



## Model S150 Sanitary Series

Pressure/Temperature Transducer

- Transmitter is customized to your specific temperature and pressure conditions
- All Welded Stainless Steel Construction
- 4-20mA, 0-5V, 0-10V, TC and RTD Outputs.
- Suitable for high shock and vibration applications
- Ranges 0-10" WC to 1,000 PSI
- Gage, Sealed Gage, Absolute
- Accuracies to 0.1% BFSL



### DESCRIPTION

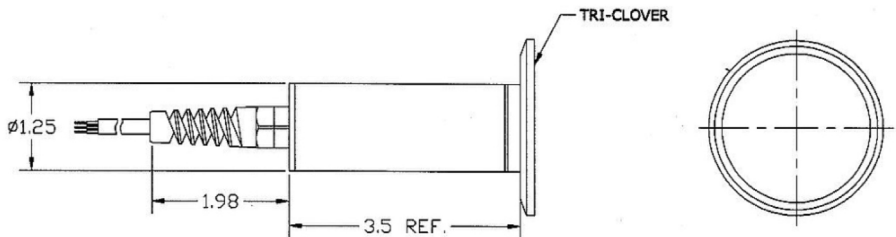
Spectre's Sanitary D150 Series Pressure Transducers offer the first available sensors that are manufactured, designed and calibrated to each customers specific operating conditions. The Model S150 contains no internal O-rings making it ideal for critical pharmaceutical and chemical applications where product contamination is unacceptable.



### FEATURES

- Proprietary Fused Bond Sensor
- Accuracies 0.5% - 0.1% BFSL
- RFI/EMI Protection
- Temperature Compensation at sensor element
- All Welded Stainless Steel Construction
- Unparalleled Long Term Stability

### DIMENSIONS



OPTIONS MAY CHANGE OVERALL DIMENSIONS,  
CONSULT FACTORY





## Model S150 Sanitary Series

Pressure/Temperature Transducer

Ordering Guide. Example: S150-A-(0-500)-2-D-4-5-EC1

Please inquire for specials or options

| A                                | (0-500)                      | 2  | A  | 1                                  | 5                              | EC1  |
|----------------------------------|------------------------------|--|--|------------------------------------|--------------------------------|--|
| Tri-Clover<br>Pressure Port      | Range                        | Units  | Pressure<br>Output                           | Temperature<br>Output              | Accuracy                       | Connector  |
| C=1.5"<br>D=2"<br>E=2.5"<br>F=3" | Specify<br>Pressure<br>Range | 1=Absolute<br>2=Gauge<br>3=Vacuum<br>4=Sealed<br>5=Compound<br>6=Other | D=4-20mA<br>E=0-5Vdc<br>F=0-10Vdc<br>X=Other | 0=None<br>3=TC<br>4=RTD<br>X=Other | 5=0.5%BFSL<br>2=0.2%<br>1=0.1% | EC1=36" pigtail<br>EC2=DIN 43650<br>with mate (large)<br>EC3=Mini DIN<br>ECX=Other |

### Performance @ 25°C (77°F)

Accuracy(1):  $\pm 0.5\%$  BFSL to  $0.1\%$  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 125°C (-65 to 250°F)  
Temperature Accuracy:  $\pm 1^\circ\text{F}$  ( $\pm 1^\circ\text{C}$ )

### Electrical Data

Excitation: 13-36 Vdc (0-10Vdc)  
9-36Vdc (4-20mA, 0-5V)  
Option C29 – Maximum 29 Vdc excitation  
Comms output: Serial RS485, RS232  
Current Consumption: <10mA  
Zero Offset:  $\pm 1\%$  of FS  
Span Tolerance:  $\pm 1\%$  FS  
Output load: > 100 K Ohm

### 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 (-30 to 130°F)  
Temp Comp Zero:  $\pm 1.0\%$  FS ( $\pm 1.5\%$  for 316L)  
Temp Comp Span:  $\pm 1.0\%$  FS ( $\pm 1.5\%$  for 316L)

### Physical Data

Sensor: Wetted Material 316 SS  
Pressure Connection: Tri-Clover  
Electrical Connection: Cable, DIN, Bendix, Cannon

## Applications

Spectre's Model S150 Pressure Transducers offer pressure measurements of gases and liquids compatible with stainless steel. Since the unit contains no internal O-rings or fluid filled cavities, making it ideal for critical pharmaceutical and chemical applications where product contamination is unacceptable.

The Model S150 has been designed specifically for applications with Demanding price and performance requirements. Measurements are available in pressures up to 1,000 PSI.

