



Model 8000 Precision Submersible 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 0-10" WC to 500 PSI
- 0.05% & 0.03% 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
- Digital temperature correction at operating conditions

Spectre's ZERO Drift High Performance Submersible 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

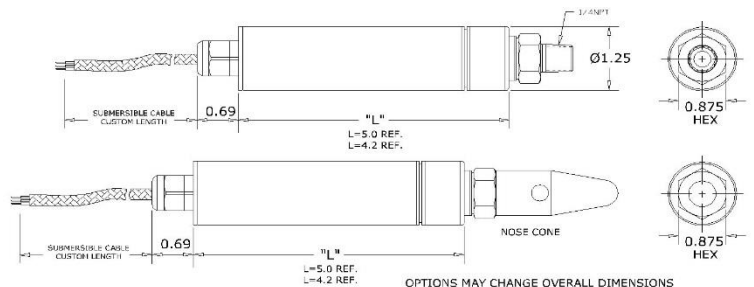
Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)

RFI/EMI Protection

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

Multiple Temperature and Pressure Output Options (Custom on Request)

REFERENCE DIMENSIONS:



Spectre Corp
7912 Root Road
Suite C/D
North Ridgeville, Ohio 44039



www.SpectreCorp.com
Phone: (440) 250-0616
Fax: (440) 353-0269
E-Mail: info@spectresensors.com



Model 8000 Precision Submersible Series Transducer

Ordering Guide: 8000-A-(0-15PSI)-2-D-05-SCV

A	(0-15PSI)	2	D	05	SCV
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	05 = 0.05%	SCV = 1/2" MNPT WITH VENTED CABLE
B = NOSE CONE	BAR	2 = GAUGE	E = 0-5 VDC	03 = 0.03%	SCN = 1/2" MNPT WITH NON-VENTED CABLE
C = OTHER	kPA	4 = SEALED	F = 0-10 VDC		ECX = OTHER
	INCHES WC	6 = OTHER	M = mV/V		
	TORR				

¹ OTHER RANGES 1 AVAILABLE, CONSULT FACTORY

² HYTREL JACKETED CABLE STANDARD, CONSULT FACTORY FOR OTHER OPTIONS

TYPICAL APPLICATIONS	
Ground Water Monitoring	Wet-Well Monitoring
Ocean Research	Level Control
Soil Remediation	Surface Water Monitoring

Performance @ 25 °C
Accuracy: $\pm 0.05\%$ BFSL to 0.03% 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%

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 ³
Thermal Effect Span: Negligible ³

Electrical Data
Excitation: 13-36 VDC
Current Consumption: <math>< 5</math> 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 (Others on request)
Electrical: 1/2" MNPT with vented or non-vented Hytrel cable

³ THERMAL CHANGES WILL NOT AFFECT OVERALL ACCURACY

Spectre Corp
 7912 Root Road
 Suite C/D
 North Ridgeville, Ohio 44039



www.SpectreCorp.com
 Phone: (440) 250-0616
 Fax: (440) 353-0269
 E-Mail: info@spectresensors.com