

Scope of Accreditation For Graftel, Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Graftel, Inc.** to perform the following **Calibrations**:

Accreditation granted through: **March 28, 2011**

Calibration

Mass – Flow

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Gas Flow Rate	1 sccm to 24 slm	0.28% of reading	Flow Tubes
	24 slm to 141 584 slm	0.21% of reading	Sonic Nozzles
Gas Flow Rate ¹	1 sccm to 1 500 slm	0.5% of reading	Laminar Elements
Liquid Flow Rate	1 ccm to 300 lpm	0.06% of reading	Weighing Method
	300 lpm to 1 800 lpm	0.1% of reading	Coriolis Flow System
Liquid Flow Rate ¹	1 ccm to 400 lpm	0.1% of reading	Coriolis Flow System
	2 in to 48 in lines	1% of reading	Ultra Sonic Flow Meters
Air Velocity	2 m/s to 50 m/s	0.5% of reading	Wind Tunnel Pitot Tube
	0.5 m/s to 50 m/s	1% of reading	Ultra Sonic Anemometer

Thermodynamic – Humidity

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Relative Humidity	1 % RH to 60 % RH 61 % RH to 95 % RH	0.5% RH 1 % RH	Chilled Mirror Hygrometer PRT

Thermodynamic – Thermocouples

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Temperature ¹	-100 °C to 180 °C	0.023 °C	Temperature Baths PRT
Dew Point Temperature	-80 °C to 20 °C	0.22 °C	Two Temperature Generator PRT

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.
- 2) Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.



Approved by: _____ Date: December 18, 2009

R. Douglas Leonard
Chief Technical Officer

Revised: 9/22/05

Revised: 1/8/07

Revised: 12/5/07

Revised: 1/7/09

Revised: 12/18/09