

Calibration Statement of Scope ISO 17025 (2005)

I. MECHANICAL

Calibration of linear gauges: 0.001 to 12.0 inches (0.0254 to 304.80 mm)
 Best Uncertainty: 0.00005 inches (0.00127 mm)
 Comment: NIST Traceable Gage Blocks

II. THERMODYNAMICS

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

III. 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 1×10^{-6} Torr (146.65 to 1.33×10^{-8} kPa)
 Best Uncertainty: 1.0%
 Comments: Gauge, negative gauge and absolute

IV. ELECTRICAL

Electrical Calibration of Transducers and Flow meters

Range	Best Uncertainty
(1 to 100) mV	0.006% + 3.5 μ V
100 mV to 1V	0.006% + 7 μ V
(1 to 10) V	0.006% + 50 μ V
(10 to 100) V	0.006% + 0.6 mV
10 mA	0.004 mA
100 mA	0.015 mA
(1 to 100) Ω	0.01 % + 4 m Ω
(100 to 1000) Ω	0.01 % + 40 m Ω
Comment:	HP 34401A

V. 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: 1×10^{-6} to 1100 Torr (1.33×10^{-8} to 146.65 kPa)
 Best Uncertainty: 0.5 %
 Comments: Gauge, negative gauge and absolute