



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

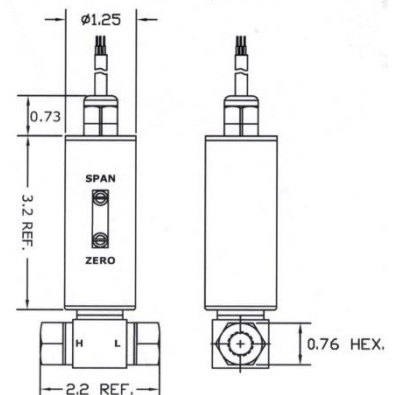
Digital Correction for non-linearity and inaccuracies within the sensing element

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:



MODEL D950

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Azienda con sistema di gestione
certificato Nr. 5010011753
secondo la norma UNI EN ISO 9001



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 ¹	PRESSURE OUTPUT	TEMPERATURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	D = 4-20 mA	0 = NONE	05 = 0.05%	EC1 = 36" PIGTAIL ³
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

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: < ± 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
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

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

⁴ Thermal changes will not affect overall accuracy