



## Model 88/88RD Submersible Transducer

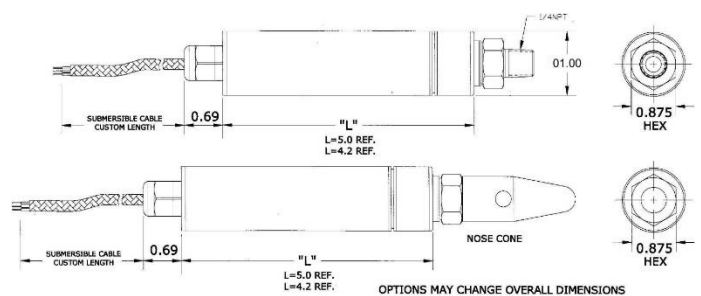
- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- 0.5% & 0.2% BFSL (Standard) - 0.1% BFSL includes 16 Point Calibration with Certificate
- 1/4" NPT and Nose Cone process connections standard – contact factory for other options
- Standard ranges from 0-1 psi to 0-500 psi
- Low pressure/compound pressure ranges available – contact factory
- Duplicate any customer's process and electrical connection for transparent replacement



### FEATURES:

- Hytrel® Jacketed Cable**
- Corrosion Resistant – 316 Stainless Steel**
- RFI/EMI Protection on every unit**
- Rugged Design**
- Wide Operating Temperatures**
- Compatible with Wide Variety of Liquids**
- Model 88RD available with reduced body diameter (1.00" OD)**
- 1/2" NPT Conduit Connection Standard**

### REFERENCE DIMENSIONS:



Spectre Corp  
7912 Root Road  
Suite C/D  
North Ridgeville, Ohio 44039



[www.SpectreCorp.com](http://www.SpectreCorp.com)  
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## Model 88/88RD Submersible Transducer

Ordering Guide: 88-A-(0-15PSI)-2-D-5-SCV  
88RD-A-(0-15PSI)-2-D-5-SCV

A	(0-15PSI)	2	D	5	SCV
PRESSURE PORT	RANGE <sup>1</sup>	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR <sup>2</sup>
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	5 = 0.5%	SCV = VENTED CABLE <sup>3</sup>
B = NOSE CONE	INCHES WC	2 = GAUGE	E = 0-5 VDC	2 = 0.25%	SCN = NON-VENTED CABLE <sup>3</sup>
C = OTHER	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 CONNECTIONS AS STANDARD

<sup>3</sup> HYTREL STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST

### TYPICAL APPLICATIONS

Ground Water Level Measurement	Concrete Dams
Liquid Tanks	Irrigation
Environmental Sites	Waste Water Canals

### 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: 1/4" MNPT, Bullet-Nose, Standard Nose

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

