

## Model 8600 Tentacle Thin-Profile Submersible Transducer



- Transducer is customized to your specific temperature and pressure conditions
- Outputs: 4-20mA, mV/V. Optional RS232 or RS485
- Pressure ranges – 0-10" WC to 500 PSI
- Standard accuracy of 0.05% BFSL (optional 0.03%)
- 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
- Digital temperature correction at operating conditions
- Proprietary digital "AutoZero" / recalibration mode
- Field rangeable 5:1



Spectre's Series 8600 Submersible Transducers offers the first available submersible sensors that are designed, manufactured and calibrated to each application's specific operating conditions. **Each transducer's output is digitally mapped to correct for any non-linearity or inaccuracies in the sensing element.** This digital correction provides the most accurate and flexible submersible transducer in the industry.

### Performance @ 25°C (77°F)

Accuracy:  $<\pm 0.05\%$  BFSL (optional 0.03%)  
Stability (2 year):  $<\pm 0.05\%$  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:  $\pm 1^\circ\text{C}$  ( $\pm 1^\circ\text{F}$ )  
Total Error Band:  $\pm 1.5\%$  (includes zero, span, static accuracy and temperature)

### Environmental Data

Operating temp: -40 to + 85°C (-40 to +185°F)  
Storage temp: -50 to +125°C (-60 to +250°F)  
Compensated range: 1 to 30°C (+33 to +86°F)  
Temp comp Zero:  $<\pm 0.2\%$  FS  
Temp comp Span:  $<\pm 0.2\%$  FS

### Electrical Data

#### Excitation:

6-36 Vdc - 4-20mA output  
Option C29: Max 29 Vdc excitation  
5-10 Vdc - mV/V output

Optional serial comms: RS232 or RS485  
Current consumption: 0.12 Watt  
Zero offset:  $<\pm 0.2\%$  of FS  
Span tolerance:  $<\pm 0.2\%$  of FS  
Current consumption: 0.12 Watt  
Output load: >10K Ohm

### Physical data

Sensor wetted material: 316SS  
Body material: 316SS  
Optional: Inconel and/or Hastelloy C on application

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: 8600-9-(0-20”WC)-2-D-05-SCV

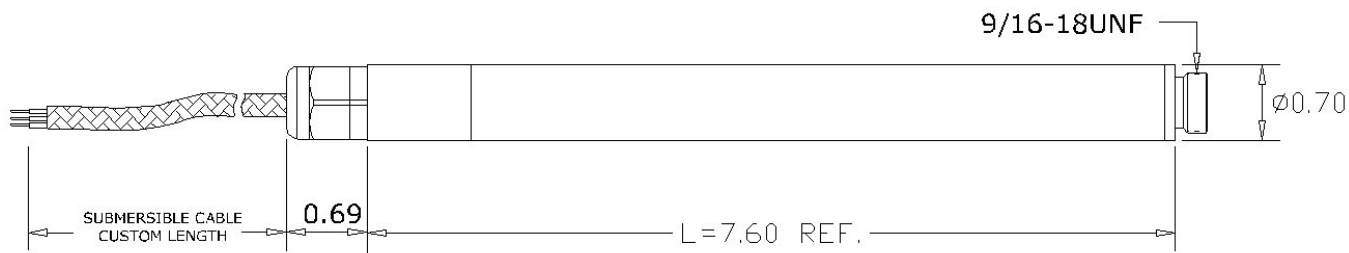
A	(0-20”WC)	2	D	05	SCV
Pressure Port	Range	Units	Output	Accuracy	Connector
9=9/16-18 UNF Thread B=Nose cone C=Other	Specify pressure range in: inches (mm) water, feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) 4=Sealed 6=Other	D=4-20mA** G=RS232** H=RS485** M=mV/V	05=0.05% BFSL* 03=0.03% BFSL*	SCV=Vented Cable** SCN= Non-vented cable** ECX=Other

\* BFSL = Best Fit Straight Line

\*\* Combination 4-20mA + Comms available – contact factory for details

\*\*\* Standard cable jacket is Hytrel. Tefzel available on request – contact factory.

### Dimensions:



### Typical Applications:

- Ground Water Monitoring
- Wet-well Monitoring
- Ocean research
- Soil remediation
- Level Control
- Surface Water Monitoring

Wiring	4-20mA, Cable
White	+ excitation
Black	- excitation/signal
Power	6-32 Vdc

### Available accessories:

- Aneroid bellows
- Cable hangers
- Dessicant filters
- Junction boxes
- Power supplies

