



## Model 3000 Hydraulic Pressure Transducer

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC (Optional 1-5 VDC, mV/V)
- 0.25% & 0.08% BFSL (Standard) - 0.04% BFSL includes 16 Point Calibration with Certificate
- 1/4" NPT, SAE-4, F-250C process connections standard – contact factory for other options
- Standard ranges from 0-5 psi to 0-40000 psi
- Designed specifically for applications subjected to high shock and vibration
- Duplicate any customer's process and electrical connection for transparent replacement

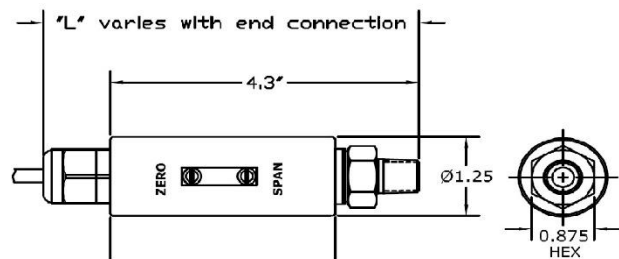
*The rugged design of the Model 3000 Hydraulic Pressure Transducer makes it the ideal choice when application conditions such as high vibration, shock and temperature extremes are present*



### FEATURES:

- Proprietary Fused Bond Sensor
- Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)
- RFI/EMI Protection on every unit
- Unparalleled long-term stability
- External Zero & Span Controls available

### REFERENCE DIMENSIONS:



Spectre Corp  
7912 Root Road  
Suite C/D  
North Ridgeville, Ohio 44039



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Ordering Guide: 3000-A-(0-5000PSI)-2-D-5-EC1-OP5

A	(0-5000)	2	D	5	EC1
PRESSURE PORT	RANGE <sup>1</sup>	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR <sup>2</sup>
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	25 = 0.25%	EC1 = 36" PIGTAIL <sup>3</sup>
B = SAE-4 MALE	BAR	2 = GAUGE	E = 0-5 VDC	08 = 0.08%	EC2 = LARGE DIN 43650, FORM A
C = OTHER	KPA	3 = VACUUM	F = 0-10 VDC	04 = 0.04%	EC3 = MINI DIN 4365, FORM C
D = 1/8" MNPT	INCHES WC	4 = SEALED	M = mV/V		EC4 = BENDIX PTIH-10-6P
E = F-250C	TORR	5 = COMPOUND			ECT = TURCK M12
		6 = OTHER			ECX = OTHER

<sup>1</sup> OTHER RANGES AVAILABLE, CONSULT FACTORY

<sup>2</sup> CUSTOM PINOUTS/WIRING AVAILABLE

<sup>3</sup> PVC STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST

OP5 OPTIONS
OP1 = NIST CALIBRATION WITH CERTIFICATE
OP5 = ZERO & SPAN CONTROLS
OP8 = INTERNAL SHUNT CAL RESISTOR (80% FS)
OPX = OTHER (SPECIFY)

TYPICAL APPLICATIONS
Industrial OEM Equipment
Injection Molding
Die Casting
Hydraulic Systems with Pressure Spikes or High Cyclic Conditions

Performance @ 25 °C
Accuracy: <math>\pm 0.25\%</math> BFSL to 0.04% BFSL <sup>4</sup>
Stability: (2 year): <math>\pm 0.04\%</math> FSO, Typical
Overpressure Protection: 2X Rated Pressure
Burst Pressure: 5X or 20000 PSI (lesser)
Pressure Cycles: > 50 Million
Temperature Range: -40°C to +85°C
Response: $\leq 5$ ms to 90%

Environmental Data
<b>Temperature</b>
Operating: -40°C to 85°C
Storage: -50°C to 125°C
<b>Thermal Limits</b>
Compensated Range: 0°C to 85°C
Thermal Effect Zero: $\leq \pm 1.5\%$ FS
Thermal Effect Span: $\leq \pm 1.5\%$ FS

Physical Data
<b>Sensor</b>
Wetted Material: 316 SS
Housing: 316 SS
<b>Connections</b>
Pressure: 1/4" MNPT, SAE-4, F-250C

Electrical Data
Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
Current Consumption: <math>< 5</math> mADC
Zero Offset: $\leq \pm 0.25\%$ of FS
Span Tolerance: $\leq \pm 1.0\%$ of FS
Output Load: >10K $\Omega$
Range Cal Signal: Internal Resistor 100%

<sup>4</sup> Accuracy includes non-linearity, hysteresis and non-repeatability

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