



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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

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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 Trittech
- GD Electric Boat
- Oceaneering

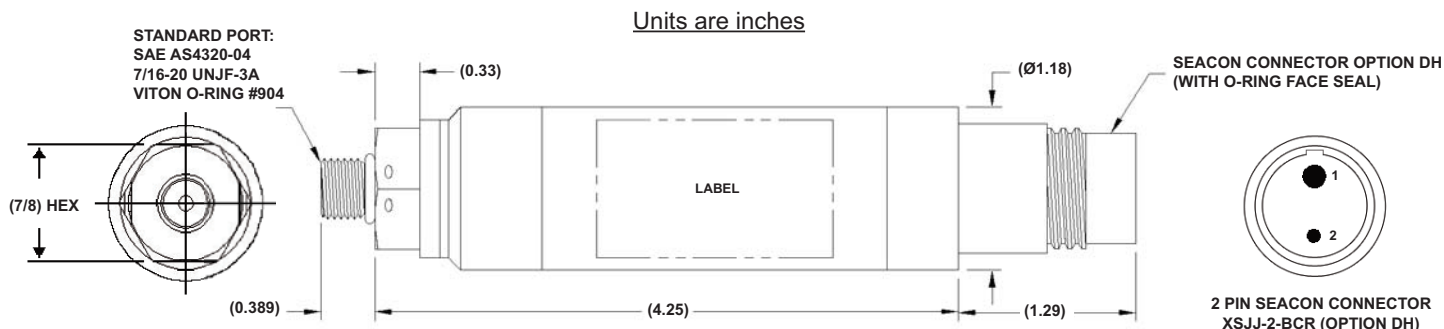


GP:50 Aerospace transducers are manufactured and tested to the following MIL-STD & MIL-Spec to insure the highest quality:

- 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

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 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