

## Model 861 Thin-Profile Submersible Transducer



Actual size

- **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:  $<\pm 0.2\%$  BFSL (Best Full Scale Line)  
Stability (1 year):  $<\pm 0.1\%$  FS, typical  
Over pressure protection: 2X Rated Pressure  
Burst Pressure: 2.5X minimum  
Pressure Cycles:  $>50$  Million  
Temperature range:  $-55$  to  $+85^{\circ}\text{C}$  ( $-65$  to  $+185^{\circ}\text{F}$ )  
Temperature Accuracy:  $\pm 1^{\circ}\text{C}$  ( $\pm 1^{\circ}\text{F}$ )  
Total Error Band:  $\pm 1.5\%$  (includes zero, span, static accuracy and temperature)

### Environmental Data

Storage temp:  $-50$  to  $+125^{\circ}\text{C}$  ( $-60$  to  $+250^{\circ}\text{F}$ )  
Compensated range:  $1$  to  $30^{\circ}\text{C}$  ( $+33$  to  $+86^{\circ}\text{F}$ )  
Temp comp Zero:  $<\pm 1.0\%$  FS  
Temp comp Span:  $<\pm 1.0\%$  FS

### Electrical Data

**Excitation:**  
10-32 Vdc - 4-20mA output  
Option C29: Max 29 Vdc excitation

Zero offset:  $<\pm 1.0\%$  of FS  
Span tolerance:  $<\pm 2.0\%$  of FS  
Current consumption: 0.12 Watt

### 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)

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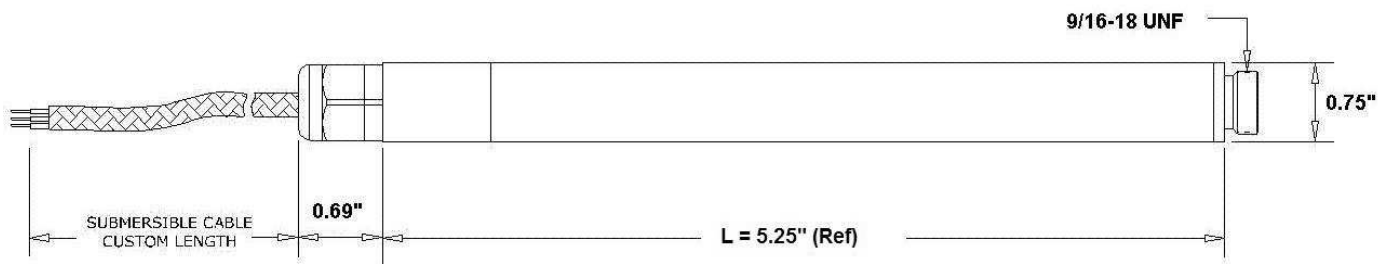
Ordering guide – Example: 861-9-(0-5PSIG)-2-D-2-SCV15

A	(0-5PSIG)	2	D	2	SCV
Pressure Port	Range	Units	Output	Accuracy	Connector
9=9/16-18 UNF Thread B=Nose cone X=Other	Specify pressure range in: inches (mm) water, feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) 4=Sealed 6=Other	D=4-20mA**	2=0.2% BFSL*	SCV=Vented Cable** SCN= Non-vented cable** ECX=Other

\* BFSL = Best Fit Straight Line

\*\* Specify cable length in feet. Standard cable jacket is Hytrel. Others available on request – contact factory.

### Dimensions:



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

