



Model EX46HP Explosion Proof 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

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

FEATURES:

<u>CERTIFICATIONS</u>	<u>STANDARDS</u>
Class I, Div. 1, Groups B, C, D	UL Standard 1203
Class II, Div. 2, Groups E, F, G	CSA Standard C22.2 NO. 30
Class III	FM Standard 3615
Type 4X; 7-B, C, D; 9-E, F, G	NEMA Compliance





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Ordering Guide: EX46HP-A-(0-100PSI)-4-D-05-ECEXM-PB

A	(0-150)	2	D	05	ECEX	PB
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR	OPTIONS
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	05 = 0.05%	EC1 = 36" PIGTAIL	PB = PUSH BUTTON ZERO NO = NONE
B = SAE-4 MALE	BAR	2 = GAUGE	E = 0-5 VDC	02 = 0.02%	ECEXF = 1/2" FNPT WITH TERMINAL STRIP	
C = OTHER	kPA	3 = VACUUM	F = 0-10 VDC		ECEXM = 1/2" MNPT WITH TERMINAL STRIP	OPX = OTHER (SPECIFY)
E = F-250 C	INCHES WC	4 = SEALED	M = mV/V			
	TORR	5 = COMPOUND				
		6 = OTHER				

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

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%

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

Environmental Data

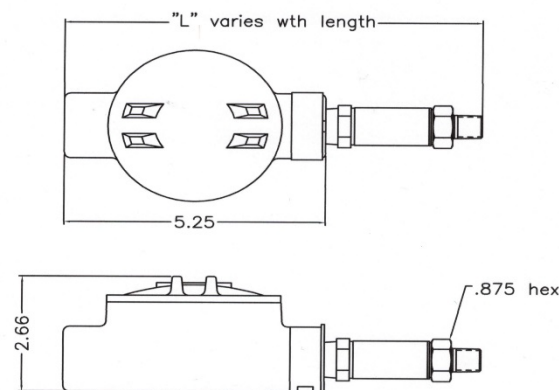
Temperature

Operating: -40 °C to 85 °C
Storage: -50 °C to 125 °C

Thermal Limits

Compensated Range: -40 °C to 85 °C
Thermal Effect Zero: Negligible²
Thermal Effect Span: Negligible²

REFERENCE DIMENSIONS:



² THERMAL CHANGES WILL NOT AFFECT OVERALL ACCURACY