



# **UL300 Series Non-Incendive Pressure Transducer**



- Eliminate Drift Fused Bond sensor technology for long term stability
- Sensor wetted material machined from solid stainless steel bar stock – no welding
- No silicone oil fill, no internal o-rings, no welded diaphragms
- RFI/EMI protection on every transducer
- Outputs: 4-20mA, 1-5 Vdc and 1-6 Vdc
- Pressure ranges 0-5 PSI to 10,000 PSI
- Standard accuracy of 0.25% BFSL
- Approved to UL1604 (CSA 213) for Class 1, Div 2, Groups A, B, C and D, Non-Incendive for use in Hazardous Areas.
- Optional external Zero & Span controls (specify Model UL310)



Spectre's Series UL300 and UL310 Pressure Transducers are specifically engineered with proprietary Fused Bond sensor technology to eliminate the two most common problems with pressure transducers, noise and drift. The UL300 and UL310 (with zero & span) are approved to UL 1604 (CSA 123) for use in Class 1, Div 2, Group A, B, C & D hazardous areas

### Performance @ 25℃ (77℉)

Accuracy: <±0.25% BFSL

Stability (1 year): <±0.25% FS, typical Over pressure protection: 2X Rated Pressure

Burst Pressure: 5X or 20,000 PSI (whichever is less)

Pressure Cycles: >100 Million

Temperature range: -55 to +125 $^{\circ}$ C (-65 to +250 $^{\circ}$ F)

Temperature Accuracy: ±1℃ (±1℃)

#### **Environmental Data**

Operating temp: -40 to + 85 $^{\circ}$ C (-40 to +185 $^{\circ}$ ) Storage temp: -50 to +125 $^{\circ}$ C (-60 to +250 $^{\circ}$ C) Compensated range: 0 to 55 $^{\circ}$ C (-32 to +130 $^{\circ}$ F)

Temp comp Zero: <±1.5% FS Temp comp Span: <±1.5% FS

### **Electrical Data**

Excitation: 10-26 Vdc

Output: 4-20mA, 1-5 Vdc, 1-6 Vdc Current consumption: <5 mA Zero offset: <±1% of FS Span tolerance: <±1% of FS Output load: >100K Ohm Isolation: 50 MOhm @ 250 VDC

Output Impedance: <50 Ohm (voltage outputs)

#### Physical data

Sensor wetted material: 17-4 PH stainless (316SS

optional

Pressure Connection: 1/4" & 1/8"MNPT, SAE-4 Electrical connection: ½" MNPT conduit connection

with 24" wiring leads

Shock: 100G, 11msec; ½ sine Vibration: 20G peak, 20 to 2400 Hz ANSI/ISA 12.27.01.2003 compliant



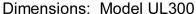
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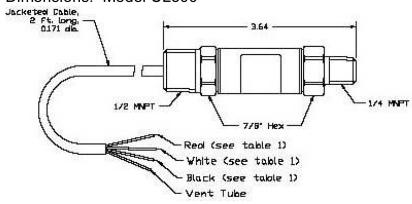


# **UL300 Series Non-Incendive Pressure Transducer**

Ordering guide - Example: UL300-A-(0-100PSI)-2-A-EC9-174

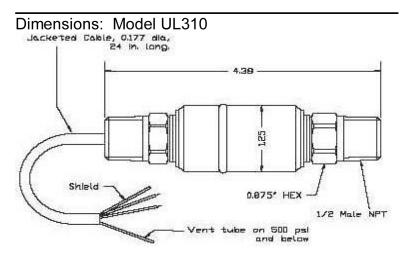
UL300	Α	0-100PSI	2	Α	EC9	174
Model	Pressure port	Range	Units	Output	Connector	Material
UL300 UL310 (with zero And span)	A=1/4" MNPT B=SAE-4 C=1/8" MNPT	Specify pressure range in: PSI (5-10,000)	2=Gauge 4=Sealed 5=Compound 6=Other	A=4-20mA B=1-5Vdc C=1-6Vdc	EC9=1/2"MNPT w/24" leads ECX=Other	174=17-4 ss 316=316 ss





Wiring	4-20mA output, Cable		
White	+ excitation		
Black	- excitation/signal		
Power	10-28 Vdc		

Wiring	Voltage output, Cable		
Red	+ excitation		
White	- signal		
Black	- excitation/signal		
Power	10-28 Vdc		



All above dimensions may vary with options. Specifications subject to change without prior notice.



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