



SPECTRE CORP



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

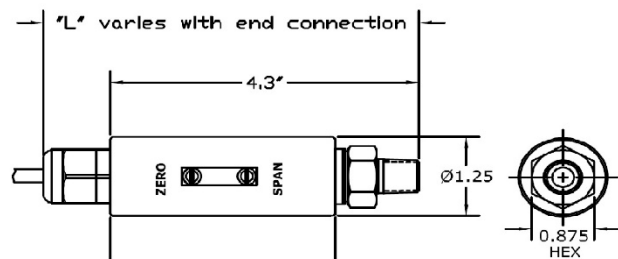
Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds) for pressures greater than 1000 psi

RFI/EMI Protection on every unit

Unparalleled long-term stability

External Zero & Span Controls available

REFERENCE DIMENSIONS:





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Ordering Guide: 3000-B-(0-5000PSI)-2-D-1-EC3X

A	(0-5000)	2	D	5	EC1
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	25 = 0.25%	EC1 = 36" PIGTAIL ³
B = SAE-4 MALE	BAR	2 = GAUGE	E = 0-5 VDC	1 = 0.1% BFSL	EC2 = LARGE DIN 43650, FORM A
C = OTHER	kPA	3 = VACUUM	F = 0-10 VDC		EC3 = MINI DIN 4365, FORM C
D = 1/8" MNPT	INCHES WC	4 = SEALED	M = mV/V		EC3X = HIRSCHMANN G4W1F ⁴
E = F-250C	TORR	5 = COMPOUND			ECT = TURCK M12
		6 = OTHER			ECX = OTHER

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

² CUSTOM PINOUTS/WIRING AVAILABLE

³ 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: $< \pm 0.25\%$ BFSL to 0.04% BFSL ⁵
Stability: (2 year): $< \pm 0.04\%$ FSO, Typical
Overpressure Protection: 5X Rated Pressure
Burst Pressure: 5X or 20000 PSI (lesser)
Pressure Cycles: > 50 Million
Temperature Range: -40°C to 212°F
Response: ≤ 5 ms to 90%

Physical Data
Sensor
Wetted Material: 316 SS greater than 1000 psi
Housing: 316 SS
Connections
Pressure: 1/4" MNPT, SAE-4, F-250C

Environmental Data
Temperature
Operating: -40°F to 212°F
Storage: -50°C to 125°C
Thermal Limits
Compensated Range: 0°C to 85°C
Thermal Effect Zero: $\leq \pm 1.5\%$ FS
Thermal Effect Span: $\leq \pm 1.5\%$ FS

Electrical Data
Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
Current Consumption: < 5 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%

⁵ Accuracy includes non-linearity, hysteresis and non-repeatability