

## Model 1000HP Automotive-Aerospace Pressure Transducer

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| <ul style="list-style-type: none"> <li>○ Highest performance transducer over temperature. Zero thermal error/drift</li> <li>○ Units are individually calibrated from -40°C to 85°C for pressures ranging from 0-10" WC to 40,000 PSI</li> <li>○ 0.04% &amp; 0.02% BFSL (STANDARD) – Contact Factory for other options</li> <li>○ 16 Point Calibration with Certificate (STANDARD)</li> </ul> | <ul style="list-style-type: none"> <li>○ Unparalleled thermal stability from -40°C to 100°C</li> <li>○ Transducer maintains stated accuracy throughout entire temperature compensated range</li> <li>○ Duplicate any customer process and electrical connector for transparent replacement</li> <li>○ Push-Button Function Optional</li> </ul> |
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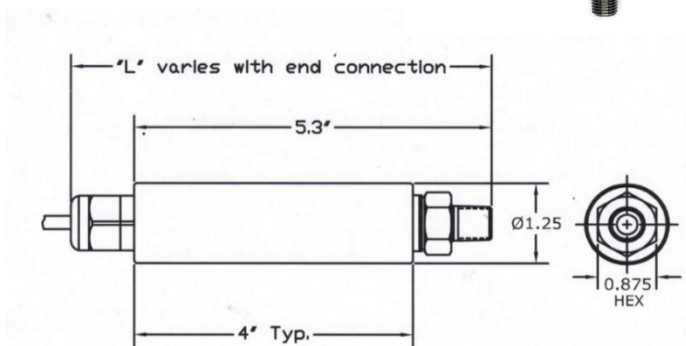
*“Spectre’s 1000HP Automotive-Aerospace Pressure Transducer is the World’s Top Performing Transmitter for Higher Accuracy Applications...”*



### FEATURES:

- Proprietary Fused Bond Sensor
- Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)
- RFI/EMI Protection
- Digital Correction for non-linearity and inaccuracies within the sensing element
- Output Options: 4-20 mA, 0-5 V, 0-10 V (custom on request)
- Suitable for high shock and vibration applications

### REFERENCE DIMENSIONS:



Spectre Corp  
7912 Root Road  
Suite C/D  
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## Model 1000HP Automotive-Aerospace Pressure Transducer

Ordering Guide: 1000HP-A-(0-150PSI)-2-D-04-EC2-PB

A	(0-150)	2	D	04	EC2
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	04 = 0.04%	EC1 = 36" PIGTAIL <sup>3</sup>
B = SAE-4 MALE	BAR	2 = GAUGE	E = 0-5 VDC	02 = 0.02%	EC2 = LARGE DIN 43650, FORM A
C = OTHER	kPA	3 = VACUUM	F = 0-10 VDC		EC3 = MINI DIN 43650, FORM C
E = F-250 C	INCHES WC	4 = SEALED	M = mV/V		EC4 = BENDIX PTIH-10-6P
	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, PLEASE SPECIFY UPON ORDER PLACEMENT

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

PB OPTIONS
PB = PUSH BUTTON RE-ZERO
NO = NONE
OPX = OTHER (SPECIFY)

TYPICAL APPLICATIONS		
Engine Test Stands	Diesel-Internal Combustion	Laboratory
Leak Detection	Emission Testing	Bake Testing
Turbine-Rocket/Jet Engine Testing	Production Test Stand	Military
Transmission Testing	Off-road Vehicles	Tank Level

Performance @ 25 °C
Accuracy: <math>\pm 0.05\%</math> BFSL to 0.02% BFSL
Stability: (2 year): <math>\pm 0.10\%</math> FSO, Typical
Overpressure Protection: 2X Rated Pressure
Burst Pressure: 5X Minimum
Pressure Cycles: > 50 Million
Temperature Range: -40 °C to 100°C
Response: $\leq 2$ 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: -40°C to 85°C
Thermal Effect Zero: Negligible <sup>4</sup>
Thermal Effect Span: Negligible <sup>4</sup>

Electrical Data
Excitation: 13-36 VDC
Current Consumption: < 5 mA
Zero Offset: $\leq \pm 0.1\%$ of FS
Span Tolerance: $\leq \pm 0.1\%$ of FS
Output Load: > 10K $\Omega$

Physical Data
<b>Sensor</b>
Wetted Material: 316 SS
Housing: 316 SS
<b>Connections</b>
Pressure: 1/4" MNPT, SAE-4, F-250 C (Others on request)
Electrical: Cable, DIN, Bendix, M12 (Others on request)

<sup>4</sup> Thermal changes will not affect overall accuracy

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