

## **Model 881 Submersible Transducer**



- Flush diaphragm transducer with debris avoidance stand-off
- Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc and mV/V
- Standard accuracy of 0.5% BFSL (optional accuracies to 0.1%)
- Built-in, lightning and surge protection
- Unparalleled long-term stability
- 1/2" MNPT conduit connection supplied as standard
- Hytrel jacketed cable
- Pressure ranges from 0-1 PSIG to 0-100 PSIG



### **Performance @ 25°C (77°F)**

Accuracy: <math>\pm 0.5\%</math> BFSL to 0.1% BFSL  
Stability (2 year): <math>\pm 0.05\%</math> 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:  $\pm 1^\circ\text{C}$  ( $\pm 1^\circ\text{F}$ )

### **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: <math>\pm 1.0\%</math> FS  
Temp comp Span: <math>\pm 1.0\%</math> 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: <math>< 5\text{mA}</math>  
Zero offset: <math>\pm 0.25\%</math> of FS  
Span tolerance: <math>\pm 1.0\%</math> of FS  
Output load: >10K Ohm

### **Physical data**

Sensor wetted material: 316SS  
Body material: 316SS

Pressure connection: Flush diaphragm transducer with debris stand-off

Electrical Connection: Vented and non-vented cable (submersible disconnects on application)

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Ordering guide – Example: 881-A-(0-15 PSIG)-2-D-5-SCV

A	(0-15 PSIG)	2	D	1	SCV
Pressure Port	Range	Units	Output	1	Connector
A=Debris stand-off	Specify pressure range in feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) 4=Sealed 6=Other	D=4-20mA E=0-5VDC F=0-10VDC M=mV/V	5=0.5% BFSL 2=0.2% BFSL 1=0.1% BFSL	SCV= Vented cable** SCN=Non-vented Cable** ECX=Other  (Units supplied with ½" MNPT conduit connections as standard)

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

### Dimensions:

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

