



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
- ½" 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

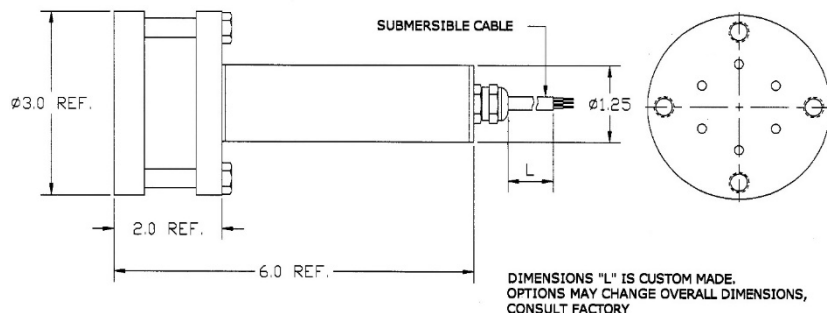
RFI/EMI Protection on every unit

Rugged Design for Harsh Environments

Wide Operating Temperatures

Hytrel® Jacketed Cable

REFERENCE DIMENSIONS:



MODEL 881 REVISION D

05/08/17



Model 881 Submersible Transducer

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

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

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

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

³ 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 mA DC
Zero Offset: $\leq \pm 0.25\%$ of FS
Span Tolerance: $\leq \pm 1.0\%$ of FS
Output Load: >10K Ω
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 ⁴
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: $\pm 1^\circ\text{C}$

⁴ Accuracy includes non-linearity, hysteresis and non-repeatability