

Model 885/8815 “Undrownable” Submersible Transducer

- **Models 885 and 8815 can withstand moisture, condensation or liquid ingress through the vent tube with no damage to the electronics.****
- **Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc**
- **Pressure ranges: 0-2 to 0-100 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**
- **Hytrek jacketed cable**



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 and 0-5 V output)
13-36 Vdc (0-10 V output)
(option C29: max 29 Vdc excitation)
5-10 Vdc (mV/V output)

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

Physical data

Sensor wetted material: 316SS
Body material: 316SS

Pressure connection: ¼” Male NPT (885)
Stainless debris stand-off (8815)
Electrical Connection: ½” MNPT conduit fitting
with vented cable (Hytrek jacket)

**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.

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Model 885 Ordering guide – Example: 885-A-(0-15 PSI)-2-D-5-SCV

A	(0-15 PSI)	2	D	5	SCV
Pressure Port	Range	Units	Output	1	Connector
A=1/4" MNPT B=Nose cone C=Other	Specify pressure range in feet (meters) water, PSI or BAR	1=Absolute 2=Gauge 6=Other	D=4-20mA E=0-5VDC F=0-10VDC	5=0.5% BFSL* 2=0.2% BFSL* 1=0.1% BFSL*	SCV= 1/2" MNPT with Vented Cable*** ECX=Other

Model 8815 Ordering guide – Example: 8815-A-(0-15 PSI)-2-D-5-SCV

A	(0-15 PSI)	2	D	5	SCV
Pressure Port	Range	Units	Output	Accuracy	Connector
A=Debris stand-off	Specify pressure range in feet (meters) water, PSI or BAR	1=Absolute 2=Gauge X=Other	D=4-20mA E=0-5VDC F=0-10VDC X=Other	5=0.5% BFSL* 2=0.2% BFSL* 1=0.1% BFSL*	SCV= 1/2" MNPT with Vented Cable*** ECX=Other

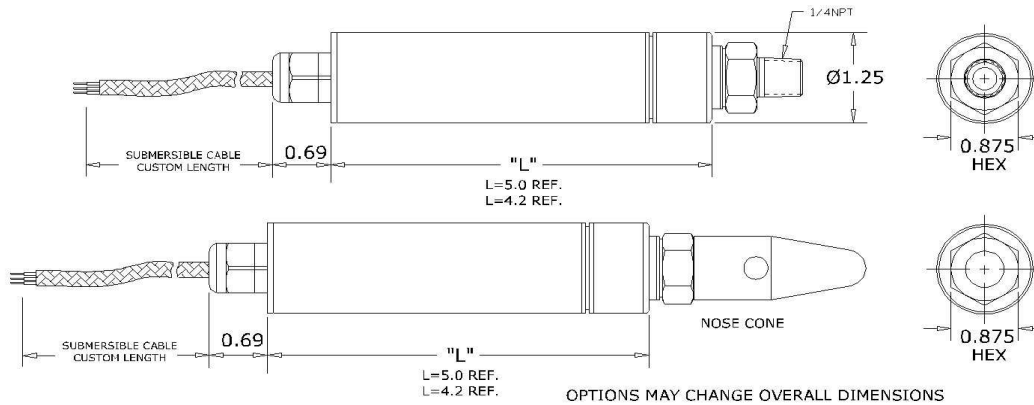
* BFSL = Best Fit Straight Line

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

Dimensions:

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

Model 885



Model 8851

