



## ASD Pressure Strap Transducer The first non-invasive pressure transducer Preliminary Datasheet

### Mechanical

Material: Stainless Steel Construction with Aluminum Electronics Housing  
 Connector Customer Specified Connector  
 Pressure Range: Only limited by Customer's Equipment (Passive Measurement)  
 Overload: Only limited by Customer's Equipment (Passive Measurement)

### Electronic Certifications

Intrinsically Safe Certified by Electronics Manufacturer  
 Locations: Zone 1 when used with an approved safety barrier.

### Electrical

Supply Voltage 10-28 VDC  
 Current Requirement/Output: 4 -20 mA  
 Output: 2 wire current loop  
 Accuracy: 3% FS  
 Stability: (1 Year)  $\pm 0.25\%$ FS, typ  
 Zero Offset:  $< \pm 1\%$  of FS  
 Span Tolerance:  $< \pm 2\%$  of FS  
 Output Load: 0-800 Ohms @ 10-28VDC

### Temperature

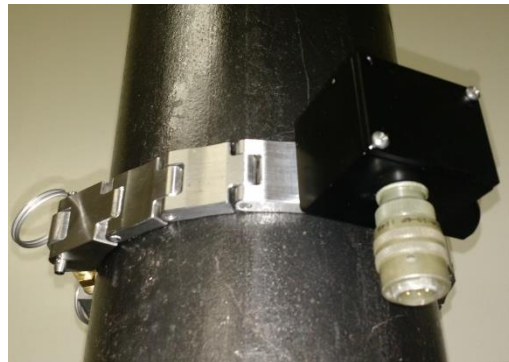
Operating: -40 to 85°C (-40 to 185°F)  
 Storage: -40 to 100°C (-40 to 212°F)

### Thermal Limits

Compensated Range 0 to 55°C (30 to 130°F)  
 Temp. Comp. Zero:  $< \pm 1.5\%$  of FS  
 Temp. Comp. Span:  $< \pm 1.5\%$  of FS

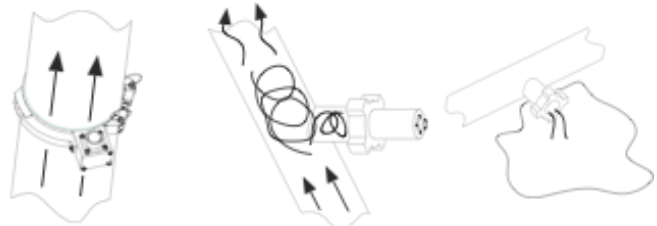
### Other

Shock: 100G, 11 msec, 1/2 sine  
 Vibration: 10G peak, 20 to 2000 Hz.  
 Rating: IP-66  
 Reverse Polarity Protection: Yes



**Community Design No. 0014168120-0001-0002**  
**Design Patent No: D718, 163**  
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**Chinese Design Patent No: ZL201430227096.6**  
**Other Patents Pending**

1. The unit is Intrinsically Safe. 4-20 mA standard output pressure transducer.
2. Stainless Steel Strap with Aluminum Housing
3. Connector - Client Specified
4. IS certification to ATEX in place, Canadian and AEx (US) Certs are planned.
5. Pressure rating specified by client and is only limited by Client's Equipment.



Pressure Strap Transducer (left) provides accurate pressure reading without penetrating the pipe (center & right).