SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HUMBOLDT SCIENTIFIC, INC. dba HUMBOLDT MFG. CO.
2525 Atlantic Ave.
Raleigh, NC 27604
Nestor Chonillo Phone: 708 468 6386

CALIBRATION

Valid To: January 31, 2028 Certificate Number: 3956.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 5]:

I. Dimensional

Parameter/Equipment	Range	CMC[2] (±)	Comments
Linear Displacement Indicators and Transducers[3]	(0.008 to 0.4) in (0.4 to 1.0) in (1.0 to 2.0) in	180 µin 280 µin 510 µin	Micrometer head, gage blocks

II. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC[2] (±)	Comments
Electrical Density Gauge[3]	(50 to 1000) Ω	27 Ω	Master MCU

III. Mechanical

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Pressure Gauge[3]	Up to 300 psi	0.10 %	Pressure calibrator

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Load Cells[3]	(50 to 500) lbf (500 to 1000) lbf (1000 to 2000) lbf (2000 to 5000) lbf (5000 to 10 000) lbf	0.69 % 0.35 % 0.31 % 0.19 % 0.10 %	Load cells, dead weights, ASTM E4
Density Blocks[3]	(1100 to 2725) kg/m^3	0.050 %	Calipers, load cells, scales, nuclear gauge
Moisture Blocks[3]	Up to 800 kg/m^3	0.40 %	Nuclear density gauge
Nuclear Density Gauge[3] – Density Moisture	 (1100 to 2725) kg/m^3 Up to 800 kg/m^3	 0.13 % 0.60 %	Density and moisture blocks

[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] Field calibration service is available for this calibration. 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, percentages are percentage of reading, unless otherwise indicated.

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

Accredited Laboratory

A2LA has accredited

HUMBOLDT SCIENTIFIC, INC. DBA HUMBOLDT MFG. CO.

Raleigh, NC

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 28th day of April 2026.

Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3956.01
Valid to January 31, 2028

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