



Model 8950/8951 “Undrownable” Submersible Transducer

With digitally compensated electronics for precision accuracy



- **Models 8950 and 8951 can withstand moisture, condensation or liquid ingress through the vent tube with no damage to the electronics.****
- **Customized to your specific temperature and pressure conditions**
- **Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc. Optional digital communications available.** (Consult factory)
- **Pressure ranges 0-2 PSI to 100 PSI**
- **Standard accuracy of 0.05% BFSL (optional 0.03%)**
- **Built-in, proprietary design, lightning and surge protection supplied as standard**
- **Unparalleled long-term stability**
- **Digital temperature correction at operating conditions**



Performance @ 25°C (77°F)

Accuracy: $\leq \pm 0.05\%$ Best Fit Straight Line (BFSL)
Stability (2 year): $\leq \pm 0.05\%$ FS, typical
Over pressure protection: 2X Rated Pressure
Burst Pressure: 2.5X minimum
Pressure Cycles: >50 Million
Temperature range: -55 to +85°C (-65 to +185°F)
Temperature Accuracy: $\pm 1^\circ\text{C}$ ($\pm 1^\circ\text{F}$)
Total Error Band: $\pm 1.5\%$ (includes zero, span, static accuracy and temperature)

Environmental Data

Storage temp: -50 to +125°C (-60 to +250°F)
Compensated range: 1 to 30°C (+33 to +86°F)

Electrical Data

Excitation:

6-36 Vdc - 4-20mA output
9-36 Vdc - 0-5 Vdc output
14-36 Vdc - 0-10 Vdc output
Option C29: Max 29 Vdc excitation

Current consumption: 0.12 Watt
Zero offset: $\leq \pm 0.2\%$ of FS
Span tolerance: $\leq \pm 0.2\%$ of FS
Output load: >10K Ohm

Physical data

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

Pressure connection: 1/4" Male NPT (8950)
Stainless debris stand-off (8951)
Electrical Connection: 1/2 MNPT with Hytrel vented cable

**Though internally accumulated liquid will not harm the transducer, a slight inaccuracy in readings may be experienced by its presence. Invasive liquid must be compatible with 316 stainless steel. Use of a desiccant filter or aneroid bellows is still strongly recommended.





Model 8950 Ordering guide – Example: 8950-A-(0-15 PSI)-2-D-05-SCV

A	(0-15PSI)	2	D	05	SCV
Pressure Port	Range	Units	Output	Accuracy	Connector
A=1/4" MNPT B=Nose cone C=Other	Specify pressure range in: inches (mm) water, feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) X=Other	D=4-20mA E=0-5VDC F=0-10VDC X=Other	05=0.05% BFSL* 03=0.03% BFSL*	SCV= 1/2" MNPT with Vented Cable*** ECX=Other

Model 8951 Ordering guide – Example: 8951-A-(0-15 PSI)-2-D-05-SCV

A	(0-15PSI)	2	D	05	SCV
Pressure Port	Range	Units	Output	Accuracy	Connector
A=Debris stand-off	Specify pressure range in: inches (mm) water, feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) X=Other	D=4-20mA E=0-5VDC F=0-10VDC X=Other	05=0.05% BFSL* 03=0.03% BFSL*	SCV= 1/2" MNPT with Vented Cable*** ECX=Other

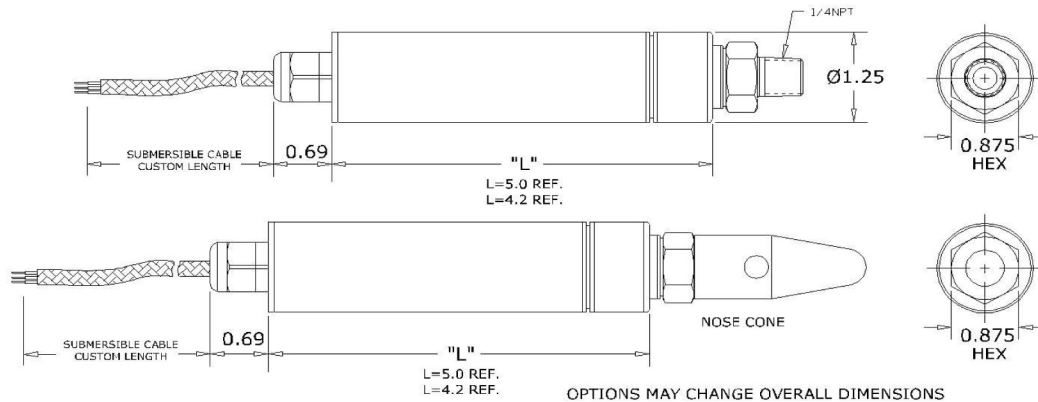
* BFSL = Best Fit Straight Line

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

Dimensions:

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

Model 8950



Model 8951

