10 thru +15 Vdc nonisolated, +18 thru +36 Vdc isolated
Non-Repeatability	<0.1% FSO
Non-Linearity	<0.2% FSO (Terminal Method)
Hysteresis	<0.2% FSO
Thermal Error	Zero $\pm 0.5\%$ / 100F Span $\pm 0.5\%$ / 100F
Total Error	1.3% FS (All 5 Parameters)
Static Accuracy RSS	<0.3% FSO RSS, 0.1% optional
Wetted Materials	316SS (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	8 oz. (some options may affect weight)
Pressure Port	SAE 4 (M), options available
Electrical Connector	SEACON XSJJ-2 BCR 2 pin connector
Shunt Cal 80% / 100% Option	Internal $\pm 0.5\%$ FS
Response Time	Under 4 ms
Meets MIL-STD 461 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: 7500-3-RH-A-DH/FJ

OUTPUT

- 1 3 mV/V
- 2 0-5 Vdc 4 wire hookup (Non-Isolated)
- 3 4-20 dcmA
- 4 0-5 Vdc Isolated
- 5 0-10 Vdc 4 wire hookup (Non-Isolated)
- 6 0-10 Vdc Isolated
- 7 2 mV/V
- 8 10 mV/V
- 9 0-5 Vdc 3 wire hookup (Non-Isolated)
- 10 0-10 Vdc 3 wire hookup (Non-Isolated)

PRESSURE RANGE (PSI)

- | | |
|------------|-------------|
| 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 | SD 0-20,000 |

PRESSURE TYPE

- A Absolute, ref to vacuum
- SG Sealed Gauge, ref to 14.7 psia

OPTIONS

CONNECTORS

- DF XSEE-6-BCR (Seacon 6-pin)
- DH XSJJ-2-BCR (Seacon 2-pin)
- DJ XSJJ-4-BCR (Seacon 4-pin)

PORTS

- FA MS33649-4, 7/16-20 (F)
- DE MS33656-4, 7/16-20 (M)
- FJ 1/4" NPT

MISC:

- D Improved Static Accuracy to 0.1% and Total Error Band to 1.0%
- GB Alternate Full Scale Outputs
- GF Expanded process temperature range, -65 to 250°F ($\pm 2\%$ FSO/100°F)
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- JA 100 ohm 2 wire RTD
- JB 1000 ohm 2 wire RTD
- ME Shunt cal, 80% Internal
- QU Monel Pressure Cavity
- MR Non-Standard Wiring

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