



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

THERMO-KINETICS COMPANY LIMITED  
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CALIBRATION

Valid To: February 28, 2019

Certificate Number: 2775.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Electrical Calibration of RTD Indicating Devices –  Pt 385, 100 Ω	(-200 to 0) °C (0 to 400) °C (400 to 800) °C	0.18 °C 0.27 °C 0.48 °C	Fluke 743B

II. Thermodynamic Quantities

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Temperature Measuring Equipment – Thermocouple Devices  Type E	(-196 to 150) °C (150 to 400) °C (400 to 500) °C (500 to 1000) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 0.47 °C	Hart 5626 secondary PRT, type S thermocouple and Agilent 34420A

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Temperature Measuring Equipment – Thermocouple Devices (cont)			
Type J	(-196 to 150) °C (150 to 400) °C (400 to 500) °C (500 to 760) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 0.47 °C	Hart 5626 secondary PRT, type S thermocouple, and Agilent 34420A
Type K	(-196 to 150) °C (150 to 400) °C (400 to 500) °C (500 to 1100) °C (1100 to 1300) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 0.47 °C 1.1 °C	
Type N	(-196 to 150) °C (150 to 400) °C (400 to 500) °C (500 to 1100) °C (1100 to 1300) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 0.47 °C 1.1 °C	
Type R	(0 to 150) °C (150 to 400) °C (400 to 1100) °C (1100 to 1300) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 1.1 °C	
Type S	(0 to 150) °C (150 to 400) °C (400 to 1100) °C (1100 to 1300) °C	0.03 °C (30 mK) 0.26 °C 0.41 °C 1.1 °C	
Type B	(500 to 1100) °C (1100 to 1300) °C	0.47 °C 1.1 °C	
Type T	(-196 to 150) °C (150 to 400) °C	0.03 °C (30 mK) 0.26 °C	
Temperature Measuring Equipment – RTD Devices			
Pt 385, 100 Ω	(-196 to 150) °C (150 to 400) °C (400 to 600) °C	0.023 °C (23 mK) 0.041 °C 0.068 °C	Hart 5626 secondary PRT and Hart 1529

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Temperature Measuring Equipment – Transmitters	(-196 °C to 500 °C)	0.03 °C (30 mK)	Hart 5626 secondary PRT, and Agilent 34420A
Temperature Measuring Equipment – Infrared Thermometers	(0 to 400) °C (400 to 1500) °C (1500 to 2500) °C	1.3 °C 2.6 °C 5.9 °C	Black body furnace PRT and IR thermometers

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<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) 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 or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.



## Accredited Laboratory

A2LA has accredited

### **THERMO-KINETICS COMPANY LIMITED**

*Mississauga ON, 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 R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 28<sup>th</sup> day of February 2017.

A handwritten signature in blue ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 2775.01  
Valid to February 28, 2019

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