



## Model 80A Submersible Pressure Transducer



- Flush diaphragm transducer with debris avoidance stand-off
- 4-20mA output
- Pressure ranges 0-5, 0-10 and 0-15 PSIG
- Accuracies of 1.0%, 0.5% and 0.2% available (0.1% on application)
- Long-term stability
- 316 stainless steel construction
- Designed for hazardous area installation (intrinsic safety barrier required – approvals pending)

 $\epsilon$ 

#### Performance @ 25℃ (77℉)

Accuracy: ±1.0% BFSL (optional 0.5%, 0.2% and 0.1%)

Stability: <±0.2% FS/year, typical

Over pressure protection: 2X Rated Pressure

Burst Pressure: 2.5X minimum Pressure Cycles: >50 Million

#### **Environmental Data**

Operating temp: -20 to +80°C (-40 to +176°F) Storage temp: -50 to +125°C (-60 to +250°F) Compensated range: 0 to 55°C (+32 to +130°F)

#### **Electrical Data**

Excitation: 9-29 Vdc for 4-20mA

Electrical rating: IEC Ex ia IIC T5 - Nema 6P

Loop resistance @ 24 Vdc: 500 Ohm

Zero offset: <±1.0% of FS Span tolerance: <±1.0% of FS

#### Physical data

Sensor wetted material: 316SS

Body material: 316SS Cable pull strength: 200 lb.

Pressure connection: Flush diaphragm with debris

stand-off

Electrical Connection: Molded, vented submersible

cable

(Polyethylene outer jacket)



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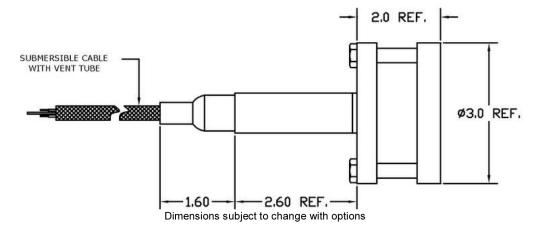
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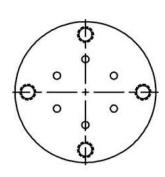
## **Ordering information:**

| Part number | Description                                                          | Output | Cable |
|-------------|----------------------------------------------------------------------|--------|-------|
| 80A054250-1 | Stainless steel construction, debris stand-off, 0-5 PSIG, 1% BFSL    | 4-20mA | 50 Ft |
| 80A054250-5 | Stainless steel construction, debris stand-off, 0-5 PSIG, 0.5% BFSL  | 4-20mA | 50 Ft |
| 80A054250-2 | Stainless steel construction, debris stand-off, 0-5 PSIG, 0.2% BFSL  | 4-20mA | 50 Ft |
| 80A104250-1 | Stainless steel construction, debris stand-off, 0-10 PSIG, 1% BFSL   | 4-20mA | 50 Ft |
| 80A104250-5 | Stainless steel construction, debris stand-off, 0-10 PSIG, 0.5% BFSL | 4-20mA | 50 Ft |
| 80A104250-2 | Stainless steel construction, debris stand-off, 0-10 PSIG, 0.2% BFSL | 4-20mA | 50 Ft |
| 80A154250-1 | Stainless steel construction, debris stand-off, 0-15 PSIG, 1% BFSL   | 4-20mA | 50 Ft |
| 80A154250-5 | Stainless steel construction, debris stand-off, 0-15 PSIG, 0.5% BFSL | 4-20mA | 50 Ft |
| 80A154250-2 | Stainless steel construction, debris stand-off, 0-15 PSIG, 0.2% BFSL | 4-20mA | 50 Ft |

Optional accuracy of 0.1% available - Consult factory for availability

### **Dimensions:**







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