

## Model P88/88RD Submersible Transducer



- **Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc and mV/V**
- **Pressure ranges: 0-1 to 0-500 PSI**
- **Standard accuracy of 0.5% BFSL (optional accuracies to 0.1%)**
- **Built-in, lightning and surge protection**
- **Unparalleled long-term stability**
- **½" MNPT conduit connection supplied as standard**
- **Hytel jacketed cable**
- **Model 88RD available with reduced body diameter (0.875")**



### Performance @ 25°C (77°F)

Accuracy:  $\pm 0.5\%$  BFSL to  $0.1\%$  BFSL  
Stability (2 year):  $\pm 0.05\%$  FS, typical  
Over pressure protection: 2X Rated Pressure  
Burst Pressure: 2.5X minimum  
Pressure Cycles: >50 Million  
Temperature range: 1 to 40°C (33 to 104°F)  
Temperature Accuracy:  $\pm 1^\circ\text{C}$  ( $\pm 1^\circ\text{F}$ )

### Environmental Data

Storage temp: -50 to +125°C (-60 to +250°F)  
Compensated range: 1 to 30°C (33 to 86°F)  
Temp comp Zero:  $\pm 1.0\%$  FS  
Temp comp Span:  $\pm 1.0\%$  FS

### Electrical Data

**Excitation:**  
9-36 Vdc (4-20mA)  
13-36 Vdc (0-5 V and 0-10 V output)  
(option C29: max 29 Vdc excitation)  
5-10 Vdc (mV/V output)

Current consumption:  $< 5\text{mA}$   
Zero offset:  $\pm 0.25\%$  of FS  
Span tolerance:  $\pm 1.0\%$  of FS  
Output load:  $> 10\text{K Ohm}$

### Physical data

Sensor wetted material: 316SS  
Body material: 316SS  
(Other materials on application)

Pressure connection: ¼" Male NPT, bullet-nose  
(others on application)

Electrical Connection: Vented and non-vented cable  
(submersible disconnects on application)

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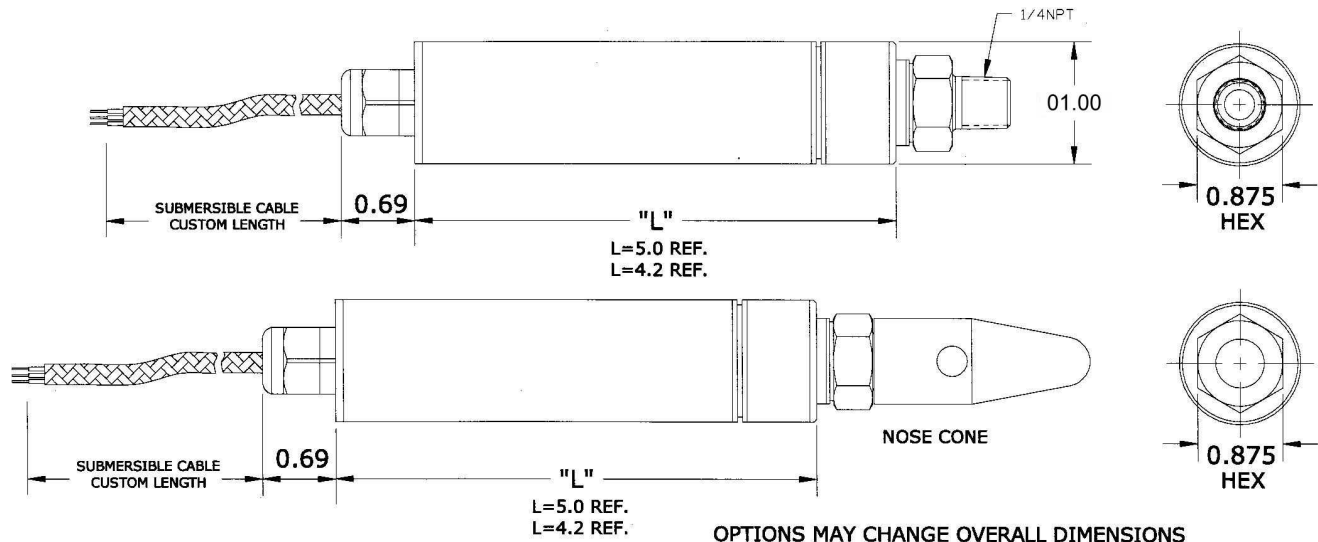
Ordering guide – Example: 88-A-(0-15 PSIG)-2-D-5-SCV  
88RD-A-(0-15PSIG-2-5-SCV

| A                                     | (0-15 PSIG)   | 2   | D   | 1   | SCV   |
|---------------------------------------|---|---|---|---|---|
| Pressure Port                         | Range   | Units   | Output                                      | 1   | Connector   |
| A=1/4" MNPT<br>B=Nose cone<br>C=Other | Specify pressure range in feet (meters) water, PSI or BAR | 1=Absolute<br>2=Gauge (vented cable)<br>4=Sealed<br>6=Other | D=4-20mA<br>E=0-5VDC<br>F=0-10VDC<br>M=mV/V | 5=0.5% BFSL<br>2=0.2% BFSL<br>1=0.1% BFSL | SCV= Vented cable**<br>SCN=Non-vented Cable**<br>ECX=Other<br><br>(Units supplied with 1/2" MNPT conduit connections as standard) |

\*\* Standard cable jacket is Hytrel. Others available on request – contact factory.

### Dimensions:

(For reference only. Actual dimensions and configuration may vary. Standard configuration includes 1/2" MNPT conduit connection)



**Note: Model 88RD has OD dimension of 0.875"**