



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Mechanical Calibration Services, Inc.

**252 North 850 East
Lafayette, IN 47905**

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

L2134-1
Certificate Number


ANAB Approval

Certificate Valid: 11/28/2018-02/08/2021
Version No. 002 Issued: 11/28/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Mechanical Calibration Services, Inc.

252 North 850 East
Lafayette, IN 47905
Jim Withers
765-296-5081

CALIBRATION

Valid to: February 8, 2021

Certificate Number: L2134-1

Electrical – DC/Low Frequency

Table with 4 columns: Parameter/Equipment, Range, Expanded Uncertainty of Measurement (+/-), Reference Standard, Method, and/or Equipment. Rows include DC Current, RTD Temperature Simulation, and Thermocouple Temperature Simulation.

Length – Dimensional metrology

Table with 4 columns: Parameter/Equipment, Range, Expanded Uncertainty of Measurement (+/-), Reference Standard, Method, and/or Equipment. Rows include Outside Micrometer, Inside Micrometer, Height Gage, and Depth Micrometer.



Length – Dimensional metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Caliper ^{1,2,3}	(0 to 12) in (12 to 36) in (36 to 60) in	(430 + 1.5L) μin (550 + 8L) μin (710 + 3L) μin	Comparisons made with Gage Blocks and using Surface Plate
Dial / Digital Indicator ^{1,2}	(0 to 3) in	(290 + 0.7L) μin	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pressure ¹	(0 to 15) psig (15 to 500) psig (500 to 10 000) psig	0.001 9 psi 0.014 psi 0.77 psi	Fluke 700/750 Series Pressure Module & 744 Process Calibrator
Torque Wrench ¹	(2.5 to 25) lbf·ft (25 to 250) lbf·ft (250 to 1 000) lbf·ft	0.28 lbf·ft + 0.17 % of reading 0.2 lbf·ft + 0.53 % of reading 0.76 lbf·ft + 0.52 % of reading	Torque Transducers

Time and Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Process Timers ¹	(4.5 to 60) seconds (1 to 60) minutes (1 to 30) hours	1.2 seconds + 0.02 % of reading 1.2 seconds + 0.06 % of reading 1.2 minutes + 0.1 % of reading	Direct Comparison to Stopwatch

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. L = length in inches.
3. Onsite capability limited to 24 inches only.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. L2134-1.


 Vice President