



## Model UL300 Safeguard Series UL Approved Pressure Transducer

- Eliminate Drift – Fused Bond sensor technology for long term stability
- Eliminate Noise – Maximum RFI/EMI protection on every transducer
- Temperature Compensation at sensor element
- Suitable for high shock and vibration applications
- No Silicone oil, no internal o-rings, no welded diaphragms!
- Ranges 0-5PSI to 30,000 PSI
- Gage, Sealed Gage, Absolute

### DESCRIPTION

Approved to UL 1604 (CSA 213) Class 1 Div 2, Groups A, B, C and D for use in Hazardous areas.

Spectre's industrial pressure transducers are specifically engineered to eliminate the two most common problems with pressure transducers, noise and drift.

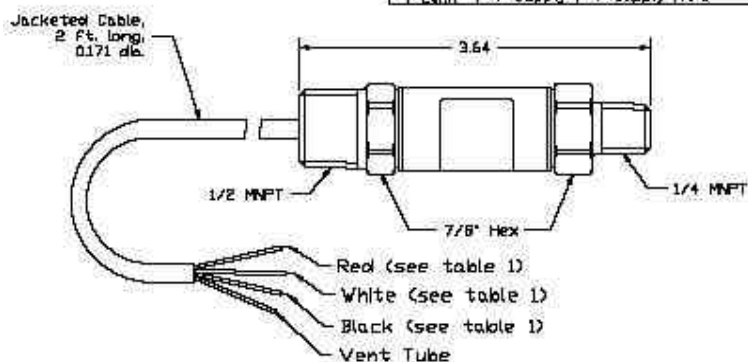


### FEATURES

- Proprietary Fused Bond Sensor
- Accuracies 0.5% to 0.1% BFSL
- 100% RFI/EMI Protection
- Temperature compensation at sensor element. (Faster, automatic)
- Sensor Wetted Material Machined From Solid Stainless Steel Bar Stock (No Welds)
- Unparalleled Long Term Stability

### Dimensional Data

Output	Red	Black	White
1-5V	+V Supply	-V Supply	Output
4-20mA	+V Supply	-V Supply	N/C



# Model UL300 Safeguard Series



Ordering Guide. Example: UL300-A-(0-500)-2-A-2-EC1-174

Please inquire for specials or options

A	(0-500)	2	A	2	EC1	174
Pressure Port	Range	Units	Pressure Output	Accuracy	Connector	Material
A=1/4"MNPT B=SAE-6 C=other	Specify Pressure Range	1=Absolute 2=Gauge 3=Vacuum 4=Sealed 5=Compound 6=Other	A=4-20mA B=1-5Vdc C=1-6Vdc	2=0.25%BFSL	EC1=Wiring leads	174=17-4 ss 316=316 ss

## Performance @ 25°C (77°F)

Accuracy(1): <math>\pm 0.25\%</math> BFSL
Stability (1 year): $\pm 0.25\%$ FS, typical
Overrange protection: 2X Rated Pressure
Burst Pressure: 2.5X Minimum
Pressure Cycles: >100 Million
Temperature Range: -55 to 125° (-65 to 250°F)
Temperature Accuracy: $\pm 1^\circ\text{F}$ ( $\pm 1^\circ\text{C}$ )

## Electrical Data

Excitation: 10-28 Vdc
Output: 4-20mA, 1-5Vdc or 1-6Vdc
Current Consumption: <math>< 10\text{mA}</math>
Zero Offset: $<\pm 1\%$ of FS
Span Tolerance: $<\pm 1\%$ FS
Output load: > 100 K Ohm

## Environmental Data

<b>Temperature</b>
Operating: -40 to 85°C (-40 to 185°F)
Storage: -50 to 125°C (-60 to 250°F)
<b>Thermal Limits</b>
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 17-4 pH SS (others on request)
Pressure Connection: 1/4" MNPT (others on request)
Electrical Connection: Wiring leads, DIN or Packard

## Applications:

UL has approved Spectre's pressure products for use in hazardous locations. Approved to UL 1604 (CSA 213) Class 1 Div 2, Groups A, B, C and D for use in Hazardous areas, with adjustable zero and span pots for ease of calibration in the field.

## Contact Information

Spectre Sensors, Inc.  
1651-D Crossings Parkway  
Westlake, OH 44145  
877-297-6965 / Phone  
440-835-3599 / Fax  
info@spectresensors.com



**Spectre Sensors**