Model 861 Thin-Profile Submersible Transducer

- Output: 4-20mA, two-wire
- Pressure ranges: 0-5 to 0-100 PSI
- Standard accuracy of 0.2% BFSL
- Narrow body profile perfect for wet-well and “down-hole” service
- Built-in, proprietary design, lightning and surge protection supplied as standard
- Unparalleled long-term stability

Performance @ 25°C (77°F)
Accuracy: <±0.2% BFSL (Best Full Scale Line)
Stability (1 year): <±0.1% FS, typical
Over pressure protection: 2X Rated Pressure
Burst Pressure: 2.5X minimum
Pressure Cycles: >50 Million
Temperature range: -55 to +85°C (-65 to +185°F)
Temperature Accuracy: ±1°C (±1°F)
Total Error Band: ±1.5% (includes zero, span, static accuracy and temperature)

Electrical Data
Excitation:
10-32 Vdc - 4-20mA output
Option C29: Max 29 Vdc excitation
Zero offset: <±1.0% of FS
Span tolerance: <±2.0% of FS
Current consumption: 0.12 Watt

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

Physical data
Sensor wetted material: 316SS
Body material: 316SS
Pressure connection: 9/16-18 UNF male thread
(others on application)
Electrical Connection: Vented and non-vented cable
(submersible disconnects on application)
# Model 861 Thin-Profile Submersible Transducer

## Ordering guide – Example: 861-9-(0-5PSIG)-2-D-2-SCV15

<table>
<thead>
<tr>
<th>A</th>
<th>(0-5PSIG)</th>
<th>2</th>
<th>D</th>
<th>2</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>9=9/16-18 UNF Thread</td>
<td>Specifying pressure range in: inches (mm) water, feet (meters) water, PSI or BAR</td>
<td>1=Absolute</td>
<td>D=4-20mA**</td>
<td>2=0.2% BFSL*</td>
<td>SCV=Vented Cable**</td>
</tr>
<tr>
<td>B=Nose cone</td>
<td></td>
<td>2=Gauge (vented cable)</td>
<td></td>
<td></td>
<td>SCN=Non-vented cable**</td>
</tr>
<tr>
<td>X=Other</td>
<td></td>
<td>4=Sealed</td>
<td></td>
<td></td>
<td>ECX=Other</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6=Other</td>
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</tbody>
</table>

* BFSL = Best Fit Straight Line
** Specify cable length in feet. Standard cable jacket is Hytrel. Others available on request – contact factory.

## Dimensions:

![Dimensions Diagram](image-url)

L = 5.25" (Ref)

Note: Spectre strongly recommends the use of external surge protection on all submersible transducers to protect secondary instrumentation.

## Typical Applications:
- Ground Water Monitoring
- Wet-well Monitoring
- Ocean research
- Soil remediation
- Level Control
- Surface Water Monitoring

## Available accessories:
- Aneroid bellows
- Cable hangers
- Dessicant filters
- Junction boxes
- Power supplies