



**Spectre Corp**

## **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% 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:**

Proprietary Fused Bond Sensor

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

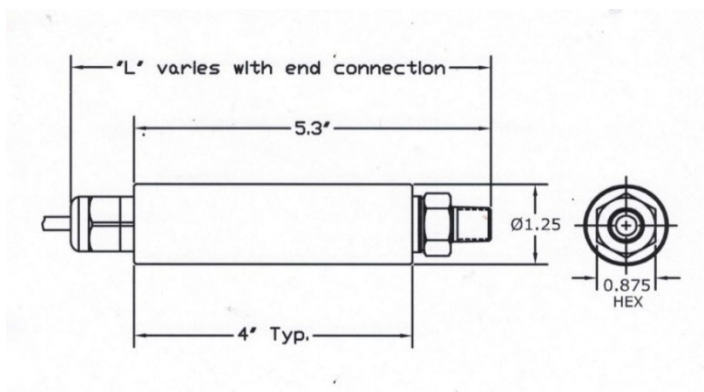
RFI/EMI Protection

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:**



MODEL 9000 REV\_C

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



## 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 <sup>1</sup> | TYPE         | PRESSURE OUTPUT | ACCURACY (BFSL) | CONNECTOR <sup>2</sup>         |
| A = 1/4" MNPT  | PSI                | 1 = ABSOLUTE | D = 4-20 mA     | 05 = 0.05%      | 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: < ± 0.05% BFSL to 0.02% BFSL     |
| Stability: (2 year): <± 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%                    |

| 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 <sup>4</sup> |
| Thermal Effect Span: Negligible <sup>4</sup> |

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

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