



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

MetriCal Laboratories, LLC
1 Sinco Place, East Hampton, CT 06424

*and hereby declares that the Organization is accredited in accordance with
the recognized International Standard:*

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional, Mechanical, and Mass, Force, and Weighing Devices Calibration
(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

February 28, 2009

November 13, 2025

January 31, 2028

Accreditation No.:

Certificate No.:

62320

L25-842

Tracy Szerszen
President

*The validity of this certificate is maintained through ongoing assessments based
on a continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjllabs.com*

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084



Certificate of Accreditation: Supplement

MetriCal Laboratories, LLC

1 Sinco Place, East Hampton, CT 06424
 Contact Name: Joe Christian Phone: 860-267-1109

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (\pm) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Gage Blocks	0.01 in to 4 in	(2.3 + 2.1L) μ in	P&W Lab Master Universal Gage Blocks Grade 1	MCL CWI-0045	F1, F3	F
Dimensional	Gage Blocks	4 in to 20 in	(7.7 + 2.1L) μ in	Joint Industries DMS-680 Gage Blocks Grade 1	MCL CWI-0045	F1, F3	F
Dimensional	Cylindrical Plain OD Gages	1 in to 9.5 in	(6.8 + 1.7L) μ in	P&W Lab Master Universal Gage Blocks Grade 1	MCL CWI-0110	F1, F3	F
Dimensional	Cylindrical Pins, Plugs, and Thread (Major Diameter)	0.01 in to 27 in	(14 + 0.65L) μ in	Joint Instruments DMS-680 Gage Blocks Grade 1	MCL CWI-0080	F1, F3	F
Dimensional	Cylindrical Ring Gages	0.02 in to 0.04 in	22 μ in	P&W Lab Master Universal Gage Blocks Grade 1	MCL CWI-0046	F1, F3	F
Dimensional	Cylindrical Ring Gages	0.04 in to 4 in	(22 + 0.45L) μ in	P&W Lab Master Universal Gage Blocks Grade 1	MCL CWI-0046	F1, F3	F
Dimensional	Cylindrical Ring Gages	4 in to 9.5 in	(19 + 1.3L) μ in	P&W Lab Master Universal Gage Blocks Grade 1	MCL CWI-0046	F1, F3	F
Dimensional	Cylindrical Ring Gages	0.04 in to 19 in	(21 + 0.96L) μ in	Joint Instruments DMS-680 Gage Blocks Grade 1	MCL CWI-0046	F1, F3	F
Dimensional	Thread Wires	80 TPI to 5 TPI	(22 + 39L) μ in	Joint Instruments DMS-680 GB and Cylindrical Rolls	MCL CWI-0085	F1, F3	F
Dimensional	Thread Plug Gages	0.06 in to 4 in	(90 + 17L) μ in	Joint Instruments DMS-680 GB and Thread Wires	MCL CWI-0300	F1, F3	F
Dimensional	Micrometers	0.01 in to 4 in	(31 + 0.78L) μ in	Gage Blocks	MCL CWI-0227	F1, F3	F, O
Dimensional	Micrometers	4 in to 20 in	(47 + 2.9L) μ in	Gage Blocks	MCL CWI-0227	F1, F3	F, O
Dimensional	Dial Indicator	0.000 05 in to 2 in (Res.= 0.000 05 in)	(31 + 0.37L) μ in	Gage Blocks	MCL CWI-0171	F1, F3	F, O
Dimensional	Dial Indicator	0.000 1 in to 4 in (Res= 0.000 1 in)	(61 + 0.38L) μ in	Gage Blocks	MCL CWI-0171	F1, F3	F, O



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Dimensional	Dial Indicator	0.000 5 in to 4 in (Res = 0.000 5 in)	(310 + 0.091L) μ in	Gage Blocks	MCL CWI-0171	F1, F3	F, O
Dimensional	Dial Indicator	0.001 in to 4 in (Res = 0.001 in)	(610 + 0.045L) μ in	Gage Blocks	MCL CWI-0171	F1, F3	F, O
Dimensional	Height Gages	0.01 in to 36 in (Res = 0.000 1)	(66 + 2.5L) μ in	Gage Blocks Surface Plate	MCL CWI-0160	F1, F3	F, O
Dimensional	Height Gages	0.01 in to 40 in (Res = 0.001)	(610 + 0.24L) μ in	Gage Blocks Surface Plate	MCL CWI-0160	F1, F3	F, O
Dimensional	Height Gages	0.01 in to 24 in (Res = 0.000 5)	(440 + 0.51L) μ in	Gage Blocks Surface Plate	MCL CWI-0160	F1, F3	F, O
Dimensional	Calipers	0.01 in to 60 in (Res = 0.000 5)	(310 + 0.7L) μ in	Gage Blocks	MCL CWI-0060	F1, F3	F, O
Dimensional	Calipers	0.01 in to 72 in (Res = 0.001)	(610 + 0.36L) μ in	Gage Blocks	MCL CWI-0060	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	8 in to 461 in (Diagonal)	(56 μ in + 0.6D) μ in	Auto Collimator	MCL CWI-0342	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	8 in to 461 in (Diagonal)	52 μ in	Repeat-o-meter w/indicator	MCL CWI-0342	F1, F3	F, O
Mechanical	Torque Wrench/Driver	5 lbf•in to 50 lbf•in	1.1 % of Reading	AMETEK Torque Tester	MCL CWI-0315	F1, F3	F, O
Mechanical	Torque Wrench/Driver	300 lbf•in to 3 000 lbf•in	0.27 % of Reading	Advanced Torque Products Torque Tester	MCL CWI-0315	F1, F3	F, O
Mechanical	Torque Wrench/Driver	25 lbf•ft to 250 lbf•ft	0.37 % of Reading	Advanced Torque Products Torque Tester	MCL CWI-0315	F1, F3	F, O
Mechanical	Pressure Gages	10 psi to 100 psi	0.09 % of Reading	Ashcroft Master Pressure Gauge	MCL CWI-0231	F1, F3	F, O
Mechanical	Pressure Gages	100 psi to 3 000 psi	0.07 % of Reading	3D Instruments Master Pressure Gauge	MCL CWI-0231	F1, F3	F, O
Mechanical	Pressure Gages	1 psi to -14 psi	3 % of Reading	Master Vacuum Gauge	MCL CWI-0231	F1, F3	F, O



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Mass, Force, and Weighing Devices	Bench/ Floor Scale	Up to 300 lb	0.71 lb	Master Weights - Class F	MCL CWI-0246	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression & Tension)	0.001 lbf to 50 lbf	0.2 % of Reading	Master Weights - Class F	MCL-CWI-0340	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression & Tension)	50 lbf to 2 250 lbf	0.2 % of Reading	Master Digital Load Cells	MCL-CWI-0340	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression & Tension)	400 lbf to 20 000 lbf	0.2 % of Reading	Master Digital Load Cells	MCL-CWI-0340	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression)	1 000 lbf to 60 000 lbf	0.2 % of Reading	Master Digital Load Cells	MCL-CWI-0340	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression)	6 202 lbf to 60 000 lbf	0.2 % of Reading	Master Digital Load Cells	MCL-CWI-0340	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Compression)	60 201 lbf to 500 000 lbf	0.4 % of Reading	Master Digital Load Cells	MCL-CWI-0340	F1, F3	F, O



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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location

Code

- | | |
|---|--|
| F | Conformity assessment activity is performed at the CABs fixed facility |
| O | Conformity assessment activity is performed onsite at the CABs customer location |

Location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.