



Calibration Statement of Scope  
ISO 17025 (2005)

**I. THERMODYNAMICS**

Temperature -20°C to 200°C  
Best Uncertainty: 0.3°C  
Comment: Ambient and Gas Temperatures

**II. FLUID QUANTITIES**

Measurement of Gases: 1 sccm to 13,000 slm  
Best Uncertainty: 0.2%  
Comments: Flow units, sccm and slm are defined in SEMI E12  
  
Calibration of Pressure Devices: 1100 to  $1 \times 10^{-6}$  Torr ( $146.65$  to  $1.33 \times 10^{-8}$  kPa)  
Best Uncertainty: 1.0%  
Comments: Gauge, negative gauge and absolute

**III. ELECTRICAL**

Electrical Calibration of Transducers and Flow meters

<u>Range</u>	<u>Best Uncertainty</u>
(1 to 100) mV	0.006% + 3.5 $\mu$ V
100 mV to 1V	0.006% + 7 $\mu$ V
(1 to 10) V	0.006% + 50 $\mu$ V
(10 to 100) V	0.006% + 0.6 mV
10 mA	0.004 mA
100 mA	0.015 mA

**IV. ON-SITE CALIBRATION SERVICES**

Flow Measurement of Gases: 1 sccm to 13,000 slm  
Best Uncertainty: 0.2%  
Comments: Flow units, sccm and slm are defined in SEMI E12  
  
Calibration of Pressure Devices:  $1 \times 10^{-6}$  to 1100 Torr ( $1.33 \times 10^{-8}$  to 146.65 kPa)  
Best Uncertainty: 0.5 %  
Comments: Gauge, negative gauge and absolute