

## Model D950 Precision Differential Series

Pressure/Temperature Transducer



- Transmitter is customized to your specific temperature and pressure conditions
- Flexible – Transmitter output mapped to enhance accuracy at any specific Temperature or Pressure range.
- Multiple Outputs – 4-20mA, 0-5V, 0-10V, RS232, RS485, TC, RTD and USB 2.0
- Ranges 0-5 PSID to 1,000 PSID

Spectre's D950 Differential Series Pressure Transducers offer the first available sensors that are manufactured, designed and calibrated to each customer's specific operating conditions. Each transducer output is digitally mapped to correct for any non-linearity or inaccuracies in the sensor. The Model D950 offers wet/wet differential pressure measurements of gases and liquids compatible with stainless steel.

### Performance @ 25°C (77°F)

Accuracy(1):  $<\pm 0.05\%$  BFSL to  $0.03\%$  BFSL  
Stability (1 year):  $\pm 0.25\%$  FS, typical  
Over range 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:  $\pm 1^\circ\text{F}$  ( $\pm 1^\circ\text{C}$ )

### Environmental Data

#### Temperature

Operating: -40 to 85°C (-40 to 185°F)  
Storage: -50 to 125°C (-60 to 250°F)

#### Thermal Limits

Compensated Range: 0 to 55°C (-32 to 130°F)  
Temp Comp Zero:  $<\pm 0.2\%$  FS  
Temp Comp Span:  $<\pm 0.2\%$  FS

### Electrical Data

Excitation: 14-36Vdc (0-10Vdc)  
9-36Vdc (4-20mA and 0-5Vdc)  
Option C29 – Maximum 29 Vdc excitation  
Optional Data Output: RS485, RS232, USB 2.0  
Current Consumption:  $<25\text{mA}$   
Zero Offset:  $<\pm 1\%$  of FS  
Span Tolerance:  $<\pm 1\%$  FS  
Output load:  $> 10\text{K Ohm}$

### Physical Data

Sensor: Wetted Material 17-4 pH SS (others on request)

Pressure Connection: 1/4" MNPT (others on request)

Electrical Connection: Cable, DIN, Cannon, Bendix. Others on request.

**NOTE: Operating temperature range must be specified at time of order placement**



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### Ordering guide – Example: D950-A-(0-50PSID)-D-0-05-EC2

Please inquire for specials or options.

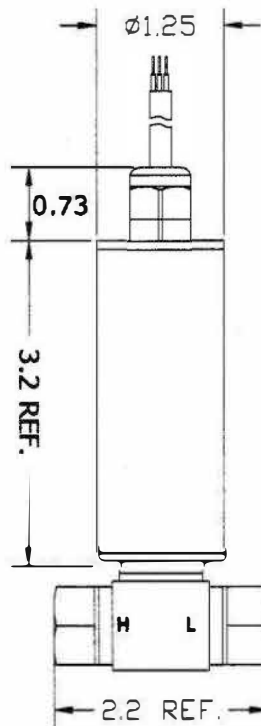
A	(0-50)	D	1	5	EC1
Pressure Port	Range	Pressure Output	Temperature Output	Accuracy	Connector**
A=1/4"MNPT B=SAE-4 Male w/o-ring X=Other	Specify Pressure Range. 0-5 PSID to 0-1,000 PSID  (Contact factory for other ranges)	D=4-20mA E=0-5Vdc F=10Vdc G=RS232 H=RS485 UC=USB 2.0*	0=None 1=4-20mA 2=0-5VDC 3=TC 4=RTD 7=Other	05=0.05% BFSL 03=0.03% BFSL	EC1=36" pigtail EC2=DIN 43650 with mate. Large EC3=Mini DIN EC9=1/2" MNPT conduit w/24" wiring leads ECT=Turck M12 ECX=Other UA=USB "A" connector with 4' cable

\*No analog outputs available with UC option

\*\*Contact factory regarding connector selection when specifying optional temperature output.

### Dimensions

(For reference only. Actual dimensions may vary – Shown with optional external zero & span adjustments)



OPTIONS MAY CHANGE OVERALL DIMENSIONS,  
CONSULT FACTORY

