



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, 2024

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^{1,5}:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Electrical Simulation of Thermocouple Temperature Indicating Devices ³			Fluke 725 process calibrator
Type J	(-200 to 0) °C (>0 to 1200) °C	1.4 °C 0.7 °C	
Type K	(-200 to 0) °C (>0 to 1370) °C	1.6 °C 0.8 °C	
Type T	(-200 to 0) °C (>0 to 400) °C	1.5 °C 0.75 °C	
Electrical Simulation of RTD Temperature Indicating Devices ³			Fluke 725 process calibrator
Pt 100 - 385	(-200 to 0) °C (>0 to 800) °C	0.13 °C 0.42 °C	
Pt 100 - 3916	(-200 to 0) °C (>0 to 630) °C	0.13 °C 0.42 °C	
Pt 1000 - 385	(-200 to 0) °C (>0 to 630) °C	0.23 °C 0.68 °C	

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Electrical Simulation of Relative Humidity ³ Indicating Devices	(0 to 100) % RH (0 to 10) V DC (0 to 20) mA	0.024 % rdg + 0.012 % RH 0.028 % rdg + 0.018 % RH	Fluke 725 process calibrator

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 laboratory performs field calibration activities for these parameters. 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.

⁴ In the statement of CMC, the percentages are percentages of reading, unless otherwise noted.

⁵ This scope meets A2LA's *P112 Flexible Scope Policy*.



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 27th day of June 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5022.02
Valid to December 31, 2024

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