



**Spectre Corp**

## Model D950 Precision Differential Series 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 PSID to 0-1000 PSID
- 0.05% & 0.02% BFSI (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:

Wet/Wet Differential Pressure Measurements

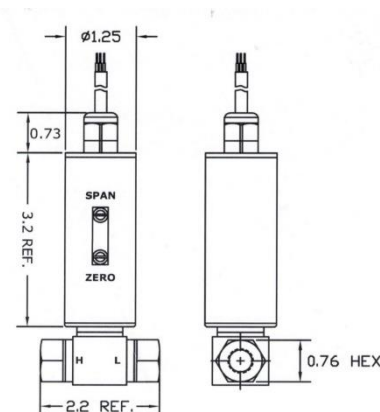
Digital Correction for non-linearity and inaccuracies within the sensing element

Suitable for high shock and vibration applications

Temperature Outputs: Type J or K TC, RTD

Pressure Options: 4-20 mA, 0-5 VDC, 0-10 VDC

### REFERENCE DIMENSIONS:



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## Model D950 Precision Differential Pressure Transducer

Ordering Guide: D950-A-(0-50PSID)-D-0- 05-EC2-PB

A	(0-50PSID)	D	0	05	EC2
PRESSURE PORT	RANGE <sup>1</sup>	PRESSURE OUTPUT	TEMPERATURE OUTPUT	ACCURACY (BFSL)	CONNECTOR <sup>2</sup>
A = 1/4" MNPT	PSI	D = 4-20 mA	0 = NONE	05 = 0.05%	EC1 = 36" PIGTAIL <sup>3</sup>
B = SAE-4 MALE	BAR	E = 0-5 VDC	1 = 4-20 mA	03 = 0.03%	EC2 = LARGE DIN 43650, FORM A
C = OTHER	kPA	F = 0-10 VDC	2 = 0-5 VDC		EC3 = MINI DIN 43650, FORM C
	INCHES WC	M = mV/V	3 = TC		EC4 = BENDIX PTIH-10-6P
	TORR		4 = RTD		ECT = TURCK M12
					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: < ± 0.05% BFSL to 0.02% BFSL
Stability: (2 year): <± 0.10% FSO, Typical
Overpressure Protection: 2X Rated Pressure
Burst Pressure: 2.5X Minimum
Pressure Cycles: > 50 Million
Temperature Range: -40 °C to 100°C
Response: ≤ 2 ms to 90%

Electrical Data
Excitation: 13-36 VDC
Current Consumption: < 5 mA
Zero Offset: ≤±0.1% of FS
Span Tolerance: ≤±0.1% of FS
Output Load: > 10K Ω

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>

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