



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

A.R. SERVICES

Grimsby, Ontario CANADA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 8th day of August 2009.





Peter Meyer

President & CEO
For the Accreditation Council
Certificate Number 2823.01
Valid to May 31, 2011

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO 17025-2005

A.R. SERVICES
 104-155 Main Street East, Suite 215
 Grimsby, Ontario, CANADA L3M 1P2
 Jeff Stackhouse Phone: 905 309 5990

CALIBRATION

Valid To: May 31, 2011

Certificate Number: 2823.01

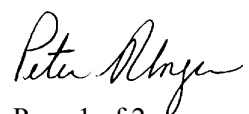
In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Chemical

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Conductivity Meters	(5.4 to 2764) µS	0.012 µS	Using certified solutions

II. Mechanical

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Pressure – Vacuum	(-13 to 0) psig	0.16 psi	Druck DPI 705
Pressure	(0 to 500) psig	0.01 psi	Beta PI-500
	(0 to 10 000) psig	1.5 psi	Druck DPI 705



III. Thermodynamics

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Temperature Sensors ³ – Types RTD, J, K, T Types J, K, R, S, T	-112 °F to 600 °F 600 °F to 2400 °F	0.29 °F 1.0 °F	Hart 1502 A / Pt100 (385) Martel M3001 / S T/C
Temperature – Instruments	-112 °F to 2642 °F	0.25 °F	Martel M3001
Relative Humidity – Measuring Instruments Measure	(10 to 95) % RH (10 to 95) % RH	0.53 % RH 1.8 % RH	Kaymont 2000 Vaisala HMP 233

¹ This laboratory offers commercial calibration service.

² “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

³ “The best uncertainty stated is for one or more of the thermocouple types that the calibrator is capable of performing. See measurement uncertainty budgets for the “Best Uncertainty” for a specific thermocouple type. It is also important to note that the “Best Uncertainty” stated on each calibration certificate, reflects the applicable uncertainty for the customer’s thermocouple type.