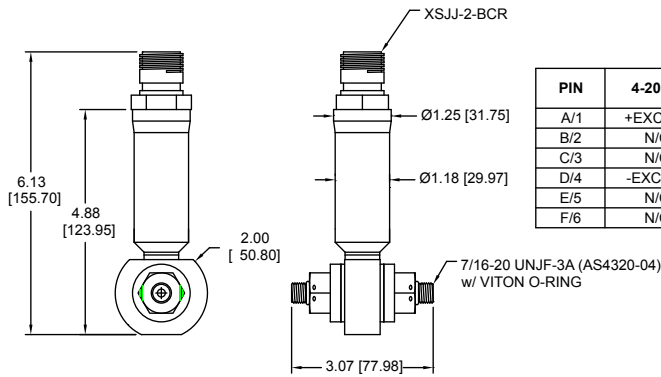




## MODEL 7540

### SUBSEA DIFFERENTIAL PRESSURE 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

Inches (mm)

Standard configurations shown.  
Please consult factory for other options.

#### PRODUCT OVERVIEW:

The Model 7540 from GP:50 is a highly rugged differential pressure transducer, designed to address the tough environmental challenges of subsea and other marine service environments. It is designed for applications in which higher shock and vibration levels may be present providing high-reliability within extreme environments.

#### FEATURES:

- Ranges from 30 thru 7,500 PSID (2 thru 517 BAR)
- Up to 10K PSI (689 BAR) line and proof pressure
- Depths to 30,000 FTWC (9,144 meters)
- Compact, seawater rated design
- NIST traceable
- Optional improved accuracy to  $\pm 0.05\%$  FSO (BFSL)

#### APPLICATIONS:

- Submarine hydraulic systems
- Submarine propulsion systems
- Subsea oil wellhead pressures
- BOP control systems

#### OPTIONS:

- 0-5 Vdc, 0-10 Vdc or 4-20 mA output
- Optional digital output (CAN Bus, RS485, USB)
- 316L stainless steel, Inconel or Hastelloy construction
- 10K PSI (689 BAR) static line pressure
- Wide selection of subsea rated connectors
- Bidirectional or unidirectional output
- RS232 and CAN Bus options available, consult factory
- Various MIL-SPECS available. Consult factory.

# GP:50 MODEL 7540

## REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	0-5 Vdc, 0-10 Vdc and 4-20 mA (CAN Bus RS485 and USB)
Digital Output:	CAN Bus, RS485, or USB optional
Excitation Voltage:	18 to 36 Vdc (Vdc output) 9 to 36 Vdc (4-20 mA output)
Circuit Protection:	EMI and RFI protection
Response Time:	<4 ms

MATERIALS OF CONSTRUCTION	
Wetted Parts:	316L Stainless Steel and Inconel 718
Housing:	316L Stainless Steel (Optional Inconel, Hastelloy and Monel)
Internal Fill:	Silicone 200

ACCURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F	
Static Accuracy (RSS):	$\leq \pm 0.3\%$ FSO
Non-linearity:	$\leq \pm 0.20\%$ FSO (Typ)
Hysteresis:	$\leq \pm 0.1\%$ 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:	ISO 9001

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

MECHANICAL	
Process Connection:	7/16-20 UNJF-3A (AS4320-04)
Electrical Connection:	XSJJ-2-BCR (Seacon 2-pin) standard, other options available, consult factory
Proof Pressure:	2X Pressure Range or 10K PSI (689 BAR), whichever is less (10X optional)
Burst Pressure:	3X Pressure Range or 10.5K PSI (724 BAR), whichever is less (15X optional)
Line Pressure:	3K PSI (207 BAR), optional 10K PSI (689 BAR)
Line Pressure Effect (Zero):	< $\pm 1\%$ FSO at 1K PSI (69 BAR) < $\pm 2\%$ FSO at 3K PSI (207 BAR) < $\pm 5\%$ FSO at 10K PSI option (689 BAR)
Approximate Weight:	2 lbs (0.9 kg) some options may affect weight

PRESSURE RANGES	
30 thru 7,500 PSID (2.1 thru 517.1 BAR) bidirectional or unidirectional	

THERMAL SPECIFICATIONS	
Operating Range:	-65 °F to +250 °F (-54 °C to +121 °C)
Compensated Range:	0 °F to +180 °F (-18 °C to +82 °C) (Connector and cable rating may affect this)
Compensated Ranges from -65 °F to +250 °F (-54 °C to +121 °C) available	
Effect on Zero & Span:	$\pm 1.0\%$ FSO/100 °F (Improved specifications available)

