PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Micron Inspection & Calibration Services, Inc.

2870 Haymeadow Drive, York, PA 17406

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 Testing

(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:

Tracy Szerszen
President

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
June 12, 2025	January 23, 2026	January 31, 2028

Accreditation No.:	*Certificate No.:*
104570	L26-57

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.pjlabs.com

Certificate of Accreditation: Supplement

Micron Inspection & Calibration Services, Inc.

2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-266-5775

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

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Piece Parts, First Articles, Fixture Gages	Length, Angle, Geometry	SOP: Inspection Based on ASME Y14.5	CMM	F1, F4	F
Dimensional	Piece Parts, First Articles, Fixture Gages	Length, Angle, Geometry	SOP: Inspection Based on ASME Y14.5	Vision system	F1, F4	F

1. Location of activity:

Location	Location
F	Conformity assessment activity is performed at the CABs fixed facility

2. Flex Code:
   F0- Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification.
   F1- Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
   F2- Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
   F3- Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
   F4- Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
   F5- Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope

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ISO/IEC 17025:2017

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

Dimensional, Electrical, Mass, Force, and Weighing Devices, Mechanical, and Thermodynamic 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.

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Dimensional	Gage Blocks	Up to 4 in	(3 + 1.9*L*) µin	Master Gage Blocks	Internal Procedure: GB	F
Dimensional	Gage Blocks	5 in to 20 in	(1.3 + 2.6*L*) µin	Gage Blocks,	Internal Procedure: GB	F
Dimensional	Calipers	Up to 36 in	(580 + 2.5*L*) µin	Gage Blocks, Ring Gauge	Internal Procedure: CALIPERS	F, O
Dimensional	Micrometers	Up to 24 in	(86 + 3.3*L*) µin	Gage Blocks,	Internal Procedure: OD MIC	F, O
Dimensional	Height Gage	Up to 24 in	(30 + 1.9*L*) µin	Master Gage Blocks, Surface Plate	Internal Procedure: HEIGHT GAGE	F, O
Dimensional	Length Indicators (Digital, Dial, Test, LVDTs)	Up to 0.01 in	11 µin	Universal Measuring Machine (UMM), Gauge Blocks, Indicator Calibrator	Internal Procedure: INDICATOR, LVDT 0-1	F, O
Dimensional	Length Indicators (Digital, Dial, Test, LVDTs)	Up to 1 in	37 µin	Universal Measuring Machine (UMM), Gauge Blocks, Indicator Calibrator	Internal Procedure: INDICATOR, LVDT 0-1	F, O
Dimensional	Cylindrical Gages (Plain Rings)	Up to 6 in	(9 + 1*L*) µin	Universal Measuring Machine (UMM), Cylindrical Rings	Internal Procedure: ID DIA	F
Dimensional	Cylindrical Gages (Plain Rings)	6 in to 12 in	(22 + 1.7*L*) µin	Universal Measuring Machine (UMM), Cylindrical Rings	Internal Procedure: ID DIA	F
Dimensional	Cylindrical Gages (Plain Plugs and Pins)	Up to 12 in	(2.6 + 0.9*L*) µin	Universal Measuring Machine (UMM)	Internal Procedure: OD DIA	F, O
Dimensional	Thread Plugs (Simple Pitch Diameter)	Up to 6 in	(63 + 0.8*L*) µin	Universal measuring machine (UMM) and thread wires	Internal Procedure: ST THRD PLG	F

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Dimensional	Thread Plugs (Major Diameter)	Up to 6 in	(11 + 1.8*L*) µin	Universal Measuring Machine	Internal Procedure: ST THRD PLG	F
Dimensional	Thread Rings (Solid Rings) (Simple Pitch Diameter)	Up to 2 in	(79 + 28*L*) µin	Universal Measuring Machine (UMM) and Thread Balls	Internal Procedure: ST THRD RNG	F
Dimensional	Thread Rings (Solid Rings) (Minor Diameter)	Up to 2 in	(80 + 3.4*L*) µin	Universal Measuring Machine (UMM) and Thread Balls	Internal Procedure: ST THRD RNG	F
Dimensional	Thread Rings (Adjustable) (Simple Pitch Diameter)	Up to 2 in	Class X Tolerance	Thread Setting Plug Vision System Class X Tolerance	Internal Procedure: ST THRD RNG	F
Dimensional	Thread Rings (Adjustable) (Minor Diameter)	Up to 2 in	(80 + 3.4*L*) µin	Thread Setting Plug Vision System Class X Tolerance	Internal Procedure: ST THRD RNG	F
Dimensional	Optical Comparator (Linearity)	Up to 12 in	(127 + 7.1*L*) µin	Glass Scale Standard	Internal Procedure: OPT COMP	F, O
Dimensional	Length Standard	Up to 40 in	(21 + 1.9*L*) µin	P&W 1000A ULM, Gauge Blocks Length Measuring System	Internal Procedure: LENGTH	F
Dimensional	Surface Finish Analyzer (Ra)	16.1 µin to 119.5 µin	4 µin	Surface Finish Standards	Internal Procedure: SURFACE ANALYZER	F, O
Dimensional	Surface Finish Patch (Ra)	16.1 µin to 119.5 µin	6 µin	Mitutoyo Surface Finish Tester	Internal Procedure: SURFACE FINISH STD	F, O
Dimensional	Dial Indicator Calibrator	Up to 1 in	39 µin	Gage Block and Electronic Amplifier	Internal Procedure: INDCALIBRATOR	F
Dimensional	Thread Wires	Up to 0.5 in	8 µin	Universal Measuring Machine (UMM), Gage Blocks	Internal Procedure: THRD WIRE	F

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Dimensional	Universal Measuring Machines (UMMs)	Up to 40 in	(6 + 8*L*) µin	Gage Blocks, Master Plug Gages, Force Gage	Internal Procedure: UMM	F
Dimensional	Optical Scales (Reticles, Optical Micrometer Scales, Optical Grids)	Up to 12 in	(67 + 8.6*L*) µin	OGP Vision systems, Glass Scales/Grids	Internal Procedure: OPTICAL SCALES	F
Electrical	Equipment to Generate DC Voltage	Up to 330 mV	15 µV/V + 1 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate DC Voltage	0.33 V to 3.3 V	8.8 µV/V + 2 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate DC Voltage	3.3 V to 33 V	9.4 µV/V + 20 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate DC Voltage	33 V to 330 V	14 µV/V + 150 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate DC Voltage	330 V to 1020 V	14 µV/V + 1500 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate DC Current	Up to 330 µA	81 µA/A + 0.016 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate DC Current	0.33 A to 3.3 mA	58 µA/A + 0.039 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate DC Current	3.3 A to 33 mA	61 µA/A + 0.19 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate DC Current	33 A to 330 mA	61 µA/A + 1.9 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate DC Current	0.33 A to 3 A	230 µA/A + 31 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate DC Current	3 A to 20.5 A	620 µA/A + 580 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Electrical	Equipment to Measure DC Voltage	Up to 200 mV	6.1 µV/V + 0.13 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Voltage	0.2 V to 2 V	3.5 µV/V + 0.82 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Voltage	2 V to 20 V	3.5 µV/V + 7.5 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Voltage	20 V to 200 V	5.3 µV/V + 69 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Voltage	200 V to 1000 V	5.6 µV/V + 0.67 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	Up to 200 µA	12 µA/A + 0.55 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	0.2 mA to 2 mA	13 µA/A + 4.3 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	2 mA to 20 mA	13 µA/A + 45 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	20 mA to 200 mA	40 µA/A + 1.4 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	0.2 A to 2 A	170 µA/A + 19 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure DC Current	2 A to 20 A	360 µA/A + 0.63 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Generate Resistance	Up to 11 Ω	73 µOhm/Ohm + 0.001 Ohm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	11 Ω to 33 Ω	30 µOhm/Ohm + 0.0015 Ohm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	33 Ω to 110 Ω	24 µOhm/Ohm + 0.0014 Ohm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate Resistance	110 Ω to 330 Ω	27 µOhm/Ohm + 0.002 Ohm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	0.33 kΩ to 1.1 kΩ	22 µOhm/Ohm + 0.000 002 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	1.1 kΩ to 3.3 kΩ	0.0027 µOhm/Ohm + 0.000 02 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	3.3 kΩ to 11 kΩ	22 µOhm/Ohm + 0.000 02 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	11 kΩ to 33 kΩ	27 µOhm/Ohm + 0.0002 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	33 kΩ to 110 kΩ	22 µOhm/Ohm + 0.0002 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	110 kΩ to 330 kΩ	30 µOhm/Ohm + 0.002 kOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	0.33 MΩ to 1.1 MΩ	26 µOhm/Ohm + 0.000 002 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	1.1 MΩ to 3.3 MΩ	63 µOhm/Ohm + 0.000 03 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	3.3 MΩ to 11 MΩ	110 µOhm/Ohm + 0.000 05 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	11 MΩ to 33 MΩ	280 µOhm/Ohm + 0.0025 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	33 MΩ to 110 MΩ	0.047 µOhm/Ohm + 0.003 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	110 MΩ to 330 MΩ	0.24 % + 0.1 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Resistance	0.33 GΩ to 1.1 GΩ	1.1 % + 0.5 MOhm	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Measure Resistance	Up to 2 Ω	16 μΩ/Ω + 5.2 μΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	2 Ω to 20 Ω	9 μΩ/Ω + 21 μΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	20 Ω to 200 Ω	7.6 μΩ/Ω + 70 μΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	0.2 kΩ to 2 kΩ	7.9 μΩ/Ω + 0.65 mΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	2 kΩ to 20 kΩ	7.2 μΩ/Ω + 14 mΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	20 kΩ to 200 kΩ	8.2 μΩ/Ω + 57 mΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	0.2 MΩ to 2 MΩ	13 μΩ/Ω + 1.6 Ω	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	2 MΩ to 20 MΩ	22 μΩ/Ω + 0.10 kΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	20 MΩ to 200 MΩ	150 μΩ/Ω + 9.8 kΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure Resistance	0.2 GΩ to 2 GΩ	0.14 % + 0.95 MΩ	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 10 Hz)	Up to 199 mV	130 μV/V + 16 μV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	Up to 199 mV	130 μV/V + 5 μV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 100 Hz)	Up to 199 mV	110 μV/V + 5 μV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 kHz to 2 kHz)	Up to 199 mV	110 μV/V + 2.4 μV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz)	Up to 199 mV	130 µV/V + 5 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage(@ 10 kHz to 30 kHz)	Up to 199 mV	420 µV/V + 10 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz)	Up to 199 mV	670 µV/V + 24 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 10 Hz)	199 mV to 1.99 V	120 µV/V + 0.14 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	199 mV to 1.99 V	100 µV/V + 24 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 100 Hz)	199 mV to 1.99 V	84 µV/V + 24 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 kHz to 2 kHz)	199 mV to 1.99 V	75 µV/V + 24 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz)	199 mV to 1.99 V	120 µV/V + 24 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz)	199 mV to 1.99 V	390 µV/V + 50 µV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz)	199 mV to 1.99 V	540 µV/V + 0.24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 MHz to 1 MHz	199 mV to 1.99 V	0.24 % + 24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 10 Hz)	2 V to 19.9 V	120 µV/V + 1.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	2 V to 19.9 V	110 µV/V + 0.24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 100 Hz)	2 V to 19.9 V	84 µV/V + 0.24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 kHz to 2 kHz)	2 V to 19.9 V	76 µV/V + 0.24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz)	2 V to 19.9 V	130 µV/V + 0.24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz)	2 V to 19.9 V	210 µV/V + 0.50 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz)	2 V to 19.9 V	460 µV/V + 2.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 MHz to 1 MHz	2 V to 19.9 V	0.82 % + 0.24 V	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 10 Hz)	20 V to 199 V	120 µV/V + 14 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	20 V to 199 V	110 µV/V + 2.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 100 Hz)	20 V to 199 V	91 µV/V + 2.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.1 kHz to 2 kHz)	20 V to 199 V	78 µV/V + 2.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Micron Inspection & Calibration Services, Inc.

2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-266-5775

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz)	20 V to 199 V	120 µV/V + 2.4 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz)	20 V to 199 V	200 µV/V + 5.0 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz)	20 V to 199 V	480 µV/V + 24 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 10 Hz)	200 V to 1000 V	57 µV/V + 0.16 V	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	200 V to 1000 V	91 µV/V + 50 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 0.04 kHz to 10 kHz)	200 V to 1000 V	93 µV/V + 50 mV	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz)	200 V to 1000 V	150 µV/V + 0.1 V	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz)	200 V to 1000 V	240 µV/V + 0.5 V	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	Up to 200 µA	260 µA/A + 24 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 10 kHz)	Up to 200 µA	240 µA/A + 24 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	Up to 200 µA	430 µA/A + 24 nA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	200 µA to 2 mA	270 µA/A + 0.24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 10 kHz)	200 µA to 2 mA	240 µA/A + 0.24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	200 µA to 2 mA	340 µA/A + 0.24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	2 mA to 20 mA	280 µA/A + 2.4 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 10 kHz)	2 mA to 20 mA	250 µA/A + 2.4 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	2 mA to 20 mA	240 µA/A + 2.4 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	20 mA to 200 mA	280 µA/A + 24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 10 kHz)	20 mA to 200 mA	230 µA/A + 24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	20 mA to 200 mA	240 µA/A + 24 µA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	200 mA to 2 A	530 µA/A + 0.24 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 10 kHz)	200 mA to 2 A	520 µA/A + 0.24 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	200 mA to 2 A	670 µA/A + 0.24 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 0.01 kHz to 2 kHz)	2 A to 20 A	690 µA/A + 2.4 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz)	2 A to 20 A	0.21 % + 2.4 mA	Fluke 8508A	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 Hz to 20 Hz)	29 µA to 330 µA	0.15 % + 0.1 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 20 Hz to 45 Hz)	29 µA to 330 µA	0.11 % + 0.1 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.045 kHz to 1 kHz)	29 µA to 330 µA	0.091 % + 0.1 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	29 µA to 330 µA	0.22 % + 0.15 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 5 kHz to 10 kHz)	29 µA to 330 µA	0.61 % + 0.2 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 kHz to 30 kHz)	29 µA to 330 µA	1.2 % + 0.4 µA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 Hz to 20 Hz)	330 µA to 3.3 mA	0.15 % + 0.000 15 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Current (@ 20 Hz to 45 Hz)	330 µA to 3.3 mA	0.096 % + 0.000 15 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.045 kHz to 1 kHz)	330 µA to 3.3 mA	0.078 % + 0.000 15 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	330 µA to 3.3 mA	0.16 % + 0.0002 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 5 kHz to 10 kHz)	330 µA to 3.3 mA	0.39 % + 0.0003 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 kHz to 30 kHz)	330 µA to 3.3 mA	0.77 % + 0.0006 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	0.14 % + 0.002 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	0.07 % + 0.002 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.045 kHz to 1 kHz)	3.3 mA to 33 mA	0.03 % + 0.002 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	0.061 % + 0.002 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	0.15 % + 0.003 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 33 mA	0.32 % + 0.004 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.14 % + 0.02 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.07 % + 0.02 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.045 kHz to 1 kHz)	33 mA to 330 mA	0.03 % + 0.02 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.058 % + 0.05 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 5 kHz to 10 kHz)	33 mA to 330 mA	0.15 % + 0.1 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 kHz to 30 kHz)	33 mA to 330 mA	0.3 % + 0.2 mA	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 10 Hz to 45 Hz)	330 mA to 3 A	0.14 % + 0.0001 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.045 kHz to 1 kHz)	330 mA to 3 A	0.047 % + 0.0001 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	330 mA to 3 A	0.47 % + 0.001 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Current (@ 5 kHz to 10 kHz)	330 mA to 3 A	1.9 % + 0.005 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 45 Hz to 100 Hz)	3 A to 20.5 A	0.09 % + 0.005 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 0.1 kHz to 1 kHz)	3 A to 20.5 A	0.11 % + 0.005 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Current (@ 1 kHz to 5 kHz)	3 A to 20.5 A	2.3 % + 0.005 A	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz)	Up to 33 mV	400 µV/V + 6 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 10 kHz)	Up to 33 mV	23 µV/V + 6 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 20 kHz)	Up to 33 mV	53 µV/V + 6 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	Up to 33 mV	530 µV/V + 6 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	Up to 33 mV	0.2 % + 0.012 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 100 kHz to 500 kHz)	Up to 33 mV	0.43 % + 0.05 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	230 µV/V + 8 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 10 kHz)	33 mV to 330 mV	110 µV/V + 8 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	130 µV/V + 8 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	270 µV/V + 8 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	590 µV/V + 32 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.15 % + 0.07 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz)	330 mV to 3.3 V	230 µV/V + 50 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 10 kHz)	330 mV to 3.3 V	110 µV/V + 60 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 20 kHz)	330 mV to 3.3 V	140 µV/V + 60 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	330 mV to 3.3 V	230 µV/V + 50 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	330 mV to 3.3 V	530 µV/V + 130 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 100 kHz to 500 kHz)	330 mV to 3.3 V	0.18 % + 0.0006 V	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	230 µV/V + 650 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 10 kHz)	3.3 V to 33 V	110 µV/V + 600 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	180 µV/V + 600 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	270 µV/V + 600 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	680 µV/V + 1600 µV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz)	33 V to 330 V	150 µV/V + 2 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 10 kHz)	33 V to 330 V	150 µV/V + 6 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	190 µV/V + 6 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	230 µV/V + 6 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	0.15 % + 0.05 V	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 10 Hz to 45 Hz	330 V to 1020 V	230 µV/V + 10 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 0.045 kHz to 1 kHz)	330 V to 1020 V	190 µV/V + 10 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1020 V	190 µV/V + 10 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1020 V	230 µV/V + 10 mV	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 10 kHz)	0.35 nF	0.4 % + 7.8 pF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 10 kHz)	1.1 nF	0.3 % + 0.01 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 3 kHz)	3.3 nF	0.43 % + 0.01 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 1 kHz)	11 nF	0.21 % + 0.01 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 1 kHz)	33 nF	0.13 % + 0.1 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 1 kHz)	109 nF	0.18 % + 0.1 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 1 kHz)	300 nF	0.18 % + 0.3 nF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O

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Electrical	Equipment to Generate Capacitance (@ 10 Hz to 600 Hz)	1.09 µF	0.18 % + 0.001 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 300 Hz)	3 µF	0.18 % + 0.003 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 150 Hz)	10.9 µF	0.18 % + 0.01 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 120 Hz)	30 µF	0.3 % + 0.03 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ 10 Hz to 80 Hz)	109 µF	0.36 % + 0.1 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 50 Hz)	300 µF	0.33 % + 0.3 uF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 20 Hz)	1.09 mF	0.35 % + 0.001 mF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 6 Hz)	3 mF	0.33 % + 0.003 mF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 2 Hz)	10.9 mF	0.35 % + 0.01 mF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 0.6 Hz)	30 mF	0.57 % + 0.03 mF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Equipment to Generate Capacitance (@ Up to 0.2 Hz)	109 mF	0.82 % + 0.1 mF	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F, O
Electrical	Electrical Simulation of Thermocouples – Generate (Type E)	-250 °C to -100 °C	0.42 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type E)	-100 °C to -25 °C	0.21 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Micron Inspection & Calibration Services, Inc.
2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-266-5775

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Electrical	Electrical Simulation of Thermocouples – Generate (Type E)	-25 °C to 350 °C	0.2 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type E)	350 °C to 650 °C	0.21 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type E)	650 °C to 1000 °C	0.23 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type J)	-210 °C to -100 °C	0.26 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type J)	-100 °C to -30 °C	0.19 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type J)	-30 °C to 150 °C	0.18 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type J)	150 °C to 760 °C	0.19 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type J)	760 °C to 1200 °C	0.23 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type K)	-200 °C to -100 °C	0.29 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type K)	-100 °C to -25 °C	0.2 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Electrical	Electrical Simulation of Thermocouples – Generate (Type K)	-25 °C to 120 °C	0.19 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type K)	120 °C to 1000 °C	0.24 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type K)	1000 °C to 1372 °C	0.34 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type R)	0 °C to 250 °C	0.47 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type R)	250 °C to 400 °C	0.32 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type R)	400 °C to 1000 °C	0.31 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type R)	1000 °C to 1767 °C	0.35 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type S)	0 °C to 250 °C	0.40 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type S)	250 °C to 400 °C	0.33 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type S)	400 °C to 1400 °C	0.33 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F

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Electrical	Electrical Simulation of Thermocouples – Generate (Type S)	1400 °C to 1767 °C	0.39 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type T)	-250 °C to -150 °C	0.51 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type T)	-150 °C to 0 °C	0.23 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type T)	0 °C to 120 °C	0.19 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type T)	120 °C to 400 °C	0.18 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type U)	-200 °C to 0 °C	0.46 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Electrical	Electrical Simulation of Thermocouples – Generate (Type U)	0 °C to 600 °C	0.25 °C	Fluke 5522	OEM Manual and Internal Procedure :ELECTRICAL, DMM	F
Mass, Force, and Weighing Devices	Scales and Balances	Up to 300 lb	0.04 lb	NIST Class F Weights	Internal Procedure: SCALE	F, O
Mass, Force, and Weighing Devices	Scales and Balances	1 g to 10 g	0.21 mg	ASTM Class 1 Weights	Internal Procedure: SCALE	F, O
Mass, Force, and Weighing Devices	Scales and Balances	10 g to 50 g	0.21 mg	ASTM Class 1 Weights	Internal Procedure: SCALE	F, O
Mass, Force, and Weighing Devices	Scales and Balances	50 g to 200 g	0.052 mg + 0.011 mg/g	ASTM Class 1 Weights	Internal Procedure: SCALE	F, O

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Mass, Force, and Weighing Devices	Scales and Balances	200 g to 1000 g	0.012 mg + 0.06 mg/g	ASTM Class 1 Weights	Internal Procedure: SCALE	F, O
Mechanical	Absolute Pressure Measuring Devices (Gas)	1.5 psia to 7 psia	0.003 psia	Fluke PM600-A200K Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	7 psia to 15 psia	0.003 psia	Fluke PM600-A200K Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	15 psia to 30 psia	0.004 psia	Fluke PM600-A200K Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	5 psia to 100 psia	0.01 psia	Fluke PM600-A1.4M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	100 psia to 200 psia	0.03 psia	Fluke PM600-A1.4M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	14.5 psia to 50 psia	0.01 psia	Fluke PM600-A7M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	50 psia to 250 psia	0.03 psia	Fluke PM600-A7M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	250 psia to 500 psia	0.05 psia	Fluke PM600-A7M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Absolute Pressure Measuring Devices (Gas)	500 psia to 1 000 psia	0.11 psia	Fluke PM600-A7M Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	10 psi to 2 000 psi	(0.39 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F, O
Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	2 000 psi to 4 000 psi	(0.77 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F, O
Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	4 000 psi to 6 000 psi	(1.2 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F, O
Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	6 000 psi to 8 000 psi	(1.6 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F, O

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Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	8000 psi to 10 000 psi	(2 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F, O
Mechanical	Pressure Measuring Devices and Gauges (Gas Gauge)	-13 psi to 10 psi	(0.12 psi + 0.6R)	Additel ADT761-M Pressure Calibrator	Internal Procedure: PRESSURE, PRESS VAC	F
Mechanical	Pressure Measuring Devices and Gauges (Gas Gauge)	10 psi to 36 psi	(0.15 psi + 0.6R)	Additel ADT761-M Pressure Calibrator	Internal Procedure: PRESSURE	F
Mechanical	Pressure Measuring Devices and Gauges (Gas Gauge)	36 psi to 360 psi	(0.16 psi + 0.6R)	Additel ADT761-M Pressure Calibrator	Internal Procedure: PRESSURE	F
Mechanical	Torque Transducers	5 ozf•in to 200 ozf•in	(0.09 % IV + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F
Mechanical	Torque Transducers	5 lbf•in to 400 lbf•in	(0.1 % IV + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F
Mechanical	Torque Transducers	40 lbf•in to 1 000 lbf•in	(0.13 % IV + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F
Mechanical	Torque Transducers	25 lbf•ft to 600 lbf•ft	(0.14 % IV + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F
Mechanical	Torque Transducers	60 lbf•ft to 2 000 lbf•ft	(0.09 % IV + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F
Mechanical	Torque Gages	5 ozf•in to 50 ozf•in	(0.78 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	50 ozf•in to 200 ozf•in	(0.42 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	30 lbf•in to 400 lbf•in	(0.54 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O

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Mechanical	Torque Gages	400 lbf•in to 1 000 lbf•in	(0.61 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	30 lbf•ft to 50 lbf•ft	(0.43 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	50 lbf•ft to 250 lbf•ft	(0.36 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	250 lbf•ft to 600 lbf•ft	(0.48 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Mechanical	Torque Gages	100 lbf•ft to 1 000 lbf•ft	(0.43 % IV + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F, O
Thermodynamic	Temperature Measuring Equipment (Digital and Mechanical)	-45 °C to 500 °C	0.12 °C	Fluke 2560 readout, Fluke 5628 PRT Probe, Liquid Bath, Dry Well	Internal Procedure: TEMP	F, O
Thermodynamic	Chambers, Ovens, Freezers (Temperature)	0 °C to 20 °C	0.3 °C	Vaisala M170 Temperature Probe with Readout	Internal Procedure: TEMPHUMID	F, O
Thermodynamic	Relative Humidity Measuring Devices	25 % RH to 75 % RH	(1 % RH + 0.6R)	Vaisala HMP75 Humidity Probe with Readout and Humidity Chamber	Internal Procedure: TEMPHUMID	F, O
Thermodynamic	Humidity Chambers (Relative Humidity)	25 % RH to 75 % RH	(1.6 % RH + 0.6R)	Vaisala HMP75 Humidity Probe with Readout	Internal Procedure: TEMPHUMID	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	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer 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.