



Model 882BC Submersible Transducer

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC, mV/V
- 0.2% BFSL (Standard), 0.1% BFSL Accuracy Optional
- 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:

3-1/2 inch Diameter Protective Cage Assembly

Corrosion Resistant – 316 Stainless Steel Construction

Compatible with Wide Variety of Liquids

RFI/EMI Protection on every unit

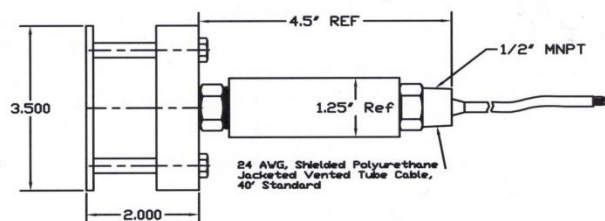
Rugged Design for Harsh Environments

Wide Operating Temperatures

Hytrel® Jacketed Cable



REFERENCE DIMENSIONS:



OPTIONS MAY CHANGE OVERALL DIMENSIONS, CONSULT FACTORY

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Model 882BC Submersible Transducer

Ordering Guide: 882BC-A-(0-15PSI)-2-D-25-SCV

A	(0-15PSI)	2	D	25	SCV
PRESSURE PORT	RANGE ¹	TYPE	PRESSURE OUTPUT	ACCURACY (BFSL)	CONNECTOR ²
DEBRIS STANDOFF	PSI	1 = ABSOLUTE	D = 4-20 mA	25 = 0.25%	SCV = VENTED CABLE ³
	IN/FT 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 CONNECTION AS STANDARD

³ HYTREL JACKET CABLE - OTHERS AVAILABLE, CONSULT FACTORY

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: 3-1/2" 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% BFSL⁴

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

