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

TRI-CLOVER

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

<table>
<thead>
<tr>
<th>A</th>
<th>(0-500)</th>
<th>2</th>
<th>A</th>
<th>1</th>
<th>5</th>
<th>EC1</th>
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<tbody>
<tr>
<td>Tri-Clover Pressure Port</td>
<td>Range</td>
<td>Units</td>
<td>Pressure Output</td>
<td>Temperature Output</td>
<td>Accuracy</td>
<td>Connector</td>
</tr>
<tr>
<td>C=1.5” D=2” E=2.5” F=3”</td>
<td>Specify Pressure Range</td>
<td>1=Absolute 2=Gauge 3=Vacuum 4=Sealed 5=Compound 6=Other</td>
<td>D=4-20mA E=0-5Vdc F=0-10Vdc X=Other</td>
<td>0=None 3=TC 4=RTD X=Other</td>
<td>5=0.5%BFSL 2=0.2% 1=0.1%</td>
<td>EC1=36” pigtail EC2=DIN 43650 with mate (large) EC3=Mini DIN ECX=Other</td>
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Performance @ 25°C (77°F)
Accuracy: ±0.5% BFSL to 0.1%BFSL
Stability (1 year): ±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 (-55 to 250°F)
Temperature Accuracy: ±1°F (±1°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: <±1% of FS
Span Tolerance: <±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: <±1.0% FS (±1.5% for 316L)
Temp Comp Span: <±1.0% FS (±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.