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)

Spectre’s ZERO Drift High Performance Submersible Transducer is the world’s only pressure transmitter that maintains performance over temperature by eliminating the largest source 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:
Model 8000 Precision Submersible Series Transducer

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

<table>
<thead>
<tr>
<th>A</th>
<th>(0-15PSI)</th>
<th>D</th>
<th>05</th>
<th>SCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE PORT</td>
<td>RANGE 1</td>
<td>TYPE 2</td>
<td>PRESSURE OUTPUT</td>
<td>ACCURACY (BFSL)</td>
</tr>
<tr>
<td>A = ¼&quot; MNPT</td>
<td>PSI 1</td>
<td>= ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>05 = 0.05%</td>
</tr>
<tr>
<td>B = NOSE CONE</td>
<td>BAR 2</td>
<td>= GAUGE</td>
<td>E = 0-5 VDC</td>
<td>03 = 0.03%</td>
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<tr>
<td>C = OTHER</td>
<td>kPA 4</td>
<td>= SEALED</td>
<td>F = 0-10 VDC</td>
<td></td>
</tr>
<tr>
<td>INCHES WC</td>
<td>6 = OTHER</td>
<td>M = mV/V</td>
<td></td>
<td></td>
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<tr>
<td>TORR</td>
<td></td>
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</tbody>
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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: < ±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%

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: < 5 mA
- Zero Offset: ≤±0.1% of FS
- Span Tolerance: ≤±0.1% of FS
- Output Load: > 10K Ω

Physical Data
- Sensor
  - Wetted Material: 316 SS
  - Housing: 316 SS
- Connections
  - Pressure: ¼" MNPT (Others on request)
  - Electrical: ½" MNPT with vented or non-vented Hytrel cable

3 THERMAL CHANGES WILL NOT AFFECT OVERALL ACCURACY