

PTT 9900 is a high precision pressure transducer offering accuracies of 0.05% full scale with a total error band from -40 C to 85C. This sensor is ideal for application requiring very high precision and reliability. Applications include medical, industrial and aerospace.



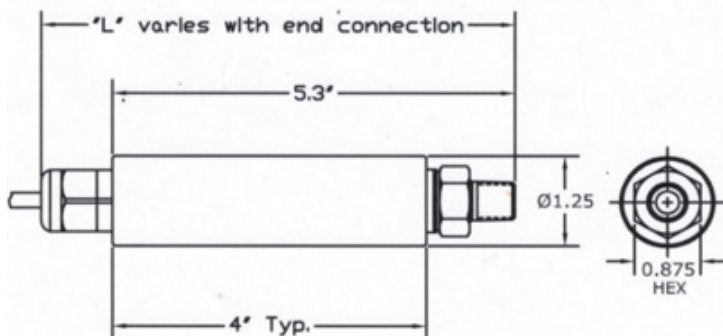
FEATURES

- Highest performance transducer over temperature. Zero thermal error/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

TECHNICAL DATA

- 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% BFSL (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

DIMENSIONS



ORDERING GUIDE

A	(0-150)	2	D	5	EC2
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20mA	5 = 0.05%	EC1 = 36" PIGTAIL ³
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 4365, FORM C
E = F-250C	INCHES WC	4 = SEALED			EC4 = BENDIX PTIH-10-6P
	TORR	5 = COMPOUND			ECT = TRUCK M12
		6 = OTHER			ECX = OTHER

PB
Options
PB = Push button re-zero
NO = None
OPX = OTHER (SPECIFY)

TYPICAL APPLICATIONS		
Engine Test Stand	Diesel-Internal Combustion	Laboratory
Leak Detection	Emission Testing	Brake Testing
Turbine-Rocket/Jet Engine Testing	Production Test Stand	Military
Transmission Testing	Off-road Vehicles	Tank Level

PERFORMANCE @ 25° C
Accuracy: $\pm 0.5\%$ BFSL to 0.1% BFSL4
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%

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, F-250C (Others on request)
Electrical: Cable, DIN, Bendix, M12 (Others on request)

ELECTRICAL DATA
Excitation: 13-36 VDC
Current Consumption: <math>< 5</math> mA
Zero Offset: $\pm 0.1\%$ of FS
Span Tolerance: $\pm 1.0\%$ of FS
Output Load: >10K Ω

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

⁴ THERMAL CHANGES WILL NOT AFFECT OVERALL ACCURACY