



**Spectre Corp**

## **Model 881 Submersible Transducer**

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- 0.5% BFSL (Standard), 0.2% BFSL and 0.1% BFSL available
- 1/2" NPT Conduit Connection Standard
- Standard ranges from 0-1 psi to 0-100 psi -contact factory for other ranges
- Flush Diaphragm Transducer with Debris Stand-off
- Lightning and Surge Protection

### **FEATURES:**

**3-inch Diameter Protective Cage Assembly**

**Corrosion Resistant – 316 Stainless Steel Construction**

**Compatible with Wide Variety of Liquids**

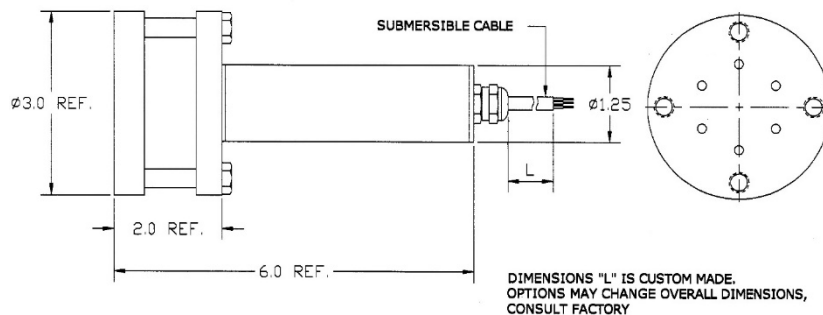
**RFI/EMI Protection on every unit**

**Rugged Design for Harsh Environments**

**Wide Operating Temperatures**

**Hytrel® Jacketed Cable**

### **REFERENCE DIMENSIONS:**



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## Model 881 Submersible Transducer

Ordering Guide: 881-A-(0-15PSI)-2-D-5-SCV40

A	(0-15PSI)	2	D	5	SCV40
PRESSURE PORT	RANGE <sup>1</sup>	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR <sup>2</sup>
DEBRIS STANDOFF	PSI	1 = ABSOLUTE	D = 4-20 mA	5 = 0.5%	SCV40 = 40' VENTED CABLE <sup>3</sup>
	IN/FT WC	2 = GAUGE	E = 0-5 VDC	2 = 0.2%	SCN = NON-VENTED CABLE <sup>3</sup>
	BAR	4 = SEALED	F = 0-10 VDC	1 = 0.1%	
		6 = OTHER	M = mV/V		

<sup>1</sup> OTHER RANGES AVAILABLE, CONSULT FACTORY

<sup>2</sup> UNITS SUPPLIED WITH 1/2" MNPT CONDUIT CONNECTION AS STANDARD

<sup>3</sup> 40 FEET STANDARD LENGTH OF CABLE – ADDITIONAL LENGTHS AVAILABLE ON REQUEST

TYPICAL APPLICATIONS	
Process Sludge	Wet Wells
Process Sumps	Water Tanks and Reservoirs
Environmental Sites	Water/Wastewater Monitoring

Electrical Data
Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
Current Consumption: < 5 mADC
Zero Offset: $\leq \pm 0.25\%$ of FS
Span Tolerance: $\leq \pm 1.0\%$ of FS
Output Load: >10K $\Omega$
Reverse Polarity Protection: Yes

Physical Data
Sensor
Wetted Material: 316 SS
Housing: 316 SS
Connections
Pressure: 3" Diameter Cage Assembly
Electrical: Vented and Non-vented Cable

Environmental Data
Temperature
Operating: -40°C to 85°C
Storage: -50°C to 125°C
Thermal Limits
Compensated Range: 1°C to 55°C
Thermal Effect Zero: $\leq \pm 1.0\%$ FS
Thermal Effect Span: $\leq \pm 1.0\%$ FS

Performance @ 25 °C
Accuracy: < $\pm 0.5\%$ BFSL to 0.1% BFSL <sup>4</sup>
Stability: (2 year): < $\pm 0.05\%$ FSO, Typical
Overpressure Protection: 2X Rated Pressure
Burst Pressure: 2.5X Minimum
Pressure Cycles: > 50 Million
Temperature Range: 1°C to +40°C
Temperature Accuracy: $\pm 1^\circ\text{C}$

<sup>4</sup> Accuracy includes non-linearity, hysteresis and non-repeatability

