



SUB SEA PRESSURE / LEVEL TRANSDUCER

Model 7500

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

FEATURES:

- Submersible to 23,000 feet seawater
- Standard Ranges to 15,000 PSI (Higher optional ranges)
- 0-5 Vdc, 0-10 Vdc & 4-20 mA outputs
- Rated for Sea water (Exotic materials available)
- High accuracy 0.3% RSS (0.1% RSS available)
- Temperature output available

Typical Applications:

- DSRV's and ROV's
- Oil Platform & Down hole applications
- Ocean Pump Stations

Heritage Includes:

- Perry Tritech
- GD Electric Boat
- Oceaneering

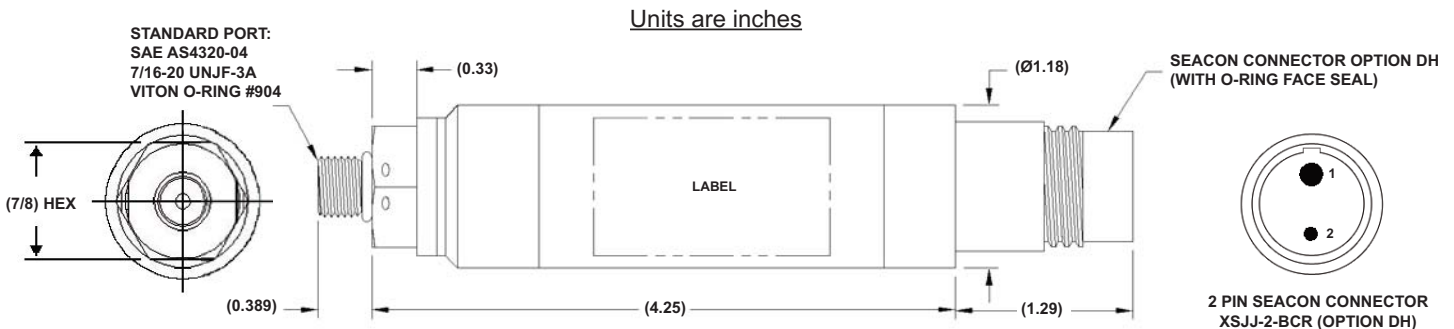


GP:50 Aerospace transducers are manufactured and tested to the following MIL-STD & MIL-Spec to insure the highest quality:

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

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

SEE INSTALLATION MANUAL FOR PINOUT ASSIGNMENT BASED ON ELECTRONICS OPTIONS



WIRING CODE

| PIN | 4-20 MA | 4-WIRE MV/V & VDC ISOLATED | 4- WIRE VDC NON-ISOLATED * | 3-WIRE VDC |
|-----|----------|----------------------------|----------------------------|------------|
| A/1 | +EXC/SIG | +EXC | +EXC | +EXC |
| B/2 | N/C | +SIG | +SIG | +SIG |
| C/3 | N/C | -SIG | -SIG * | N/C |
| D/4 | -EXC/SIG | -EXC | -EXC * | -EXC/-SIG |
| E/5 | N/C | N/C | N/C | N/C |
| F/6 | N/C | N/C | N/C | N/C |

* COMMONS JUMPERED

STANDARD WIRING.
OPTIONS MAY AFFECT PIN OUT

A5SL-7500.00 Rev E



Pressure, Level & Temperature Transmitters & Transducers

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

| | |
|---|---|
| Ranges | 50 thru 15,000 PSID (Optional higher ranges available) |
| Proof Pressure | 1.5 X Pressure Range or 22,500 psi whichever is less |
| Burst Pressure | 3.0 X Pressure Range or 23,000 psi whichever is less |
| Zero Balance / Span Balance | ±0.5% FSO Each |
| Static Accuracy (BFSL) | <±0.3% FSO (0.1% FSO optional) |
| Non-Repeatability | <±0.1% FSO |
| Non-Linearity (BFSL) | <±0.2% FSO |
| Hysteresis | <±0.2% FSO |
| Thermal Error | Zero ±0.5% FSO / 100° F Span ±0.5% FSO / 100° F |
| Total Error Band (all 5 parameters) | ±1.3% FSO |
| Response Time | < 4 ms |
| Excitation | 18V - 36 Vdc (others available) |
| Input Current | 4-Wire Isolated Vdc Options - 45mA nominal / Non-Isolated Vdc -10mA nominal |
| Output Current (VDC Units) | 2 mA max for <0.1% FSO attenuation |
| Load Impedance (4-20mA Units) | 1,350 ohms max. at 36 Vdc, 750 ohms max. at 24 Vdc, 300 ohms max. at 18 Vdc |
| Temperature Limits Compensated Operating | -30°F to +160°F (-34°C to 71°C) -40°F to 190°F (-40°C to 88°C) |
| Random Vibration | >75 GRMS (20 Hz to 2,000 Hz) |
| Sinusoidal Vibration | 7.5 G's (5 Hz to 100 Hz) |
| Shock | > 4,000 G's |
| Constant Acceleration | 5 G's for 30 minutes |
| Wetted Parts | 17-4 PH SST (Inconel or Hastelloy optional) |
| Pressure Port | SAE 4 (M), (7/16-20 UNF-2A) standard |
| Electrical Connector | SEACON XSJJ-2 BCR 2 pin connector (Other options available) |
| Weight | 12 oz. (some options may affect weight) |

ORDERING GUIDE:

| MODEL | OUTPUT | RANGE | PRESSURE TYPE | OPTIONS |
|-------|--------|-------|---------------|---------|
| ● | — | ● | — | ● |

Example: 7500-3-RH-A-DH/FJ

OUTPUT

- 2 0-5 Vdc (Non-Isolated, 4 wire hookup)
- 3 4-20 dcmA (recommended for long supply cable runs)
- 4 0-5 Vdc (Isolated, 4 wire hookup)
- 5 0-10 Vdc (Non-Isolated, 4 wire hookup)
- 6 0-10 Vdc (Isolated, 4 wire hookup)
- 9 0-5 Vdc (3 wire hookup)
- 10 0-10 Vdc (3 wire hookup)

Isolated=Input isolated from Output signal

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 | | |

PRESSURE TYPE

- A Absolute, ref to vacuum
- SG Sealed Gauge, ref to 14.7 psia
- G Available for oil compensated units only.

Some options will affect dimensions, consult factory if important. Use the following codes to identify desired item.

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)
- FD 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, -40 to 200°F (±2% FSO/100°F) not available with option D
- GH 100% Internal Shunt
- GK Inconel Pressure Cavity
- GL Cleaning for oxygen service
- GP Hastelloy Pressure Cavity
- JA 100 ohm 2 wire Platinum RTD, 0.0385 alpha
- JB 1000 ohm 2 wire Platinum RTD, 0.0385 alpha
- ME Shunt cal, 80% Internal
- QU Monel Pressure Cavity
- MR Non-Standard Wiring
- HL Add EMI/RFI Meets MIL-STD 461

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