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 wCith the recognized International Standard:

ISO/IEC 17025:2017

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

Dimensional, Electrical, Fluid Quantities, Mass, Force, and Weighing Devices, Mechanical, and Thermodynamic, and Time and Frequency 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:

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
Revision Date:	*Accreditation No.:*	*Certificate No.:*
April 20, 2026	104570	L26-56-R1

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: 717-545-0751

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 (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Gage Blocks	Up to 4 in	(3 + 1.9*L*) µin	Master Gage Blocks	Internal Procedure: GB	F1, F3	F
Dimensional	Gage Blocks	5 in to 20 in	(1.3 + 2.6*L*) µin	Gage Blocks,	Internal Procedure: GB	F1, F3	F
Dimensional	Calipers	Up to 36 in	(580 + 2.5*L*) µin	Gage Blocks, Ring Gauge	Internal Procedure: CALIPERS	F1, F3	F, O
Dimensional	Micrometers	Up to 24 in	(86 + 3.3*L*) µin	Gage Blocks,	Internal Procedure: OD MIC	F1, F3	F, O
Dimensional	Height Gage	Up to 24 in	(30 + 1.9*L*) µin	Master Gage Blocks, Surface Plate	Internal Procedure: HEIGHT GAGE	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	F
Dimensional	Optical Comparator (Linearity)	Up to 12 in	(127 + 7.1*L*) µin	Glass Scale Standard	Internal Procedure: OPT COMP	F1, F3	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	F1, F3	F
Dimensional	Surface Finish Analyzer (Ra)	16.1 µin to 119.5 µin	4 µin	Surface Finish Standards	Internal Procedure: SURFACE ANALYZER	F1, F3	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	F1, F3	F, O
Dimensional	Dial Indicator Calibrator	Up to 1 in	39 µin	Gage Block and Electronic Amplifier	Internal Procedure: INDCALIBRATOR	F1, F3	F
Dimensional	Thread Wires	Up to 0.5 in	8 µin	Universal Measuring Machine (UMM), Gage Blocks	Internal Procedure: THRD WIRE	F1, F3	F
Dimensional	Universal Measuring Machines (UMMs)	Up to 40 in	(6 + 8*L*) µin	Gage Blocks, Master Plug Gages, Force Gage	Internal Procedure: UMM	F1, F3	F

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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	F1, F3	F
Electrical	Equipment to Measure DC Voltage	Up to 330 mV	15 µV/V + 1 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.3 V	8.8 µV/V + 2 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	9.4 µV/V + 20 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	14 µV/V + 150 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1020 V	14 µV/V + 1500 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output DC Voltage	10 kV to 20 kV	2.3 % of reading	Fluke 80K-40 w/ HP 3458A	QI-114	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	20 kV to 35 kV	1.5 % of reading	Fluke 80K-40 w/ HP 3458A	QI-114	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	35 kV to 40 kV	2.3 % of reading	Fluke 80K-40 w/ HP 3458A	QI-114	F1, F3	F, O
Electrical	Equipment to Output DC Voltage (above 1 kV)	1 kV to 10 kV	0.000 4 V	Vitrek 4700 Precision HV Meter	QI-155	F1, F3	F
Electrical	Equipment to Measure DC Current	Up to 330 µA	81 µA/A + 0.016 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Measure DC Current	0.33 A to 3.3 mA	58 µA/A + 0.039 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Measure DC Current	3.3 A to 33 mA	61 µA/A + 0.19 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Measure DC Current	33 A to 330 mA	61 µA/A + 1.9 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Measure DC Current	0.33 A to 3 A	230 µA/A + 31 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Measure DC Current	3 A to 20.5 A	620 µA/A + 580 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	1 A to 600 A	0.34 % of reading	HP 3458A (With shunt above 1 Amp)	QI-114	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	Up to 200 mV	6.1 µV/V + 0.13 µV	Fluke 8508A HP 3458A Option 002	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Voltage	0.2 V to 2 V	3.5 µV/V + 0.82 µV	Fluke 8508A HP 3458A Option 002	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Voltage	2 V to 20 V	3.5 µV/V + 7.5 µV	Fluke 8508A HP 3458A Option 002	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Voltage	20 V to 200 V	5.3 µV/V + 69 µV	Fluke 8508A HP 3458A Option 002	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Output DC Voltage	200 V to 1000 V	5.6 µV/V + 0.67 mV	Fluke 8508A HP 3458A Option 002	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	Up to 200 µA	12 µA/A + 0.55 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	0.2 mA to 2 mA	13 µA/A + 4.3 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	2 mA to 20 mA	13 µA/A + 45 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	20 mA to 200 mA	40 µA/A + 1.4 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	0.2 A to 2 A	170 µA/A + 19 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output DC Current	2 A to 20 A	360 µA/A + 0.63 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Measure DC Current (Clamp-On)	5 A to 600 A	0.33 % of reading + 0.06 A	Fluke 5520A w/ 50-Turn Coil	QI-114	F1, F3	F, O
Electrical	Equipment to Measure DC Current	Up to 2 nA	0.012 nA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	2 nA to 20 nA	0.039 nA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	20 nA to200 nA	0.53 nA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F

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Electrical	Equipment to Measure DC Current	0.2 µA 2 µA	0.003 6 µA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	2 µA to 20 µA	0.013 µA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	20 µA to 200 µA	0.18 µA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	0.2 mA to 2 mA	0.002 3 mA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	2 mA to 20 mA	0.023 mA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure DC Current	20 mA to 100 mA	0.17 mA	Keithley 6220 Precision Current Source	QI-114	F1, F3	F
Electrical	Equipment to Measure Resistance	Up to 11 Ω	73 µΩ/Ω + 0.001 Ω	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 33 Ω	30 µΩ/Ω + 0.0015 Ω	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 Ω to 110 Ω	24 µΩ/Ω + 0.0014 Ω	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure Resistance	110 Ω to 330 Ω	27 µΩ/Ω + 0.002 Ω	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	0.33 kΩ to 1.1 kΩ	22 µΩ/Ω + 0.000 002 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 kΩ to 3.3 kΩ	0.0027 µΩ/Ω + 0.000 02 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 kΩ to 11 kΩ	22 µΩ/Ω + 0.000 02 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 kΩ to 33 kΩ	27 µΩ/Ω + 0.0002 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 kΩ to 110 kΩ	22 µΩ/Ω + 0.0002 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure Resistance	110 kΩ to 330 kΩ	30 µΩ/Ω + 0.002 kΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	0.33 MΩ to 1.1 MΩ	26 µΩ/Ω + 0.000 002 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 MΩ to 3.3 MΩ	63 µΩ/Ω + 0.000 03 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 MΩ to 11 MΩ	110 µΩ/Ω + 0.000 05 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	11 MΩ to 33 MΩ	280 µΩ/Ω + 0.0025 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	33 MΩ to 110 MΩ	0.047 µΩ/Ω + 0.003 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	0.24 % of Reading + 0.1 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Resistance	0.33 GΩ to 1.1 GΩ	1.1 % of Reading + 0.5 MΩ	Fluke 5522 Fluke 5520A (Applies to 4-wire compensation only 2-wire above 100 kΩ)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	Up to 2 Ω	16 µΩ/Ω + 5.2 µΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	2 Ω to 20 Ω	9 µΩ/Ω + 21 µΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	20 Ω to 200 Ω	7.6 µΩ/Ω + 70 µΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	0.2 kΩ to 2 kΩ	7.9 µΩ/Ω + 0.65 mΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	2 kΩ to 20 kΩ	7.2 µΩ/Ω + 14 mΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	20 kΩ to 200 kΩ	8.2 µΩ/Ω + 57 mΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Output Resistance	0.2 MΩ to 2 MΩ	13 μΩ/Ω + 1.6 Ω	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	2 MΩ to 20 MΩ	22 μΩ/Ω + 0.10 kΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	20 MΩ to 200 MΩ	150 μΩ/Ω + 9.8 kΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output Resistance	0.2 GΩ to 2 GΩ	0.14 % of Reading + 0.95 MΩ	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	Up to 199 mV	130 μV/V + 16 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	Up to 199 mV	130 μV/V + 5 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	Up to 199 mV	110 μV/V + 5 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 kHz to 2 kHz)	Up to 199 mV	110 μV/V + 2.4 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	Up to 199 mV	130 μV/V + 5 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	Up to 199 mV	420 μV/V + 10 μV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Micron Inspection & Calibration Services, Inc.
2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-545-0751

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Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	Up to 199 mV	670 µV/V + 24 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	199 mV to 1.99 V	120 µV/V + 0.14 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	199 mV to 1.99 V	100 µV/V + 24 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	199 mV to 1.99 V	84 µV/V + 24 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 kHz to 2 kHz)	199 mV to 1.99 V	75 µV/V + 24 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	199 mV to 1.99 V	120 µV/V + 24 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	199 mV to 1.99 V	390 µV/V + 50 µV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	199 mV to 1.99 V	540 µV/V + 0.24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 MHz to 1 MHz)	199 mV to 1.99 V	0.24 % of Reading + 24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	2 V to 19.9 V	120 µV/V + 1.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	2 V to 19.9 V	110 µV/V + 0.24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	2 V to 19.9 V	84 µV/V + 0.24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 kHz to 2 kHz)	2 V to 19.9 V	76 µV/V + 0.24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	2 V to 19.9 V	130 µV/V + 0.24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	2 V to 19.9 V	210 µV/V + 0.50 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	2 V to 19.9 V	460 µV/V + 2.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 MHz to 1 MHz)	2 V to 19.9 V	0.82 % of Reading + 0.24 V	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	20 V to 199 V	120 µV/V + 14 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	20 V to 199 V	110 µV/V + 2.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	20 V to 199 V	91 µV/V + 2.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.1 kHz to 2 kHz)	20 V to 199 V	78 µV/V + 2.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	20 V to 199 V	120 µV/V + 2.4 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	20 V to 199 V	200 µV/V + 5.0 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	20 V to 199 V	480 µV/V + 24 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	200 V to 1000 V	57 µV/V + 0.16 V	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	200 V to 1000 V	91 µV/V + 50 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 0.04 kHz to 10 kHz)	200 V to 1000 V	93 µV/V + 50 mV	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	200 V to 1000 V	150 µV/V + 0.1 V	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	200 V to 1000 V	240 µV/V + 0.5 V	Fluke 8508A HP 3458A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Equipment to Output AC Current (@ 1 Hz to 10 Hz)	Up to 200 µA	260 µA/A + 24 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 10 kHz)	Up to 200 µA	240 µA/A + 24 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	Up to 200 µA	430 µA/A + 24 nA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 10 Hz)	200 µA to 2 mA	270 µA/A + 0.24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 10 kHz)	200 µA to 2 mA	240 µA/A + 0.24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	200 µA to 2 mA	340 µA/A + 0.24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 10 Hz)	2 mA to 20 mA	280 µA/A + 2.4 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 10 kHz)	2 mA to 20 mA	250 µA/A + 2.4 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	2 mA to 20 mA	240 µA/A + 2.4 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Output AC Current (@ 1 Hz to 10 Hz)	20 mA to 200 mA	280 µA/A + 24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 10 kHz)	20 mA to 200 mA	230 µA/A + 24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	20 mA to 200 mA	240 µA/A + 24 µA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 10 Hz)	200 mA to 2 A	530 µA/A + 0.24 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 10 kHz)	200 mA to 2 A	520 µA/A + 0.24 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	200 mA to 2 A	670 µA/A + 0.24 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 0.01 kHz to 2 kHz)	2 A to 20 A	690 µA/A + 2.4 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	2 A to 20 A	0.21 % of Reading + 2.4 mA	Fluke 8508A HP 3458A (With shunt above 1 Amp)	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	29 µA to 330 µA	0.15 % of Reading + 0.1 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	29 µA to 330 µA	0.11 % of Reading + 0.1 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 0.045 kHz to 1 kHz)	29 µA to 330 µA	0.091 % of Reading + 0.1 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	29 µA to 330 µA	0.22 % of Reading + 0.15 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	29 µA to 330 µA	0.61 % of Reading + 0.2 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	29 µA to 330 µA	1.2 % of Reading + 0.4 µA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	330 µA to 3.3 mA	0.15 % of Reading + 0.000 15 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	330 µA to 3.3 mA	0.096 % of Reading + 0.000 15 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 0.045 kHz to 1 kHz)	330 µA to 3.3 mA	0.078 % of Reading + 0.000 15 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	330 µA to 3.3 mA	0.16 % of Reading + 0.0002 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	330 µA to 3.3 mA	0.39 % of Reading + 0.0003 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	330 µA to 3.3 mA	0.77 % of Reading + 0.0006 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	0.14 % of Reading + 0.002 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	0.07 % of Reading + 0.002 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 0.045 kHz to 1 kHz)	3.3 mA to 33 mA	0.03 % of Reading + 0.002 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	0.061 % of Reading + 0.002 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	0.15 % of Reading + 0.003 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 33 mA	0.32 % of Reading + 0.004 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.14 % of Reading + 0.02 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.07 % of Reading + 0.02 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 0.045 kHz to 1 kHz)	33 mA to 330 mA	0.03 % of Reading + 0.02 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.058 % of Reading + 0.05 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	33 mA to 330 mA	0.15 % of Reading + 0.1 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	33 mA to 330 mA	0.3 % of Reading + 0.2 mA	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	330 mA to 3 A	0.14 % of Reading + 0.0001 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 0.045 kHz to 1 kHz)	330 mA to 3 A	0.047 % of Reading + 0.0001 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	330 mA to 3 A	0.47 % of Reading + 0.001 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	330 mA to 3 A	1.9 % of Reading + 0.005 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	3 A to 20.5 A	0.09 % of Reading + 0.005 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 0.1 kHz to 1 kHz)	3 A to 20.5 A	0.11 % of Reading + 0.005 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 20.5 A	2.3 % of Reading + 0.005 A	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	Up to 33 mV	400 µV/V + 6 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 10 kHz)	Up to 33 mV	23 µV/V + 6 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	Up to 33 mV	53 µV/V + 6 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	Up to 33 mV	530 µV/V + 6 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	Up to 33 mV	0.2 % of Reading + 0.012 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	Up to 33 mV	0.43 % of Reading + 0.05 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	230 µV/V + 8 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 10 kHz)	33 mV to 330 mV	110 µV/V + 8 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	130 µV/V + 8 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	270 µV/V + 8 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	590 µV/V + 32 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Micron Inspection & Calibration Services, Inc.

2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-545-0751

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Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.15 % of Reading + 0.07 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	330 mV to 3.3 V	230 µV/V + 50 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 10 kHz)	330 mV to 3.3 V	110 µV/V + 60 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	330 mV to 3.3 V	140 µV/V + 60 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	330 mV to 3.3 V	230 µV/V + 50 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	330 mV to 3.3 V	530 µV/V + 130 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	330 mV to 3.3 V	0.18 % of Reading + 0.0006 V	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	230 µV/V + 650 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 10 kHz)	3.3 V to 33 V	110 µV/V + 600 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	180 µV/V + 600 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	270 µV/V + 600 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	680 µV/V + 1600 µV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 V to 330 V	150 µV/V + 2 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 10 kHz)	33 V to 330 V	150 µV/V + 6 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	190 µV/V + 6 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	230 µV/V + 6 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	0.15 % of Reading + 0.05 V	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz	330 V to 1020 V	230 µV/V + 10 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.045 kHz to 1 kHz)	330 V to 1020 V	190 µV/V + 10 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1020 V	190 µV/V + 10 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1020 V	230 µV/V + 10 mV	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Output AC Voltage (above 1 kV)	1 kV to 10 kV	1.5 V + 0.000 000 04 V/V	Vitrek 4700 Precision HV Meter	QI-155	F1, F3	F
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 10 kHz)	0.35 nF	0.4 % of Reading + 7.8 pF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 10 kHz)	1.1 nF	0.3 % of Reading + 0.01 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 3 kHz)	3.3 nF	0.43 % of Reading + 0.01 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 1 kHz)	11 nF	0.21 % of Reading + 0.01 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 1 kHz)	33 nF	0.13 % of Reading + 0.1 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 1 kHz)	109 nF	0.18 % of Reading + 0.1 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 1 kHz)	300 nF	0.18 % of Reading + 0.3 nF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 600 Hz)	1.09 µF	0.18 % of Reading + 0.001 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Equipment to Measure Capacitance (@ 10 Hz to 300 Hz)	3 µF	0.18 % of Reading + 0.003 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 150 Hz)	10.9 µF	0.18 % of Reading + 0.01 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 120 Hz)	30 µF	0.3 % of Reading + 0.03 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ 10 Hz to 80 Hz)	109 µF	0.36 % of Reading + 0.1 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 50 Hz)	300 µF	0.33 % of Reading + 0.3 uF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 20 Hz)	1.09 mF	0.35 % of Reading + 0.001 mF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 6 Hz)	3 mF	0.33 % of Reading + 0.003 mF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 2 Hz)	10.9 mF	0.35 % of Reading + 0.01 mF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 0.6 Hz)	30 mF	0.57 % of Reading + 0.03 mF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance (@ Up to 0.2 Hz)	109 mF	0.82 % of Reading + 0.1 mF	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F, O

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Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type E)	-250 °C to -100 °C	0.42 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type E)	-100 °C to -25 °C	0.21 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type E)	-25 °C to 350 °C	0.2 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type E)	350 °C to 650 °C	0.21 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type E)	650 °C to 1000 °C	0.23 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type J)	-210 °C to -100 °C	0.26 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type J)	-100 °C to -30 °C	0.19 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type J)	-30 °C to 150 °C	0.18 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type J)	150 °C to 760 °C	0.19 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type J)	760 °C to 1200 °C	0.23 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type K)	-200 °C to -100 °C	0.29 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type K)	-100 °C to -25 °C	0.2 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type K)	-25 °C to 120 °C	0.19 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type K)	120 °C to 1000 °C	0.24 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type K)	1000 °C to 1372 °C	0.34 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type R)	0 °C to 250 °C	0.47 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type R)	250 °C to 400 °C	0.32 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type R)	400 °C to 1000 °C	0.31 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type R)	1000 °C to 1767 °C	0.35 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type S)	0 °C to 250 °C	0.40 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type S)	250 °C to 400 °C	0.33 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type S)	400 °C to 1400 °C	0.33 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type S)	1400 °C to 1767 °C	0.39 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type T)	-250 °C to -150 °C	0.51 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F

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Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type T)	-150 °C to 0 °C	0.23 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type T)	0 °C to 120 °C	0.19 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type T)	120 °C to 400 °C	0.18 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type U)	-200 °C to 0 °C	0.46 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Indicators, Controllers, and Measurement Devices Utilizing Thermocouple (Type U)	0 °C to 600 °C	0.25 °C	Fluke 5522 Fluke 5520A	OEM Manual and Internal Procedure: ELECTRICAL, DMM	F1, F2, F3	F
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	-200 °C to -80 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	-80 °C to 0 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	0 °C to 100 °C	0.09 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	100 °C to 300 °C	0.11 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	300 °C to 400 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	400 °C to 630 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 395, 100 Ω	630 °C to 800 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	-200 °C to -80 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	-80 °C to 0 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	0 °C to 100 °C	0.09 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	100 °C to 300 °C	0.11 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	300 °C to 400 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3926, 100 Ω	400 °C to 630 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	-200 °C to -190 °C	0.29 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	-190 °C to -80 °C	0.06 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	-80 °C to 0 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	0 °C to 100 °C	0.08 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	100 °C to 260 °C	0.09 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	260 °C to 300 °C	0.1 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	300 °C to 400 °C	0.11 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3916, 100 Ω	400 °C to 600 °C	0.12 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	-200 °C to -80 °C	0.06 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	-80 °C to 0 °C	0.06 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	0 °C to 100 °C	0.06 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	100 °C to 260 °C	0.07 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	260 °C to 300 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	300 °C to 400 °C	0.15 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	400 °C to 600 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 200 Ω	600 °C to 630 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	-200 °C to -80 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	-80 °C to 0 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	0 °C to 100 °C	0.11 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	100 °C to 260 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	260 °C to 300 °C	0.1 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	300 °C to 400 °C	0.1 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	400 °C to 600 °C	0.11 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD Pt 385, 500 Ω	600 °C to 630 °C	0.13 °C	Electrical Simulation of RTD Output Fluke 5520A	QI-103	F1, F3	F, O
Electrical	Tec Services PH-5 (Photometer Leakage)	Up to 0.025 %	0.000 45 % of Reading	Keithley 6220 Precision Current Source	QI-211 & QI-123	F1, F3	F, O
Electrical	Tec Services PH-5 (Photometer Leakage)	0.025 % to 0.25 %	0.002 4 % of Reading	Keithley 6220 Precision Current Source	QI-211 & QI-123	F1, F3	F, O
Electrical	Tec Services PH-5 (Photometer Leakage)	0.25 % to 2.5 %	0.006 9 % of Reading	Keithley 6220 Precision Current Source	QI-211 & QI-123	F1, F3	F, O
Electrical	Tec Services PH-5 (Photometer Leakage)	2.5 % to 25 %	0.048 % of Reading	Keithley 6220 Precision Current Source	QI-211 & QI-123	F1, F3	F, O
Electrical	Tec Services PH-5 (Photometer Leakage)	25 % to 250 %	0.23 % of Reading	Keithley 6220 Precision Current Source	QI-211 & QI-123	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	Up to 300 lb	0.04 lb	NIST Class F Weights	Internal Procedure: SCALE	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	F, O
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	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales	5 lb to 25 lb	0.01 lb	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Scales	25 lb to 100 lb	0.02 lb	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Scales	100 lb to 1 000 lb	0.1 lb	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O

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Mass, Force, and Weighing Devices	Scales	1 g to 500 g	0.07 g	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Scales	500 g to 5 kg	0.19 g	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Scales	5 kg to 50 kg	1.8 g	Class F Weights	NIST Handbook 44 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class I Weighing Device and Balances	1 mg to 5 g (Resolution = 0.000 001 g)	0.000 056 mg	ASTM E1617 Class 1 Test Weights	NISTIR 6919 Chapter 3 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class I Weighing Device and Balances	1 mg to 40 g (Resolution = 0.000 01 g)	0.000 15 g	ASTM E1617 Class 1 Test Weights	NISTIR 6919 Chapter 3 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class I Weighing Device and Balances	1 mg to 200 g (Resolution = 0.000 1 g)	0.000 49 g	ASTM E1617 Class 1 Test Weights	NISTIR 6919 Chapter 3 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class I Weighing Device and Balances	1 mg to 200 g (Resolution = 0.001 g)	0.003 4 g	ASTM E1617 Class 1 Test Weights	NISTIR 6919 Chapter 3 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class II Weighing Device Scales and Balances	10 mg to 10 000 g (Resolution = 0.1 g)	0.36 g	ASTM E1617 Class 1 Test Weights	NIST Handbook 44 and NISTIR 6919 Chapters 3 and 4 QI-107	F1, F2, F3	O
Mass, Force, and Weighing Devices	Class III Weighing Device Scales and Balances	5 lb to 100 lb (Resolution = 0.1 lb)	0.32 lb	NIST Class F Test Weights	NIST Handbook 44 and NISTIR 6919 Chapters 3, 4, and 5 QI-107	F1, F2, F3	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	F1, F3	F

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Mechanical	Absolute Pressure Measuring Devices (Gas)	7 psia to 15 psia	0.003 psia	Fluke PM600-A200K Pressure Transducer	Internal Procedure: PRESSURE, PRESS VAC	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	F, O

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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	F1, F3	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	F1, F3	F, O
Mechanical	Pressure Measuring Devices and Gauges (Hydraulic Gauge)	8 000 psi to 10 000 psi	(2 psi + 0.6R)	Fluke P3124-PSI Deadweight Tester	Internal Procedure: PRESSURE	F1, F3	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	F1, F3	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	F1, F3	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	F1, F3	F
Mechanical	Torque Transducers	5 ozf•in to 200 ozf•in	(0.09 % of Reading + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F1, F3	F
Mechanical	Torque Transducers	5 lbf•in to 400 lbf•in	(0.1 % of Reading + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F1, F3	F
Mechanical	Torque Transducers	40 lbf•in to 1 000 lbf•in	(0.13 % of Reading + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F1, F3	F
Mechanical	Torque Transducers	25 lbf•ft to 600 lbf•ft	(0.14 % of Reading + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F1, F3	F

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Mechanical	Torque Transducers	60 lbf•ft to 2 000 lbf•ft	(0.09 % of Reading + 0.58R)	CI torque arms and NIST Class F Weights	Internal Procedure: TORQUE	F1, F3	F
Mechanical	Torque Gages	5 ozf•in to 50 ozf•in	(0.78 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	50 ozf•in to 200 ozf•in	(0.42 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	30 lbf•in to 400 lbf•in	(0.54 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	400 lbf•in to 1 000 lbf•in	(0.61 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	30 lbf•ft to 50 lbf•ft	(0.43 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	50 lbf•ft to 250 lbf•ft	(0.36 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	250 lbf•ft to 600 lbf•ft	(0.48 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Torque Gages	100 lbf•ft to 1 000 lbf•ft	(0.43 % of Reading + 0.6R)	Torque Transducers	Internal Procedure: TORQUE	F1, F3	F, O
Mechanical	Flow Meters and Controllers	25 sccm	0.13 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	50 sccm	0.32 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	75 sccm	0.3 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	100 sccm	0.29 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	125 sccm	0.33 sccm	Cal Trak SL-800	QI-203	F1, F3	F

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Mechanical	Flow Meters and Controllers	150 sccm	0.3 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	175 sccm	0.34 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	200 sccm	0.37 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	225 sccm	0.41 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	250 sccm	0.51 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	275 sccm	0.56 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	300 sccm	0.54 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	325 sccm	0.6 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	350 sccm	0.64 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	375 sccm	0.67 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	400 sccm	0.7 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	425 sccm	0.76 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	450 sccm	0.87 sccm	Cal Trak SL-800	QI-203	F1, F3	F
Mechanical	Flow Meters and Controllers	475 sccm	0.86 sccm	Cal Trak SL-800	QI-203	F1, F3	F

Certificate of Accreditation: Supplement

Micron Inspection & Calibration Services, Inc.

2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-545-0751

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 (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
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	F1, F3	F, O
Thermodynamic	Chambers, Ovens, Freezers (Temperature)	0 °C to 20 °C	0.3 °C	Vaisala M170 Temperature Probe with Readout	Internal Procedure: TEMPHUMID	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	-196 °C	0.011°C	Hart 1502A w/ 5614 PRT Using Liquid Nitrogen	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-78 °C	0.008 8 °C	Hart 1502A w/ 5614 PRT Using Dry Ice Sublimation point	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-196 °C	0.12 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT Using Liquid Nitrogen	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-78 °C	0.29 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT using Dry Ice Sublimation Point	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-45 °C to 0 °C	0.014 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	0 °C to 50 °C	0.042 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	50 °C to 100 °C	0.042 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	100 °C to 150 °C	0.04 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F

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Thermodynamic	Equipment to Measure Temperature	150 °C to 200 °C	0.16 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	200 °C to 250 °C	0.046 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	250 °C to 300 °C	0.04 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	300 °C to 350 °C	0.094 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	350 °C to 400 °C	0.084 °C	Hart 1590 Super Thermometer II w/ AM1960 PRT and Baths	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-45 °C to 0 °C	0.011 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	0 °C to 50 °C	0.021 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	50 °C to 100 °C	0.11 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	100 °C to 150 °C	0.008 8 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	150 °C to 200 °C	0.022 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	200 °C to 250 °C	0.016 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	250 °C to 300 °C	0.025 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O

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Thermodynamic	Equipment to Measure Temperature	300 °C to 350 °C	0.021 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	350 °C to 400 °C	0.022 °C	Hart 1502A w/ 5614 PRT and Baths	QI-103	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature	400 °C to 450 °C	0.13 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	450 °C to 850 °C	0.12 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	850 °C to 900 °C	0.14 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	900 °C to 950 °C	0.42 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	950 °C to 1 000 °C	0.16 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F

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Thermodynamic	Equipment to Measure Temperature	1 000 °C to 1 050 °C	0.73 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	1 050 °C to 1 100 °C	0.76 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	1 100 °C to 1 150 °C	1.2 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	1 150 °C to 1 200 °C	1.3 °C	IsoTech Milli K w/ Type R Thermocouple and Hart Scientific 9112 Calibration furnace, and Isotech 465 High temp Furnace	QI-103	F1, F3	F
Thermodynamic	Equipment to Measure IR Temperature	35 °C to 100 °C	0.76 °C	Fluke 4181 Blackbody Source	QI-117	F1, F3	F, O
Thermodynamic	Equipment to Measure IR Temperature	100 °C to 200 °C	1.2 °C	Fluke 4181 Blackbody Source	QI-117	F1, F3	F, O
Thermodynamic	Equipment to Measure IR Temperature	200 °C to 350 °C	2.2 °C	Fluke 4181 Blackbody Source	QI-117	F1, F3	F, O
Thermodynamic	Equipment to Measure IR Temperature	350 °C to 500 °C	2.6 °C	Fluke 4181 Blackbody Source	QI-117	F1, F3	F, O
Thermodynamic	IR Thermometers	-35 °C to 150 °C	1.3 °C + 0.005 3 ºC/ºC	9133 IR Calibrator	QI-117	F1, F3	F

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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	F1, F3	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	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	0.1 µL to 2.5 µL	2.6 % of Value + 60 nL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	2.5 µL to 10 µL	0.31 % of Value + 120 nL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	10 µL to 20 µL	0.28 % of Value + 0.12 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	20 µL to 100 µL	0.14 % of Value + 0.31 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F

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Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	100 µL to 200 µL	0.79 % of Value + 0 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	200 µL to 1 000 µL	0.67 % of Value + 1.2 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	1 000 µL to 5 000 µL	0.067 % of Value +13 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Fluid Quantities	Pipettes, Burettes, Diluters, Dispensers, Repeaters, Syringes, Liquid Handlers, and Automated Dispensing Machines	5 000 µL to 10 000 µL	0.15 % of Value + 34 µL	Mettler Toledo MCP105 W/ Calibry Software	ISO 8655-1 thru 7 QI -154	F1, F2, F3	F
Time and Frequency	Timers and Stopwatches	Up to 24 hr	0.05 S/D	Timometer 4500	QI-112	F1, F3	F
Time and Frequency	Optical Tachometers	10 RPM to 99 900 RPM	0.003 9 RPM + 0.000 001 27 RPM/RPM	Fluke 5520A Calibrator	QI-200	F1, F3	F

Certificate of Accreditation: Supplement

Micron Inspection & Calibration Services, Inc.
2870 Haymeadow Drive, York, PA 17406
Contact Name: Josh Skoczynski Phone: 717-545-0751

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.

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