



Pressure, Flow,  
Level & Temperature Products

## Safety and process control sensors



**PRECISION  
SENSORS**



- 100% passive
- No software needed
- Up to 5 million cycle
- ISO 13849



Flow switch

For gases and liquids  
Up to 125 deg. C  
No friction. No seals  
No power required



SIL3  
Safety Integrity Level

**We match your specification, exactly!**  
**Get your design right, the first time**  
**Compliance with global safety requirements**

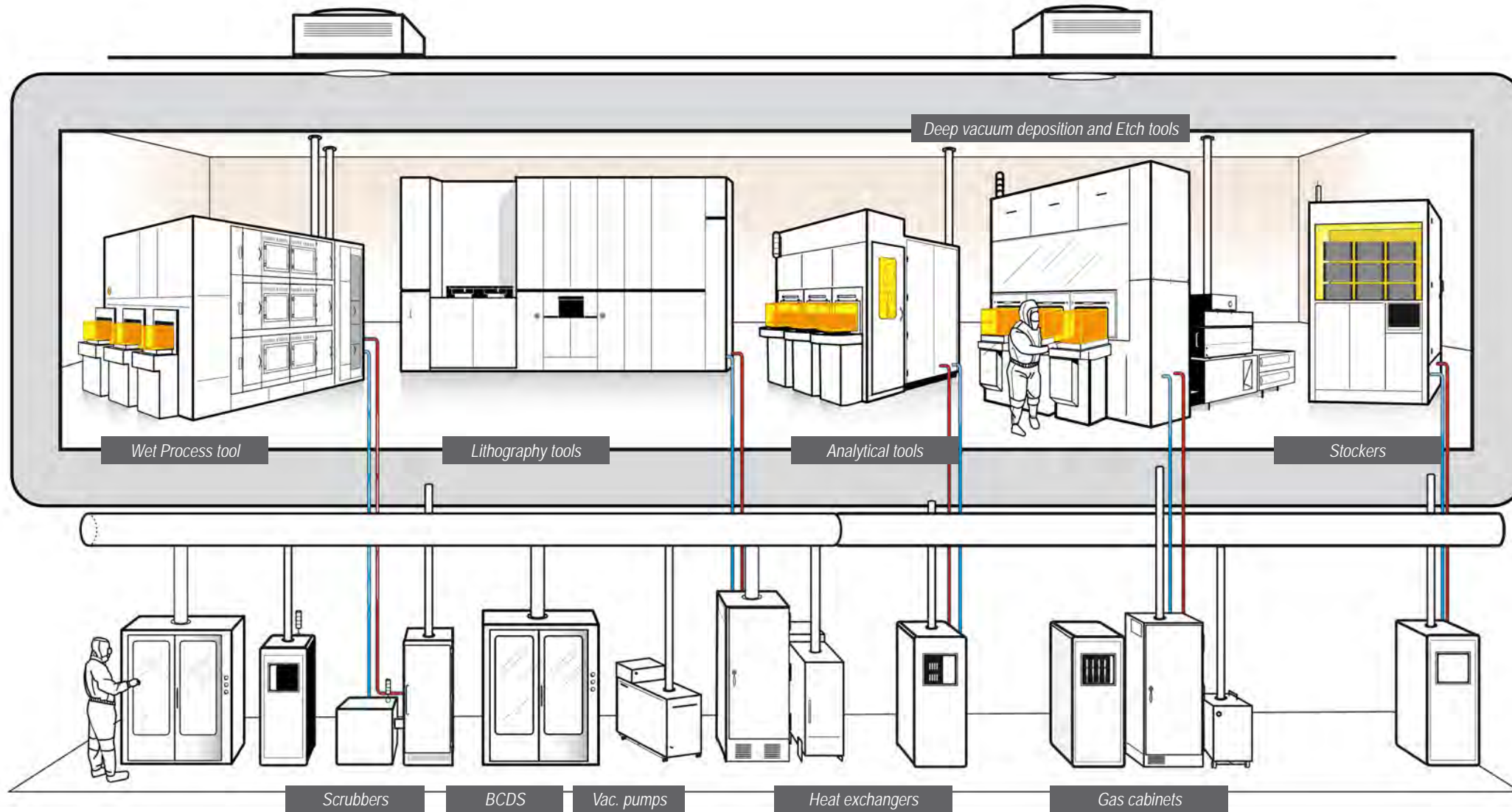
- 100% analog device
- Software free
- 200,000 hours MTTF
- UL rated



Absolute pressure switch

Loss of vac. detection  
Process pressure monitoring  
Factory set point  
Up to 180 deg. C

SIL3  
Safety Integrity Level



Pressure transducer



Process gas pressure monitoring  
Sensor die accuracy  
+/-0.14%FS  
Compound range  
100% analog design

Ex  
ATEX Optional



Electronic switch



3-in-1 device  
Window mode switch  
Absolute and gage  
Gas boxes and IGS  
Galvanic isolation  
Switch relay



Gage pressure switch

Over pressure detection  
Heath monitoring  
Factory set point  
5 million cycle



SIL3  
Safety Integrity Level



Temperature sensor

Chemical temperature sensor  
Switch or PT100  
All media  
PFA and 316L



Ultra Low Differential Pressure Monitor

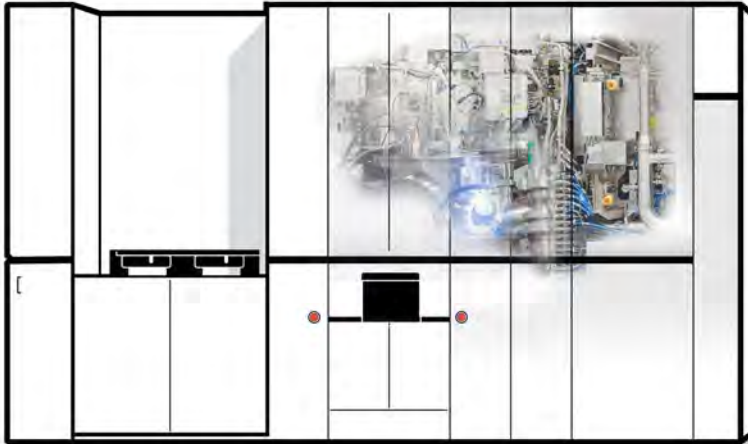
Stability down to 0.1" WC  
Enabling exhaust cost reduction  
Auto diagnostic: Software Free  
LPS version with 2 independant switches: UL508  
LDP version with independant switch: UL991  
with optional analog outputs



Differential pressure sensor

Stainless steel version  
for corrosive media





Providing ultimate health monitoring and safety to \$100 million Dollar type equipment

## Performance

Low Pressure Monitoring  
Auto-diagnostic  
Software free  
0.1" WC sensitive

Transducer (Three-in-One)  
Display, Switch & Transducer  
200,000 h. MTTF

Pressure switches  
Up to 5 million cycle

## Credentials

Top-5 largest OEM safety solution supplier  
Vac., Wet, Hot, Litho, Dry  
CMP, All media

Running in 100% of 300 mm fabs.  
Worldwide

## Financial value

Cost effective, with proven design.

Sil-2 and Sil-3 capable components

Space savings with combo designs

Up to 5-year warranty

Proprietary parts to OEMs



## SIL-3 Capable Functional Safety rated devices: tangible benefits

Inherently, such SIL-3 capable components contribute to make your tool more reliable and to increase uptime and availability.

Additionally, SIL-3 capability will improve your companies' ability to achieve product certification resulting in improved time-to-market.

**By law, we all have to comply with safety certifications: SIL-3 capability makes possible to reach most stringent semiconductor's industry requirements.**

SIL-3 capability requires a complete and systematic analysis for potential unsafe failure modes. The allowable limit for unsafe failures is just 1 dangerous failure per 1,000,000 operating hours! SIL-3 capability requires strict adherence to quality systems processes resulting in consistent management and manufacturing processes.

Specifications subject to change, for information only. Do not use for design purposes.



**UNITED ELECTRIC  
CONTROLS**

**Precision Sensors Division**

340 Woodmont Road  
Milford, CT 06460  
Tel: (203) 877-2795  
Fax: (203) 877-8752  
Email : sales@precisionsensors.com  
www.precisionsensors.com

