Model 88/88RD Submersible Transducer

- Standard Pressure Outputs: 4-20 mA/DC, 0-10 V/DC, 0-5 V/DC, mV/V
- 0.5% & 0.2% BFSL (Standard) - 0.1% BFSL includes 16 Point Calibration with Certificate
- ¼” NPT and Nose Cone process connections standard – contact factory for other options

- Standard ranges from 0-1 psi to 0-500 psi
- Low pressure/compound pressure ranges available – contact factory
- Duplicate any customer’s process and electrical connection for transparent replacement

FEATURES:

- Hytrel ® Jacketed Cable
- Corrosion Resistant – 316 Stainless Steel
- RFI/EMI Protection on every unit
- Rugged Design
- Wide Operating Temperatures
- Compatible with Wide Variety of Liquids
- Model 88RD available with reduced body diameter (1.00” OD)
- ½” NPT Conduit Connection Standard

REFERENCE DIMENSIONS:

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Model 88/88RD Submersible Transducer

Ordering Guide: 88-A-(0-15PSI)-2-D-5-SCV
88RD-A-(0-15PSI)-2-D-5-SCV

<table>
<thead>
<tr>
<th>A</th>
<th>(0-15PSI) RANGE</th>
<th>2</th>
<th>TYPE</th>
<th>4</th>
<th>D</th>
<th>SCV</th>
<th>5</th>
<th>ACCURACY (BFSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = ¼&quot; MNPT</td>
<td>PSI</td>
<td>1 = ABSOLUTE</td>
<td>D = 4-20 mA</td>
<td>5 = 0.5%</td>
<td>SCV = VENTED CABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B = NOSE CONE</td>
<td>INCHES WC</td>
<td>2 = GAUGE</td>
<td>E = 0-5 VDC</td>
<td>2 = 0.25%</td>
<td>SCN = NON-VENTED CABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C = OTHER</td>
<td>BAR</td>
<td>4 = SEALED</td>
<td>F = 0-10 VDC</td>
<td>1 = 0.1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 = OTHER</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

1 OTHER RANGES AVAILABLE, CONSULT FACTORY
2 UNITS SUPPLIED WITH ½" MNPT CONDUIT CONNECTIONS AS STANDARD
3 HYTREL STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST

TYPICAL APPLICATIONS

<table>
<thead>
<tr>
<th>Ground Water Level Measurement</th>
<th>Concrete Dams</th>
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<tr>
<td>Liquid Tanks</td>
<td>Irrigation</td>
</tr>
<tr>
<td>Environmental Sites</td>
<td>Waste Water Canals</td>
</tr>
</tbody>
</table>

Electrical Data

- Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
- 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: 316 SS
- Housing: 316 SS

Connections
- Pressure: ¼" MNPT, Bullet-Nose, Standard Nose
- 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 ºC
- Accuracy: < ± 0.5% BFSL to 0.1% BFSL
- Stability: (2 year): <± 0.05% FSO, 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