



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

H & H ENVIRONMENTAL SYSTEMS, INC.
385 Adirondack Street
Rochester, NY 14606
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Calibration

Valid to: December 31, 2020

Certificate Number: 5022.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,3}:

I. Electrical – DC Low Frequency

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Electrical Simulation of Thermocouples Type T	(-20 to 0) °C (0 to 100) °C	1.1 °C 0.70 °C	Fluke 725 process calibrator

II. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Accelerometers	(2.5 to 100) Hz 100 Hz (100 to 1000) Hz (1000 to 2000) Hz (2000 to 3500) Hz	2.7 % 1.6 % 2.5 % 3.1 % 5.5 %	Vibration research VR9500, PCB Piezotronics 301A10 reference accelerometer

III. Thermodynamics

Parameter/Equipment	Range	CMC ^{2, 4} (±)	Comments
Relative Humidity – Measure	(10 to 75) % RH (75 to 98) % RH	0.85 % RH 0.98 % RH	Vaisala HMI141, HMP46

¹ This laboratory offers commercial calibration service.

² 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.

³ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁴ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



Accredited Laboratory

A2LA has accredited

H & H ENVIRONMENTAL SYSTEMS, INC.

Rochester, NY

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 9th day of April 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5022.02
Valid to December 31, 2020

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