Model 861TC Corrosion Proof Submersible Level Transmitter

- Standard Outputs: 4-20 mA DC, 0-5 VDC, 0-10VDC, 1-5VDC
- 0.5%, 0.25% and 0.1% BFSL Accuracies
- Intrinsically Safe option available
- NPT, SAE or Nose Cone process connections available

- Standard ranges from 0-10” WC to 0-500 psi
- 0.78” Narrow body profile ideal for wet-well and down hole service.
- Titanium, PTFE or PVDF housing, ceramic diaphragm with PTFE/FEP jacketed cable/vent tube

FEATURES:

- PTFE/FEP Jacketed Cable
- Corrosion Resistant – Titanium, PTFE Or PVDF housing
- RFI/EMI Protection on every unit
- Rugged Design
- Compatible with Wide Variety of Liquids
- Intrinsically Safe Design available

REFERENCE DIMENSIONS:
Model 861TC Corrosion Proof Submersible Transducer

Ordering guide – 861TC-B-(0-35'WC)-2-D-5-FEP40

<table>
<thead>
<tr>
<th>B</th>
<th>(0-35'WC)</th>
<th>2</th>
<th>D</th>
<th>5</th>
<th>SCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>¼&quot; MNPT</td>
<td>PSI</td>
<td>1 = ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>1 = 0.1%</td>
</tr>
<tr>
<td>B</td>
<td>NOSE CONE</td>
<td>FEET WC</td>
<td>2 = GAUGE</td>
<td>E = 0-5VDC</td>
<td>2 = 0.25%</td>
</tr>
<tr>
<td>C</td>
<td>OTHER BAR</td>
<td>4 = SEALED</td>
<td>F = 0-10VDC</td>
<td>5 = 0.5%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>OTHER</td>
<td></td>
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</tbody>
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1. OTHER RANGES AVAILABLE, CONSULT FACTORY  
2. UNITS SUPPLIED WITH ½" MNPT CONDUIT CONNECTIONS AS STANDARD

**Typical Applications**

- Ground Water Monitoring
- Wet Well Monitoring
- Deep Well and Borehole Measurements
- Level Measurement in Open Bodies of Water
- Surface Water Monitoring
- Sewage lift and Pumping Stations
- Ocean Research
- Waste Water Canals
- Settling Ponds and Rainwater Basins

**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, PVDF, PTFE
- **Connections**
  - Pressure: ⅛” 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

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