

Model 9000 Zero-Drift Precision Pressure Transducer

- Highest performance transducer over temperature. Zero thermal error/drift
- Units are individually calibrated from -40°C to 85°C for pressures ranging from 0-5" WC to 40,000 PSI
- 0.05% & 0.02% BFSL (STANDARD) – Contact Factory for other options
- 16 Point Calibration with Certificate (STANDARD)
- Unparalleled thermal stability from -40°C to 100°C
- Transducer maintains stated accuracy throughout entire temperature compensated range
- Duplicate any customer process and electrical connector for transparent replacement

Spectre's ZERO Drift High Performance Transducer is the world's only pressure transmitter that maintains performance over temperature by eliminating the largest sources of error:

Zero & Thermal Drift



FEATURES:

Proprietary Fused Bond Sensor

Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)

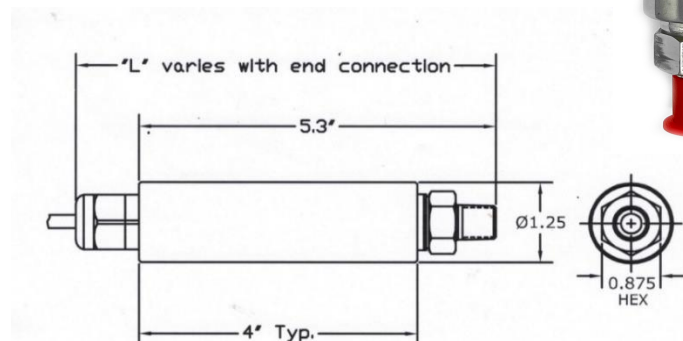
RFI/EMI Protection

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
North Ridgeville, Ohio 44039



www.SpectreCorp.com
Phone: (440) 250-0616
Fax: (440) 353-0269
E-Mail: info@spectresensors.com



Model 9000 Zero-Drift Precision Pressure Transducer

Ordering Guide: 9000-A-(0-150PSI)-2-D-05-EC2-PB

A	(0-150)	2	D	05	EC2
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	05 = 0.05%	EC1 = 36" PIGTAIL ³
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

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

² CUSTOM PINOUTS/WIRING AVAILABLE, PLEASE SPECIFY UPON ORDER PLACEMENT

³ 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: $\pm 0.05\%$ BFSL to 0.02% BFSL
Stability: (2 year): $\pm 0.10\%$ FSO, Typical
Overpressure Protection: 2X Rated Pressure
Burst Pressure: 5X Minimum
Pressure Cycles: > 50 Million
Temperature Range: -40 °C to 100°C
Response: ≤ 2 ms to 90%

Environmental Data
Temperature
Operating: -40°C to 85°C
Storage: -50°C to 125°C
Thermal Limits
Compensated Range: -40°C to 85°C
Thermal Effect Zero: Negligible ⁴
Thermal Effect Span: Negligible ⁴

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 Ω

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

⁴ Thermal changes will not affect overall accuracy

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