



Spectre Corp

Model 88 Flush Diaphragm Submersible Transducer

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- 0.25% BFSL (Standard) - 0.1% BFSL includes 16 Point Calibration with Certificate
- 1/2" MNPT Conduit Connection Standard
- Standard ranges from 0-1 psi to 0-100 psi
- Low pressure/compound pressure ranges available – contact factory
- Solid Stainless Steel G 1/2" Flush Diaphragm ¹



FEATURES:

Hytrel ® Jacketed Cable with Integral Vent Tube

Corrosion Resistant

RFI/EMI Protection on every unit

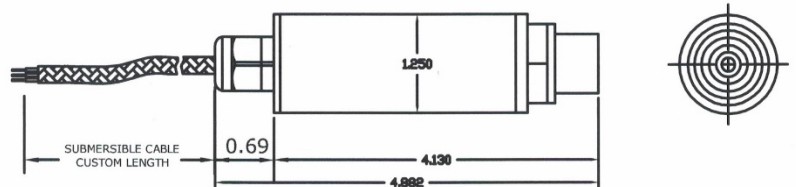
Rugged Design

Wide Operating Temperatures

Flush Design Eliminates Clean-Up

IP68 Protection Standard

REFERENCE DIMENSIONS:



¹ Other connections available, contact factory

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Model 88 Flush Diaphragm Submersible Transducer

Ordering Guide: 88FD-(0-15)-2-D-25-SCV40

A	(0-15PSI)	2	D	5	SCV
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
Flush Diaphragm	PSI	1 = ABSOLUTE	D = 4-20 mA	25 = 0.25%	SCV40 = VENTED CABLE ³
	INCHES WC	2 = GAUGE	E = 0-5 VDC	1 = 0.1%	SCN = NON-VENTED CABLE ³
	BAR	4 = SEALED	F = 0-10 VDC		
		6 = OTHER	M = mV/V		

¹ OTHER RANGES AVAILABLE, CONSULT FACTORY

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

³ STANDARD CABLE LENGTH -ADDITIONAL LENGTH AVAILABLE ON REQUEST

TYPICAL APPLICATIONS

Lift Station Level Monitoring	Tanks and Reservoir Levels
Process Sumps	Sludge Levels

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 Ω
Reverse Polarity Protection: Yes

Physical Data

Sensor

Wetted Material: 316 SS

Housing: 316 SS

Connections

Pressure: G 1/2" Flush Diaphragm

Electrical: Vented and Non-vented Cable

Environmental Data

Temperature

Operating: 1°C to 40°C

Storage: -50°C to 125°C

Thermal Limits

Compensated Range: 1°C to 38°C

Thermal Effect Zero: $\leq \pm 1.0\%$ FS

Thermal Effect Span: $\leq \pm 1.0\%$ FS

Performance @ 25 °C

Accuracy: $< \pm 0.25\%$ BFSL to 0.1% BFSL⁴

Stability: (2 year): $< \pm 0.05\%$ FSO, Typical

Overpressure Protection: 2X Rated Pressure

Burst Pressure: 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

