

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)



Performance @ 25°C (77°F)

Accuracy: $\pm 1.0\%$ BFS (optional 0.5%, 0.2% and 0.1%)

Stability: $< \pm 0.2\%$ FS/year, typical

Over pressure protection: 2X Rated Pressure

Burst Pressure: 2.5X minimum

Pressure Cycles: > 50 Million

Environmental Data

Operating temp: -20 to $+80^\circ\text{C}$ (-40 to $+176^\circ\text{F}$)

Storage temp: -50 to $+125^\circ\text{C}$ (-60 to $+250^\circ\text{F}$)

Compensated range: 0 to 55°C ($+32$ to $+130^\circ\text{F}$)

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: $< \pm 1.0\%$ of FS

Span tolerance: $< \pm 1.0\%$ 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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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:

