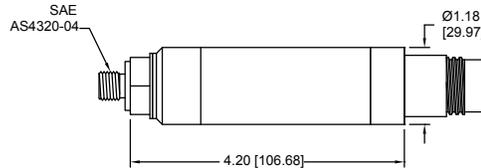




GP:50 Aerospace Heritage products can be designed to meet various MIL Specifications. Consult factory.

MODEL 7500 SUB SEA PRESSURE / LEVEL TRANSDUCER



STANDARD WIRING

PIN	4-20mA	4-WIRE 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

**REF DIMENSIONS ONLY.
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

PRODUCT OVERVIEW:

The Model 7500 from GP:50 is a rugged, sub-sea rated pressure transducer, tested to 30,000 FT sea water. The highly corrosion resistant design meets the tough environmental challenges of offshore oil and gas, Naval and ROV applications. The high reliability of the Model 7500 is field proven over 25 years and hundreds of applications, including higher shock and vibration environments.

FEATURES:

- Depth rated to 30K ft WC (9,144 meters)
- Pressure ranges up to 20K PSI (1,379 BAR)
- High accuracy 0.3% RSS (0.15% RSS available)
- Compact, sea water rated design
- Temperature output options

APPLICATIONS:

- Military and commercial ROV's
- Subsea oil and gas
- Naval exploration
- Ground and engine testing

OPTIONS:

- 0 to 5 Vdc, 0 to 10 Vdc or 4-20 mA output
- RS232, RS485 and Can protocols available
- Inconel, 316L or Hastelloy wetted parts
- Wide selection of subsea rated electrical and process connections.
- Various MIL-SPECS available. Consult factory.



GP:50 MODEL 7500

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	0 to 5 Vdc, 0 to 10 Vdc or 4-20 mA (optional digital protocols)
Temperature Output:	100 Ohm 2 wire Platinum RTD 0.00385 Alpha $\Omega/\Omega/\text{deg C}$, Class B 1000 Ohm 2 wire Platinum RTD 0.00385 Alpha $\Omega/\Omega/\text{deg C}$, Class B
Excitation Voltage:	18 V to 36 Vdc (others available)
Response Time:	2 ms typical

MATERIALS OF CONSTRUCTION	
Wetted Parts:	Standard: Inconel (17-4 PH or 316L pressure range dependent, Hastelloy and Monel available)
Housing:	316L Stainless Steel

ACCURACY (RSS): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Static Accuracy (RSS):	$\leq \pm 0.3\%$ FSO
Non-linearity	$\leq \pm 0.20\%$ FSO (Typ)
Hysteresis:	$\leq \pm 0.2\%$ FSO (Typ)
Repeatability:	$\leq \pm 0.1\%$ FSO (Typ)
Zero Balance:	$\pm 0.5\%$ FSO
Span Balance:	$\pm 0.5\%$ FSO

(BFSL method used. Improved options available.)

Calibration:	NIST Traceable Cert
Workmanship:	IPC-A-610 Soldering
Quality System:	AS9100

Options may affect specifications.
Please consult factory for your specific needs.

MECHANICAL	
Process Connection:	SAE AS4320-04 (M) (7/16-20 UNF) (options available)
Electrical Connection:	XSJJ-2-BCR (Seacon 2-pin) standard, options available
Proof Pressure:	1.5X pressure or 22.5K PSI (1,551 BAR), whichever is less
Burst Pressure:	3.0X pressure range or 23.5K PSI (1,620 BAR), whichever is less
Random Vibration:	>25 G RMS (20 Hz to 2,000 Hz)
Sinusoidal Vibration:	>7.5 G's 5 Hz to 100 Hz
Pyroshock:	>2,500 G's / 12 g
Constant Acceleration:	5 G's for 30 minutes
Approximate Weight:	12 oz (0.3 kg) (some options may affect weight)

PRESSURE RANGES	
0 to 50 thru 0 to 20K PSI (3.4 thru 1,379 BAR)	

THERMAL SPECIFICATIONS	
Operating Range:	-10°F to +190 °F (-23 °C to +88 °C)
Compensated Range:	-10 °F to +180 °F (-23 °C to +82 °C) (Connector and cable rating may affect this)
Expanded Compensation from -65 °F to +250 °F (-54 °C to +121 °C)	
Effect on Zero & Span:	$\pm 1.0\%$ FSO/100 °F (Improved specifications available)

