

Model 881 Submersible Transducer



- Flush diaphragm transducer with debris avoidance stand-off
- Outputs: 4-20mA, 0-5 Vdc, 0-10 Vdc and mV/V
- Standard accuracy of 0.5% BFSL (optional accuracies to 0.1%)
- Built-in, lightning and surge protection
- Unparalleled long-term stability
- 1/2" MNPT conduit connection supplied as standard
- Kynar or Hytrel jacketed cables available
- Pressure ranges from 0-1 PSIG to 0-100 PSIG



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: <5mA
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: Flush diaphragm transducer with debris stand-off

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

Model 881 Submersible Transducer

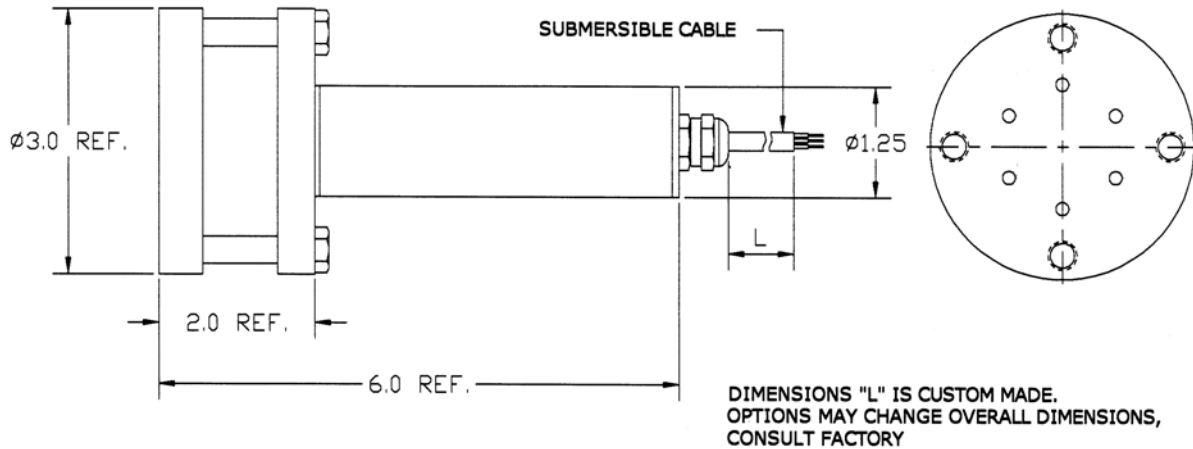
Ordering guide – Example: 881-A-(0-15 PSIG)-2-D-5-SCV

A	(0-15 PSIG)	2	D	1	SCV
Pressure Port	Range	Units	Output	1	Connector
A=Debris stand-off	Specify pressure range in feet (meters) water, PSI or BAR	1=Absolute 2=Gauge (vented cable) 4=Sealed 6=Other	D=4-20mA E=0-5VDC F=0-10VDC M=mV/V	5=0.5% BFSL 2=0.2% BFSL 1=0.1% BFSL	SCV= Vented cable** SCN=Non-vented Cable** ECX=Other (Units supplied with ½" MNPT conduit connections as standard)

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

Dimensions:

(For reference only. Actual dimensions and configuration may vary. Standard configuration includes ½" MNPT conduit connection)



Wiring	4-20mA, Cable
Red	+ excitation
Black	- excitation/signal
Power	9-32 Vdc

Wiring	Voltage, Cable
Red	+ excitation
Green	+ signal
Black	- excitation/signal
White	no connection
Output	Power
0-5 Vdc	9-32 Vdc
0-10 Vdc	13-32 Vdc