Model 881 Submersible Transducer

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- 0.5% BFSL (Standard), 0.2% BFSL and 0.1% BFSL available
- ½” NPT Conduit Connection Standard
- Standard ranges from 0-1 psi to 0-100 psi - contact factory for other ranges
- Flush Diaphragm Transducer with Debris Stand-off
- Lightening and Surge Protection

FEATURES:
- 3-inch Diameter Protective Cage Assembly
- Corrosion Resistant – 316 Stainless Steel Construction
- Compatible with Wide Variety of Liquids
- RFI/EMI Protection on every unit
- Rugged Design for Harsh Environments
- Wide Operating Temperatures
- Hytrel ® Jacketed Cable

REFERENCE DIMENSIONS:
# Model 881 Submersible Transducer

Ordering Guide: 881-A-(0-15PSI)-2-D-5-SCV40

<table>
<thead>
<tr>
<th>A</th>
<th>2</th>
<th>D</th>
<th>5</th>
<th>SCV40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESSURE PORT</td>
<td>RANGE 1</td>
<td>TYPE</td>
<td>PRESSURE OUTPUT</td>
<td>ACCURACY (BFSL)</td>
</tr>
<tr>
<td>DEBRIS STANDOFF</td>
<td>PSI</td>
<td>1 = ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>5 = 0.5%</td>
</tr>
<tr>
<td>IN/FT WC</td>
<td>2 = GAUGE</td>
<td>E = 0-5 VDC</td>
<td>2 = 0.2%</td>
<td>SCN = NON-VENTED CABLE ³</td>
</tr>
<tr>
<td>BAR</td>
<td>4 = SEALED</td>
<td>F = 0-10 VDC</td>
<td>1 = 0.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 = OTHER</td>
<td>M = mV/V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 OTHER RANGES AVAILABLE; CONSULT FACTORY
² UNITS SUPPLIED WITH ½” MNPT CONDUIT CONNECTION AS STANDARD
³ 40 FEET STANDARD LENGTH OF CABLE – ADDITIONAL LENGTHS AVAILABLE ON REQUEST

## Typical Applications
- Process Sludge
- Wet Wells
- Process Sumps
- Water Tanks and Reservoirs
- Environmental Sites
- Water/Wastewater Monitoring

### Electrical Data
- Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
- Current Consumption: < 5 mA DC
- 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: 316 SS
  - Housing: 316 SS
- Connections
  - Pressure: 3” Diameter Cage Assembly
  - Electrical: Vented and Non-vented Cable

### Environmental Data
- Temperature
  - Operating: -40°C to 85°C
  - Storage: -50°C to 125°C
- Thermal Limits
  - Compensated Range: 1°C to 55°C
  - Thermal Effect Zero: ≤ ±1.0% FS
  - Thermal Effect Span: ≤ ±1.0% FS

### Performance @ 25 °C
- Accuracy: < ± 0.5% BFSL to 0.1% BFSL
- Stability: (2 year): <± 0.05% FS, Typical
- Overpressure Protection: 2X 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