Model 885/8815 “Undrownable” Submersible Transducer

- Models 885 and 8815 can withstand moisture, condensation or liquid ingress through the vent tube with no damage to the electronics.**
- Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc
- Pressure ranges: 0-2 to 0-100 PSI
- Standard accuracy of 0.5% BFSL (optional accuracies to 0.1%)
- Built-in, lightning and surge protection
- Unparalleled long-term stability
- ½” MNPT conduit connection supplied as standard
- Hytrel jacketed cable

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Performance @ 25°C (77°F)
Accuracy: <±0.5% BFSL to 0.1% BFSL
Stability (2 year): <±0.05% FS, typical
Over pressure protection: 2X Rated Pressure
Burst Pressure: 2.5X minimum
Pressure Cycles: >50 Million
Temperature range: 1 to 40°C (33 to 104°F)
Temperature Accuracy: ±1°C (±1°F)

Environmental Data
Storage temp: -50 to +125°C (-60 to +250°F)
Compensated range: 1 to 30°C (33 to 86°F)
Temp comp Zero: <±1.0% FS
Temp comp Span: <±1.0% FS

Electrical Data
Excitation:
9-36 Vdc (4-20mA and 0-5 V output)
13-36 Vdc (0-10 V output)
(option C29: max 29 Vdc excitation)
5-10 Vdc (mV/V output)
Current consumption: <5mA
Zero offset: <±0.25% of FS
Span tolerance: <±1.0% of FS
Output load: >10K Ohm

Physical data
Sensor wetted material: 316SS
Body material: 316SS
Pressure connection: ¼” Male NPT (885)
Stainless debris stand-off (8815)
Electrical Connection: ½” MNPT conduit fitting
with vented cable (Hytrel jacket)

**Though internally accumulated liquid will not harm the transducer, a slight inaccuracy in readings may be experienced by its presence. Invasive liquid must be compatible with 316 stainless steel. Use of a desiccant filter or aneroid bellows is still strongly recommended.
Model 885/8815 “Undrownable” Submersible Transducer

Model 885 Ordering guide – Example: 885-A-(0-15 PSI)-2-D-5-SCV

<table>
<thead>
<tr>
<th>A</th>
<th>(0-15 PSI)</th>
<th>2</th>
<th>D</th>
<th>5</th>
<th>SCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Port</td>
<td>Range</td>
<td>Units</td>
<td>Output</td>
<td>1</td>
<td>Connector</td>
</tr>
<tr>
<td>A=1/4” MNPT</td>
<td>B=Nose cone</td>
<td>C=Other</td>
<td>Specify pressure range in feet (meters) water, PSI or BAR</td>
<td>1=Absolute</td>
<td>D=4-20mA</td>
</tr>
</tbody>
</table>

Model 8815 Ordering guide – Example: 8815-A-(0-15 PSI)-2-D-5-SCV

<table>
<thead>
<tr>
<th>A</th>
<th>(0-15 PSI)</th>
<th>2</th>
<th>D</th>
<th>5</th>
<th>SCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Port</td>
<td>Range</td>
<td>Units</td>
<td>Output</td>
<td>Accuracy</td>
<td>Connector</td>
</tr>
<tr>
<td>A=Debris stand-off</td>
<td>Specify pressure range in feet (meters) water, PSI or BAR</td>
<td>1=Absolute</td>
<td>2=Gauge</td>
<td>X=Other</td>
<td>D=4-20mA</td>
</tr>
</tbody>
</table>

* BFSL = Best Fit Straight Line

*** Standard cable jacket is Hytrel. Others may be available on request – contact factory.

Dimensions:
(For reference only. Actual dimensions and configuration may vary. Standard configuration includes ½” MNPT conduit connection)

Model 885

![Model 885 Diagram]

Model 8851

![Model 8851 Diagram]