Model 861TC Thin-Profile Titanium Submersible Transducer

- Outputs: 4-20 mA DC
- 0.25% & 0.1% BFSL
- ¼” NPT and Nose Cone process connections standard – contact factory for other options
- Standard ranges from 0-10” WC to 0-300 psi
- Narrow body profile ideal for wet-well and down hole service
- Titanium housing and ceramic diaphragm with PTFE/FEP jacketed cable/vent tube

FEATURES:

- PTFE/FEP Jacketed Cable
- Corrosion Resistant – Titanium housing
- RFI/EMI Protection on every unit
- Rugged Design
- Compatible with Wide Variety of Liquids
- ½” NPT Conduit Connection Standard

REFERENCE DIMENSIONS:
Model 861TC Thin-Profile Titanium Submersible Transducer

Ordering guide – 861TC-B-(0-35'WC)-2-D-1-FEP40

<table>
<thead>
<tr>
<th>A</th>
<th>(0-15PSI)</th>
<th>2</th>
<th>D</th>
<th>5</th>
<th>SCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE PORT</td>
<td>RANGE 1</td>
<td></td>
<td></td>
<td>PRESSURE OUTPUT</td>
<td>ACCURACY (BFSL)</td>
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<tr>
<td>A = ¼” MNPT</td>
<td>PSI</td>
<td>1</td>
<td>2</td>
<td>0.25%</td>
<td>FEP = FEP CABLE</td>
</tr>
<tr>
<td>B = NOSE CONE</td>
<td>FEET WC</td>
<td>2</td>
<td>1</td>
<td>0.1%</td>
<td></td>
</tr>
<tr>
<td>C = OTHER</td>
<td>BAR</td>
<td>4</td>
<td>6</td>
<td>OTHER</td>
<td></td>
</tr>
</tbody>
</table>

1 OTHER RANGES AVAILABLE, CONSULT FACTORY
2 UNITS SUPPLIED WITH ½” MNPT CONDUIT CONNECTIONS AS STANDARD

TYPICAL APPLICATIONS

- Ground Water Level Measurement
- Wet Well Monitoring
- Level Controls
- Surface Water Monitoring
- Ocean Research
- Waste Water Canals

Electrical Data

- Excitation: 12-32 VDC (4-20 mA)
- Current Consumption: < 5 mADC
- Zero Offset: ≤± 0.25% of FS
- Span Tolerance: ≤±1.0% of FS
- Output Load: >10K Ω
- Reverse Polarity Protection: Yes

Physical Data

- Sensor
- Wetted Material: Ceramic
- Housing: Titanium
- Connections
- Pressure: ¼” MNPT, Bullet-Nose, Standard Nose
- Electrical: Vented FEP Cable

Environmental Data

- Temperature
  - Operating: -25°C to 80°C
  - Storage: -50°C to 125°C
- Thermal Limits
  - Compensated Range: 0°C to 60°C
  - Thermal Effect Zero: ≤±1.0% FS
  - Thermal Effect Span: ≤±1.0% FS

Performance @ 25 °C

- Accuracy: < ± 0.25% BFSL to 0.1% BFSL
- Stability: (2 year): <± 0.05% FSO, Typical
- Overpressure Protection: 1.5X Rated Pressure
- Burst Pressure: 2.5X Minimum
- Pressure Cycles: > 50 Million
- Temperature Range: 1°C to +40°C
- Temperature Accuracy: ± 1°C

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