



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ENDRESS+HAUSER CANADA LTD.  
1075 Sutton Drive  
Burlington, Ontario, CANADA L7L 5Z8  
Steve Schmitt (Quality Manager) Phone: 905 681 4265  
Mike Miller (Calibration Manager) Phone: 905 630 1085

CALIBRATION

Valid To: June 30, 2016

Certificate Number: 3597.01

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. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup>	Comments
Liquid Flow (Water) – Flowmeter <sup>3</sup> :			
Mass Flowrate	Up to 250 kg/min	0.12 %	Portable flow rig with Coriolis master meters 83F08, 83F25, 83F50
Volumetric Flowrate	Up to 250 l/min	0.12 %	
Mass Flowrate (Current)	Up to 250 kg/min	0.17 %	
Volumetric Flowrate (Current)	Up to 250 l/min	0.17%	

## II. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup>	Comments
Vacuum/Pressure <sup>3</sup> – Gauges and Transducers			
Pneumatic, Gauge Pressure	(-160 to 160) inH <sub>2</sub> O  (-15 to 30) psig  (-15 to 300) psig	0.12 inH <sub>2</sub> O  0.020 psig  0.12 psig	Beamex MC6 Field Calibrator, pneumatic pressure source.

## III. Thermodynamic

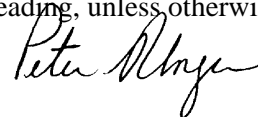
Parameter/Equipment	Range	CMC <sup>2</sup>	Comments
Temperature <sup>3</sup> – RTD Thermometers	(-15 to 110) °C (50 to 350) °C	0.16 °C 0.20 °C	Beamex MC6 Field Calibrator, Fluke Dry- Block and precision RTD temperature probe

<sup>1</sup> This laboratory offers commercial calibration and field calibration services, where noted.

<sup>2</sup> Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

<sup>3</sup> Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC, the value is defined as the percentage of reading, unless otherwise noted.





American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

**ENDRESS+HAUSER CANADA LTD.**

*Burlington, 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 2<sup>nd</sup> day of April 2014.





President & CEO  
For the Accreditation Council  
Certificate Number 3597.01  
Valid to June 30, 2016

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