



Spectre Corp

Model 500 Low Profile Pressure Transducer

- Standard Pressure Outputs: 4-20 mA, (1-5 VDC, mV/V Optional)
- 0.25% BFSL (Standard)
- Standard ranges from 0-1 psi to 0-10000 psi
- 1/4" NPT, SAE-4 process connections standard

FEATURES:

Proprietary Fused Bond Sensor

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

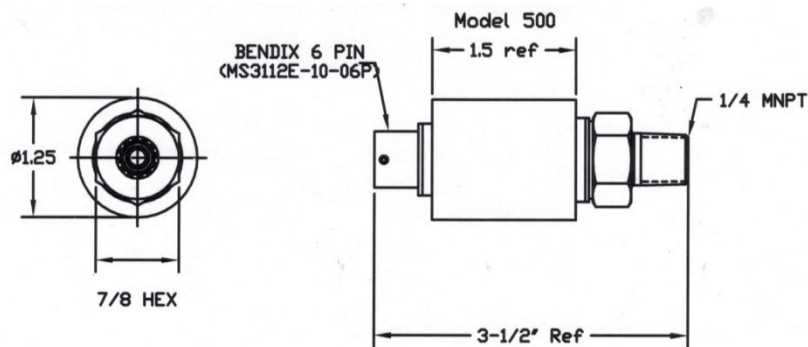
RFI/EMI Protection on every unit

Unparalleled long-term stability

Operating temperatures up to 125°C



REFERENCE DIMENSIONS:



OVERALL LENGTH VARIES WITH PROCESS AND ELECTRICAL CONNECTION

MODEL 500 REV J

02/20/23



Model 500 Low Pressure Transducer

Ordering Guide: 500-A-(0-300PSI)-2-D-25-EC4

D	(0-300PSI)	2	D	25	EC4
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	2 = GAUGE	D = 4-20 mA	25 = 0.25%	EC1 = 36" PIGTAIL ³
B = SAE-4 MALE	BAR	4 = SEALED	G = 1-5 VDC		EC2 = LARGE DIN 43650, FORM A
C = OTHER	KPA		M = mV/V		EC3 = MINI DIN 4365, FORM C
	INCHES WC				EC4 = BENDIX PTIH-10-6P
	TORR				ECT = TURCK M12
					ECX = OTHER

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

² CUSTOM PINOUTS/WIRING AVAILABLE

³ PVC STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST

OP5
OPTIONS
OP1 = NIST CALIBRATION WITH CERTIFICATE
OPX = OTHER (SPECIFY)

Performance @ 25 °C
Accuracy: < ± 0.5% BFSL to 0.2% BFSL ⁴
Stability: (2 year): <± 0.20% FSO, Typical
Overpressure Protection: 200% FSO
Burst Pressure: 300% FSO
Pressure Cycles: > 50 Million
Temperature Range: -20°C to +85°C
Response: ≤ 5 ms to 90%

Physical Data
Sensor
Wetted Material: 316 SS
Housing: 304 SS
Connections
Pressure: 1/4" MNPT, SAE-4

⁴ Accuracy includes non-linearity, hysteresis and non-repeatability

TYPICAL APPLICATIONS	
Engine Test Stand	Test Stands
Leak Detection	Rocket/Jet Engine Testing
Diesel-Internal Combustion	Emission Testing
Bake Testing	Off-road Vehicles
Laboratory/Research	Military

Environmental Data
Temperature
Operating: -40°C to 125°C
Storage: -40°C to 125°C
Thermal Limits
Compensated Range: -10°C to 70°C Typical
Thermal Effect Zero: ≤ ±1.5% FS
Thermal Effect Span: ≤ ±1.5% FS

Electrical Data
Excitation: 24 VDC, 12 VDC, 5VDC
Current Consumption: < 5 mADC
Zero Offset: ≤± 0.25% of FS
Span Tolerance: ≤±1.0% of FS
Output Load: >10K Ω