



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Aldinger Company dba Holts Precision

1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074

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:

Chemical, Dimensional, Electrical, Mass, Force, and Weighing Devices,

Mechanical, and Thermodynamic

(As detailed in the supplement)

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

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

December 02, 2002

November 12, 2025

November 30, 2027

Accreditation No.:

Certificate No.:

59114

L25-844

Tracy Szerszen President

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





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1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074 Contact Name: Rey Feliz Phone: 602-684-0313

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

400 Chapel Road Unit 3A, South Windsor, CT 06074

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	0.01 in to 20 in	1.5 μin/in + 6.5 μin	Federal Comparator Master Gage Blocks	HCP-030 ASME-B89.1.9	F1, F2, F3	F
Dimensional	Ring Gages	0.04 in to 20 in	17 μin + 0.7 μin/in	P&W Lab Master Mastered with Master Gage Blocks and Master Ring Gage	HCP-017 ASME-B89.1.6	F1, F2, F3	F
Dimensional	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(340 + 63L) μin	Master Threaded Set Plug	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	(8.6 + 1.6 L) μm	Master Threaded Set Plug	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19 L) μin	Master Plain Class X Plug Gage	HCP-093	F1, F3	F
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	$(1.8 + 0.48L) \mu m$	Master Plain Class X Plug Gage	HCP-093	F1, F3	F
Dimensional	Cylindrical Plug and Discs	0.254 mm to 304.8 mm	(0.79 + 0.04 L) µm	P W Super micrometer	HCP-014	F1, F3	F
Dimensional	Cylindrical Plug and Discs	0.01 in to 12 in	$(31 + 1.6 L) \mu in$	P W Super micrometer	HCP-014	F1, F3	F
Dimensional	Pin Gages	0.254 mm to 25.4 mm	1.1 μm	Twin Horizontal Class ZZ	HCP-014	F1, F3	F
Dimensional	Pin Gages	0.01 in to 1.0 in	43 μin	Twin Horizontal Class ZZ	HCP-014	F1, F3	F
Dimensional	Micrometer Standards	25.4 mm to 914.4 mm	(2.4 + 0.2 L) μm	Gage Blocks	HCP-024	F1, F3	F
Dimensional	Micrometer Standards	1 in to 36 in	(93 + 8.1 L) μin	Gage Blocks	HCP-024	F1, F3	F
Dimensional	Micrometers	1 mm to 1 016 mm	$(1.2 + 0.2 L) \mu m$	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	$(48 + 7.9 L) \mu in$	Gage Blocks	HCP-003	F1, F3	F, O





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Contact Name: Rey Feliz Phone: 602-684-0313

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	Calipers	1 mm to 2 032 mm	$(13 + 0.3 L) \mu m$	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9 L) μin	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1.0 μm	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μin	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3 L) μin	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(2.4 + 0.03 L) μm	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	0-80 to 4-4	$(32 + 1.9 L) \mu in$	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	M 1.6 x 0.35 to M 100 x 6	(0.81 + 0.05 L) µm	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	(1.7 + 0.02 D) µm	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6 D) in	Planekater, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μm	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10in to 120 in (Diagonal)	51 μin	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Optical Comparators (Linear Axis)	0.05 in to 12 in	(150 + 23 L) μin	Glass Masters	HCP-036	F1, F3	О





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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	Optical Comparators (Squareness of X axis to Y axis)	3 in	220 μin	Glass Masters	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Angularity)	Up to 90 °	0.01°	Glass Masters	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	10X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	20X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	25X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	30X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	31.25X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	50X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	62.5X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	100X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	250X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	500X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	О
Dimensional	Height Gage	Up to 40 in	(59 + 4.7L) μin	Gage Blocks	HCP-056	F1, F3	F, O





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Dimensional	Coordinate Measuring Machine (X Axis)	Up to 24 in	$(63 + 5.6L) \mu in$	Gage Blocks, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X Axis)	Up to 600 mm	$(1.6 + 0.14L) \mu m$	Gage Blocks, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Video Measurement Machine (X-Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Video Measurement Machine (Y-Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Video Measurement Machine (Z-Axis) (Angularity)	0 ° ∠ to 360 °∠	0.003 °∠	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Profilometers	1 μin to 1 000 μin	4 μin	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Thread Wires	0.004 8 in to 0.289 in	31 µin	P&W Supermicrometer Mastered with Gage Blocks	HCP-033	F1, F3	F
Dimensional	Horizontal Measuring Machines	1 in to 100 in	1.6 μin/in + 28 μin	Renishaw XL-80 Laser	HCP-068	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O





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Mechanical	Pressure Gage	103.4 kPa to 103.4	0.06 psi + 0.22 %	Dead Weight Tester	HCP-041	F1, F3	F, O
		MPa	of reading	Druck DPI 611			
Mechanical	Pressure Gage	-14.5 psi to 15 000	0.06 psi + 0.22 %	Dead Weight Tester	HCP-041	F1, F3	F, O
		psi	of reading	Druck DPI 611			
Electrical	Equipment to Measure	Up to 330 mV	$20 \mu V / V + 1 \mu V$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Voltage			Fluke Automated			
Electrical	Equipment to Measure	0.33 V to 3.3 V	$11 \mu V/V + 2 \mu V$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Voltage			Fluke Automated			
Electrical	Equipment to Measure	3.3 V to 33 V	$12 \mu V/V + 20 \mu V$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Voltage			Fluke Automated			
Electrical	Equipment to Measure	33 V to 330 V	$18 \mu\text{V/V} + 150$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Voltage		μV	Fluke Automated			
Electrical	Equipment to Measure	330 V to 1 000 V	$18 \mu\text{V/V} + 1.5$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Voltage		mV	Fluke Automated			
Electrical	Equipment to Measure	Up to 330 μA	$150 \mu\text{A/A} + 0.02$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	0.33 mA to 3.3 mA	$100 \mu A/A + 0.05$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	3.3 mA to 33 mA	$100 \mu A/A + 0.25$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μA	Fluke Automated			
Electrical	Equipment to Measure	33 mA to 330 mA	$100 \mu A/A + 2.5$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μA .	Fluke Automated			
Electrical	Equipment to Measure	0.33 A to 1.1 A	$200 \mu A/A + 40$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μA [']	Fluke Automated			
Electrical	Equipment to Measure	1.1 A to 3 A	$380 \mu A/A + 40$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ΄	Fluke Automated			'





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Electrical	Equipment to Measure DC Current	3 A to 11 A	500 μA/A + 500 μA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	0 Ω to 11 Ω	$40 \ \mu\Omega/\Omega + 1 \ m\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 110 Ω	$28 \mu\Omega/\Omega + 1.4 m\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110Ω to 1.1 kΩ	$28 \mu\Omega/\Omega + 2 m\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	$1.1 \text{ k}\Omega$ to $11 \text{ k}\Omega$	$\begin{array}{c c} 28 \ \mu\Omega/\Omega + 20 \\ m\Omega \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 kΩ to 110 kΩ	$28 \mu\Omega/\Omega + 200 m\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 kΩ to 1.1 MΩ	$32 \mu\Omega/\Omega + 2 \Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 M Ω to 3.3 M Ω	$60 \mu\Omega/\Omega + 30 \Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	$3.3~\mathrm{M}\Omega$ to $11~\mathrm{M}\Omega$	$130 \mu\Omega/\Omega + 50 \Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 M Ω to 33 M Ω	$250 \mu\Omega/\Omega + 2.5$ $k\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	$33 \text{ M}\Omega$ to $110 \text{ M}\Omega$	$40 \ \mu\Omega/\Omega + 10 \ \Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	$0.5 \text{ m}\Omega/\Omega + 3 \text{ k}\Omega$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 MΩ to 1,100 MΩ	$\begin{array}{c} 15 \text{ m}\Omega/\Omega + 0.5 \\ \text{M}\Omega \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O





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Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	$0.8 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	$0.15 \text{ mV/V} + 6 \\ \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	$0.2 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	$1 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	$3.5 \text{ mV/V} + 12 \\ \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	$8 \text{ mV/V} + 50 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	$0.3 \text{ mV/V} + 8 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	$0.15 \text{ mV/V} + 8 \ \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.16 mV/V + 8 μV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	$\begin{array}{c} 0.35 \text{ mV/V} + 8 \\ \mu\text{V} \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O





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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	$\begin{array}{c} 0.8 \text{ mV/V} + 32 \\ \mu\text{V} \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	$2 \text{ mV/V} + 70 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	$\begin{array}{c} 0.3 \text{ mV/V} + 50 \\ \mu\text{V} \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	$0.15 \text{ mV/V} + 60 \\ \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	$0.19 \text{ mV/V} + 60 \ \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	$\begin{array}{c} 0.3 \text{ mV/V} + 50 \\ \mu\text{V} \end{array}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.7 mV/V + 0.13 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	2.4 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.3 mV/V + 0.65 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.15 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O





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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
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.24 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.35 mV/V + 0.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.9 mV/V + 1.6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.19 mV/V + 2 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.2 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.25 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	0.3 mV/V + 6 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	2 mV/V + 50 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	330 V to 1 020 V	3 mV/V + 10 mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 μΑ to 330 μΑ	$1.25 \text{ mA/A} + 0.1 \ \mu\text{A}$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O





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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
Equipment to Measure AC	0.33 mA to 3.3 mA	1 mA/A + 0.15	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
* *	3.3 mA to 33 mA	$0.4 \text{ mA/A} + 2 \mu\text{A}$		HCP-060	F1, F3	F, O
1 1	33 mA to 330 mA	0.4 mA/A + 20		HCP-060	F1, F3	F, O
		μΑ				
	0.33 A to 1.1 A	0.5 mA/A + 0.1	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Current (@ 45 Hz to 1 kHz)		mA	Fluke Automated			
Equipment to Measure AC	1.1 A to 3 A	0.6 mA/A + 0.1	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Current (@ 45 Hz to 1 kHz)		mA	Fluke Automated			
Equipment to Measure AC	3 A to 11 A	1 mA/A + 2 mA	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Current (@ 45 Hz to 1 kHz)			Fluke Automated			
Equipment to Measure AC	3 A to 11 A	30 mA/A + 2 mA	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Current (@ 1 kHz to 5 kHz)			Fluke Automated			
Equipment to Measure	1.1 nF to 3.3 nF	0.5 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Capacitance		+ 10 pF	Fluke Automated			
Equipment to Measure	3.3 nF to 0.33 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Capacitance		+ 30 pF	Fluke Automated			
Equipment to Measure	0.33 μF to 1.1 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Capacitance		+ 1 nF	Fluke Automated			
Equipment to Measure	1.1 μF to 3.3 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Capacitance		+ 3 nF	Fluke Automated			
Equipment to Measure	3.3 μF to 11 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Capacitance		+ 10 nF	Fluke Automated			
_						
	INSTRUMENT, QUANTITY OR GAUGE Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 1 kHz to 5 kHz) Equipment to Measure Capacitance Equipment to Measure	INSTRUMENT, QUANTITY OR GAUGE Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 1 kHz to 5 kHz) Equipment to Measure Capacitance Equipment to Measure Capacitance	INSTRUMENT, QUANTITY OR GAUGE Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 45 Hz to 1 kHz) Equipment to Measure AC Current (@ 1 kHz to 5 kHz) Equipment to Measure Capacitance Equipment to Measure Capacitance Equipment to Measure Capacitance 1.1 μF to 3.3 μF 0.25 % of reading + 1 nF Equipment to Measure Capacitance Equipment to Measure Capacitance 1.1 μF to 3.3 μF 0.25 % of reading + 1 nF Equipment to Measure Capacitance Equipment to Measure Capacitance 1.1 μF to 3.3 μF 0.25 % of reading + 3 nF Equipment to Measure Capacitance Equipment to Measure Capacitance 1.1 μF to 3.3 μF 0.25 % of reading + 3 nF Capacitance Equipment to Measure Capacitance 1.1 μF to 3.3 μF 0.25 % of reading + 3 nF	INSTRUMENT, QUANTITY OR GAUGE APPROPRIATE) CAND SPECIFICATION WHERE APPROPRIATE UNCERTAINTY (±)¹ REFERENCE STANDARDS USED	INSTRUMENT, QUANTITY OR GAUGE CAND SPECIFICATION WHERE APPROPRIATE) UNCERTAINTY (±)¹ REFERENCE STANDARDS USED MICHODOR PROCEDURES USED MICHODOR PROCEDURE SUBLES MICHODOR PROCEDURES USED MICHODOR PROCEDURES USED MICHODOR PROCEDURE MICHODOR PROCEDURE MICHODOR PROCEDURE MICHODOR PROCEDURE MICHODOR PROCEDURE MICHODOR PROCEDURE MICHODOR PROCEDU	INSTRUMENT, QUANTITY OR GAUGE CAND SPECIFICATION WHERE APPROPRIATE) UNCERTAINTY (±) UNCERTAINTY (±) STANDARDS USED REFERENCE STANDARDS USED HCP-060 F1, F3





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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C (Res. = 0.1° C)	0.27 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30° C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C (Res. = 0.1° C)	0.17 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C (Res. = 0.1° C)	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C (Res. = 0.1° C)	0.33 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25°C (Res. = 0.1° C)	0.18 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C (Res. = 0.1° C)	0.26 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C (Res. = 0.1° C)	0.4 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C (Res. = 0.1° C)	0.47 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C (Res. = 0.1° C)	0.36 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C (Res. = 0.1° C)	0.37 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	100 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	630 °C to 800 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	300 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-200 °C to -190 °C	0.25 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-190 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	0 °C to 100 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	100 °C to 260 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	300 °C to 400 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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FIELD OF	MEASURED	RANGE		CALIBRATION		FLEX CODE	LOCATION
CALIBRATION	INSTRUMENT, QUANTITY OR GAUGE	(AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) 1	EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED		OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	400 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	-200 °C to 0 °C	0.03 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	0 °C to 100 °C	0.04 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	100 °C to 260 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	260 °C to 300 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	300 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Hipot Testers	0.5 kV to 10 kV	0.001 kV/kV + 0.011 kV	Fluke 5320A Multifunction Electrical Tester Calibrator	HCP-062	F1, F3	F, O





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Electrical	Gauss Meters/	2 Gauss to 100	0.034	Magwerks Gauss Meter	HCP-048	F1, F3	F, O
	Magnetometers	Gauss	Gauss/Gauss +	Calibrator with Coil			
			0.18 Gauss				
Thermodynamic	Equipment to Measure	10 % RH to 95 %	2.2 % RH	Saturated Salts Std's	HCP-087	F1, F3	F, O
	Humidity (RH)	RH					
Thermodynamic	Infrared Thermometers	-10 °C to 150 °C	2.4 °C	Omega BB701	HCP-051	F1, F3	F, O
Mass, Force, and	Analytical Balances	1 mg to 120 g	0.57 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.000 1 g)		9//			
Mass, Force, and	Analytical Balances	10 mg to 620 g	1.1 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.001 g)					
Mass, Force, and	Precision Balances	100 mg to 1 200 g	0.12 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.01 g)					
Mass, Force, and	Precision Balances	1 g to 10 kg	0.58 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.1 g)					
Mass, Force, and	Scale Bench	0.1 lb to 10 lb	0.0 014 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.001 lb)					
Mass, Force, and	Scale Bench	0.1 lb to 100 lb	0.0 086 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Weighing Devices		(Res. = 0.01 lb)					
Mass, Force, and	Scale Floor	1 lb to 500 lb	0.03 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Weighing Devices	a 1 51	(Res. = 0.05 lb)					
Mass, Force, and	Scale Floor	2.5 lb to 5 000 lb	0.29 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Weighing Devices	7	(Res. = 0.5 lb)	0.02 11	NACTOR 11 G 17	THOR 104	E1 E2	
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration	HCP-104	F1, F3	F, O
CI : 1	D		0.02 II	Solution	HCD 104	F1 F2	F. 0
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration	HCP-104	F1, F3	F, O
				Solution			





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Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μS/cm	2.5 µS/cm + 0.88 % of Reading µS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μS/cm	2.5 µS/cm + 0.88 % of Reading µS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	1 411 μS/cm	2.5 µS/cm + 0.88 % of Reading µS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	2 070 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O





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

1123A Route 23, Suite 3, Wayne, NJ 07470

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	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	$(340 + 63L) \mu in$	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	(8.6 + 1.6L) μm	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19L) μin	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	(1.8 + 0.48L) μm	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1016 mm	$(1.2 + 0.2L) \mu m$	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	$(48 + 7.9L) \mu in$	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Indicators	0.012 7 mm to 101.6 mm	3.05 μm	Mitutoyo 170-101 Dial Gage Tester, Gage Blocks	HPI-002	F1, F3	F, O
Dimensional	Indicators	0.000 5 in to 4 in	120 μin	Mitutoyo 170-101 Dial Gage Tester, Gage Blocks	HPI-002	F1, F3	F, O
Dimensional	Calipers	1 mm to 2032 mm	$(13 + 0.3L) \mu m$	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	$(520 + 3.9L) \mu in$	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Optical Comparators (X & Y Axis Linearity)	1.25 mm to 304.8 mm	(3.8 + 0.6L) μm	Gage Blocks, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (X & Y Axis Linearity)	0.05 in to 12.0 in	(150 + 23L) μin	Gage Blocks, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Axial Orientation) (@ 4 in)	1 ° (Y Axis Travel)	0.075 °	Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	5X	0.05 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O





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1123A Route 23, Suite 3, Wayne, NJ 07470
400 Chapel Road Unit 3A, South Windsor, CT 06074
171 Doty Circle, West Springfield, MA 01089
793 West Center Street, West Bridgewater, MA 06074
Contact Name: Rey Feliz Phone: 602-684-0313

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	Optical Comparators (Magnification)	10X	0.05 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	20X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	31.25X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	50X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	62.5X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification)	100X	0.02 %	Magnification Sphere Standards, Glass Master	HCP-036	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X-Axis)	Up to 24 in	(63 + 5.6L) μin	Gage Blocks, Ball Bar, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Coordinate Measuring Machine (X-Axis)	Up to 600 mm	$(1.6 + 0.14L) \mu m$	Gage Blocks, Ball Bar, Step Gage	HCP-085	F1, F3	F, O
Dimensional	Roundness Measuring Machine (Diameter)	1.25 mm to 304.8 mm	0.19 μm	Gage Blocks, Glass Master Hemisphere	HCP-101	F1, F3	F, O
Dimensional	Roundness Measuring Machine (Diameter)	0.05 in to 12 in	7.5 µin	Gage Blocks, Glass Master Hemisphere	HCP-101	F1, F3	F, O
Dimensional	Contour Measuring Machines	101.6 mm to 203.2 mm	$(1.1 + 0.08L) \mu m$	Gage Blocks, Glass Master Hemisphere	HCP-102	F1, F3	F, O
Dimensional	Contour Measuring Machines	4 in to 8 in	(41 + 3.4L) μin	Gage Blocks, Glass Master Hemisphere	HCP-102	F1, F3	F, O
Dimensional	Video Measurement Machine (X-Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	F, O





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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	Video Measurement Machine (Y-Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	$(1.7 + 0.02D) \mu m$	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6D) in	Planekater, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μm	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10 in to 120 in (Diagonal)	51 μin	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Thread Plug (Pitch Diameter)	0.02 in to 8 in	(137 + 18L) μin	Fowler THV, Thread Measuring Wires	HCP-016	F1, F3	F, O
Dimensional	Cylindrical Pin Gages	0.01 in to 4 in	(17 + 2.2L) μin	Fowler THV	HCP-014	F1, F3	F, O
Dimensional	Height Gages	0.01 in to 40 in	$(58.6 + 4.7L) \mu in$	Gage Blocks	HCP-056	F1, F3	F, O
Dimensional	Profilometers	1 μin to 1 000 μin	4 μίη	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Thread Wires	0.004 8 in to 0.289 in	31 µin	P&W Supermicrometer Mastered with Gage Blocks	HCP-033	F1, F3	F
Dimensional	CMM Spheres/ Gage Balls	0.001 in to 1 in	32 μin	P&W Supermicrometer Mastered with Gage Blocks, Roundness Machine	HCP-032	F1, F3	F
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O





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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
Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	28.6 HRC (Low)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	50.2 HRC (Middle)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	62.8 HRC (High)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	70.9 HR15N (Low)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	91.3 HR15N (High)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	74.7 HR15TW (Low)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	88.5 HR15TW (High)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	43.0 HR30N (Low)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	81.2 HR30N (High)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O





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Mechanical	Hardness Testers (HR30TW)	55.6 HR30TW (Low)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	76.5 HR30TW (High)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	26.9 HR45N (Low)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	69.2 HR45N (High)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	31.4 HR45TW (Low)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	56.4 HR45TW (High)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.12 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 20 00 lbf	0.001 1 lbf/lbf + 0.041 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O

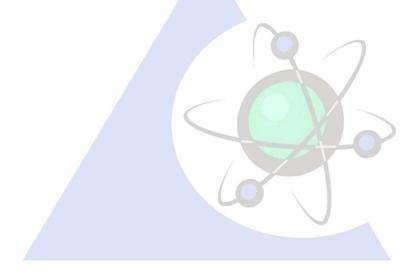




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Chemical	Equipment to Measure	1 411 μS/cm	$2.5 \mu\text{S/cm} + 0.88 \% \text{ of}$	NIST Traceable	HCP-103	F1, F3	F, O
	Conductivity		Reading μS/cm	Calibration Solution			
Chemical	Equipment to Measure	2 070 μS/cm	$2.5 \mu\text{S/cm} + 0.88 \% \text{ of}$	NIST Traceable	HCP-103	F1, F3	F, O
	Conductivity	•	Reading μS/cm	Calibration Solution			







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

793 West Center Street, West Bridgewater, MA 06074

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	Thread Ring Gages (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	$(340 + 63L) \mu in$	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Pitch Diameter)	0-80 to 4-10	$(8.6 + 1.6L) \mu m$	Master Threaded Set Plug	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	M 1.6 x 0.35 to M 100 x 6	(68 + 19L) μin	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Thread Ring Gages (Minor Diameter)	0-80 to 4-10	$(1.8 + 0.48L) \mu m$	Master Plain Class X Plug Gage	HCP-093	F1, F3	F, O
Dimensional	Cylindrical Plug and Discs	0.254 mm to 304.8 mm	(0.79 + 0.04L) µm	P W Super micrometer	HCP-014	F1, F3	F, O
Dimensional	Cylindrical Plug and Discs	0.01 in to 12 in	$(31 + 1.6L) \mu in$	P W Super micrometer	HCP-014	F1, F3	F, O
Dimensional	Pin Gages	0.254 mm to 25.4 mm	1.1 μm	Twin Horizontal Class ZZ	HCP-014	F1, F3	F, O
Dimensional	Pin Gages	0.01 in to 1.0 in	43 μin	Twin Horizontal Class ZZ	HCP-014	F1, F3	F, O
Dimensional	Micrometer Standards	25.4 mm to 914.4 mm	$(2.4 + 0.2L) \mu m$	Gage Blocks	HCP-024	F1, F3	F, O
Dimensional	Micrometer Standards	1 in to 36 in	(93 + 8.1L) μin	Gage Blocks	HCP-024	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1 016 mm	$(1.2 + 0.2L) \mu m$	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9L) μin	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Calipers	1 mm to 2 032 mm	$(13 + 0.3L) \mu m$	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9L) μin	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1 μm	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μin	Digital Micrometer Head	HCP-002	F1, F3	F, O





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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	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3L) μin	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Pitch Diameter)	M 1.6 x 0.35 to M 100 x 6	(2.4 + 0.03L) μm	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	0-80 to 4-4	(32 + 1.9L) μin	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Thread Plug Gage (Major Diameter)	M 1.6 x 0.35 to M 100 x 6	(0.81 + 0.05L) μm	Super Micrometer Mastered with Gage Blocks	HCP-016	F1, F3	F
Dimensional	Surface Plates (Flatness)	254 mm to 3 048 mm (Diagonal)	$(1.7 + 0.02D) \mu m$	Planekator, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	10 in to 120 in (Diagonal)	(66 + 0.6D) in	Planekater, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	254 mm to 3 048 mm (Diagonal)	1.3 μm	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Surface Plates (Repeat Reading)	10in to 120 in (Diagonal)	51 μin	Repeat-o-Meter, Indicator	HCP-035	F1, F3	F, O
Dimensional	Optical Comparators (Linear Axis)	0.05 in to 12 in	$(150 + 23L) \mu in$	Glass Masters	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Squareness of X axis to Y axis)	3 in	220 μin	Glass Masters	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Angularity)	Up to 90 °	0.01°	Glass Masters	HCP-036	F1, F3	F, O





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Dimensional	Optical Comparators (Magnification) (Up to 24 in)	10X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	20X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	25X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	30X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	31.25X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	50X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	62.5X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	100X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	250X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Optical Comparators (Magnification) (Up to 24 in)	500X	450 μin	Size Balls and Check Glass	HCP-036	F1, F3	F, O
Dimensional	Height Gage	Up to 40 in	(59 + 4.7L) μin	Gage Blocks	HCP-056	F1, F3	F, O
Dimensional	Video Measurement Machine (X Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	О
Dimensional	Video Measurement Machine (Y Axis)	Up to 12 in	27 μin/in + 75 μin	Glass Scale	HCP-084	F1, F3	О
Dimensional	Video Measurement Machine (Z Axis) (Angularity)	0 ° ∠ to 360 °∠	0.003 °∠	Glass Scale	HCP-084	F1, F3	О





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0.12.214.116.1	QUANTITY OR GAUGE	WHERE APPROPRIATE)	UNCERTAINTY (±) ¹	REFERENCE STANDARDS USED	METHOD OR PROCEDURES USED	0022	01.1011111
Dimensional	Profilometers	1 μin to 1 000 μin	4 μin	Calibrated Surface Finish	HCP-025	F1, F2,	F, O
				Patch	ASME B46.1	F3	
Dimensional	Thread Wires	0.0 048 in to 0.289 in	31 μin	P&W Supermicrometer	HCP-033	F1, F2,	F
				Mastered with Gage Blocks	ASME B89.1.17	F3	
Fluid Quantities	Pipettes	1 μL to 1 000 μL	1.2 μL/mL + 0.014 μL	Analytical Balance	HCP-086	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Pressure Gage	103.4 kPa to 103.4 MPa	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Pressure Gage	-14.5 psi to 15 000 psi	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O





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1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074 Contact Name: Rey Feliz Phone: 602-684-0313

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
Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	28.6 HRC (Low)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	50.2 HRC (Middle)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRC)	62.8 HRC (High)	1.9 HRC	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	70.9 HR15N (Low)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15N)	91.3 HR15N (High)	1.9 HR15N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	74.7 HR15TW (Low)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR15TW)	88.5 HR15TW (High)	1.9 HR15TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	43.0 HR30N (Low)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30N)	81.2 HR30N (High)	1.9 HR30N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR30TW)	55.6 HR30TW (Low)	1.9 HR30TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O





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1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074 Contact Name: Rey Feliz Phone: 602-684-0313

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
Mechanical	Hardness Testers (HR30TW)	76.5 HR30TW (High)	1.9 HR30TW	Certified NIST SRM	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	26.9 HR45N (Low)	1.9 HR45N	Hardness Blocks Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45N)	69.2 HR45N (High)	1.9 HR45N	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	31.4 HR45TW (Low)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HR45TW)	56.4 HR45TW (High)	1.9 HR45TW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	Up to 330 mV	$20 \mu V/V + 1 \mu V$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.3 V	$11 \mu V/V + 2 \mu V$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	$12 \mu V/V + 20 \mu V$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	18 μV/V + 150 μV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 000 V	$18 \mu V/V + 1.5 $ mV	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	Up to 330 μA	150 μA/A + 0.02 μA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 3.3 mA	$100 \mu A/A + 0.05 \mu A$	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 33 mA	100 μA/A + 0.25 μA	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O





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793 West Center Street, West Bridgewater, MA 06074
Contact Name: Rey Feliz Phone: 602-684-0313

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
Electrical	Equipment to Measure	33 mA to 330 mA	$100 \mu A/A + 2.5$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	0.33 A to 1.1 A	$200 \mu A/A + 40$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	1.1 A to 3 A	$380 \mu A/A + 40$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	3 A to 11 A	$500 \mu A/A + 500$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	DC Current		μΑ	Fluke Automated			
Electrical	Equipment to Measure	0 Ω to 11 Ω	$40 \mu\Omega/\Omega + 1 m\Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	11Ω to 110Ω	$28 \mu\Omega/\Omega + 1.4$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance		$m\Omega$	Fluke Automated			
Electrical	Equipment to Measure	110Ω to $1.1 \text{ k}\Omega$	$28 \mu\Omega/\Omega + 2 m\Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	$1.1 \text{ k}\Omega$ to $11 \text{ k}\Omega$	$28 \mu\Omega/\Omega + 20$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance		mΩ	Fluke Automated			
Electrical	Equipment to Measure	11 k Ω to 110 k Ω	$28 \mu\Omega/\Omega + 200$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance	<u> </u>	$m\Omega$	Fluke Automated			
Electrical	Equipment to Measure	$110 \text{ k}\Omega$ to $1.1 \text{ M}\Omega$	$32 \mu\Omega/\Omega + 2 \Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	$1.1 \text{ M}\Omega$ to $3.3 \text{ M}\Omega$	$60 \mu\Omega/\Omega + 30 \Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	$3.3~\mathrm{M}\Omega$ to $11~\mathrm{M}\Omega$	$130 \mu\Omega/\Omega + 50 \Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	11 MΩ to 33 MΩ	$250 \mu\Omega/\Omega + 2.5$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance		kΩ	Fluke Automated			





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1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074 Contact Name: Rey Feliz Phone: 602-684-0313

FIELD OF CALIBRATION	MEASURED INSTRUMENT,	RANGE (AND SPECIFICATION	EXPANDED MEASUREMENT	CALIBRATION EQUIPMENT AND	CALIBRATION MEASUREMENT	FLEX CODE	LOCATION OF ACTIVITY
	QUANTITY OR GAUGE	WHERE APPROPRIATE)	UNCERTAINTY (±) ¹	REFERENCE STANDARDS USED	METHOD OR PROCEDURES USED		
Electrical	Equipment to Measure	$33~\text{M}\Omega$ to $110~\text{M}\Omega$	$40 \mu\Omega/\Omega + 10 \Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	$110~\text{M}\Omega$ to $330~\text{M}\Omega$	$0.5 \text{ m}\Omega/\Omega + 3 \text{ k}\Omega$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance			Fluke Automated			
Electrical	Equipment to Measure	$330 \text{ M}\Omega$ to $1{,}100 \text{ M}\Omega$	$15 \text{ m}\Omega/\Omega + 0.5$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Resistance		ΜΩ	Fluke Automated			
Electrical	Equipment to Measure AC	1 mV to 33 mV	$0.8 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 Hz to 45 Hz)			Fluke Automated			
Electrical	Equipment to Measure AC	1 mV to 33 mV	0.15 mV/V + 6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 10 kHz)		μV	Fluke Automated			
Electrical	Equipment to Measure AC	1 mV to 33 mV	$0.2 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 kHz to 20			Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	1 mV to 33 mV	$1 \text{ mV/V} + 6 \mu\text{V}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage			Fluke Automated			
	(@ 20 kHz to 50 kHz)						
Electrical	Equipment to Measure AC	1 mV to 33 mV	3.5 mV/V + 12	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage		μV	Fluke Automated			
	(@ 50 kHz to 100 kHz)						
Electrical	Equipment to Measure AC	1 mV to 33 mV	$8 \text{ mV/V} + 50 \mu\text{V}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage			Fluke Automated			
	(@ 100 kHz to 500 kHz)						
Electrical	Equipment to Measure AC	33 mV to 330 mV	$0.3 \text{ mV/V} + 8 \mu\text{V}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 Hz to 45 Hz)			Fluke Automated			
Electrical	Equipment to Measure AC	33 mV to 330 mV	0.15 mV/V + 8	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 10 kHz)		μV	Fluke Automated			





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1123A Route 23, Suite 3, Wayne, NJ 07470 400 Chapel Road Unit 3A, South Windsor, CT 06074 171 Doty Circle, West Springfield, MA 01089 793 West Center Street, West Bridgewater, MA 06074 Contact Name: Rey Feliz Phone: 602-684-0313

FIELD OF	MEASURED	RANGE	EXPANDED	CALIBRATION	CALIBRATION	FLEX	LOCATION
CALIBRATION	INSTRUMENT, QUANTITY OR GAUGE	(AND SPECIFICATION WHERE APPROPRIATE)	MEASUREMENT	EQUIPMENT AND REFERENCE	MEASUREMENT METHOD OR	CODE	OF ACTIVITY
	QUANTITY OR GAUGE	WHERE APPROPRIATE)	UNCERTAINTY (±) ¹	STANDARDS USED	PROCEDURES USED		
Electrical	Equipment to Measure AC	33 mV to 330 mV	0.16 mV/V + 8	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 kHz to 20		μV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	33 mV to 330 mV	0.35 mV/V + 8	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 20 kHz to 50		μV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	33 mV to 330 mV	0.8 mV/V + 32	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 50 kHz to 100		μV	Fluke Automated			
Electrical	kHz)	33 mV to 330 mV	2 1/1/1 + 70 1/	Elula 5522 A Manuela atauan	HCP-060	E1 E2	EO
Electrical	Equipment to Measure AC	33 m v to 330 m v	$2 \text{ mV/V} + 70 \mu\text{V}$	Fluke 5522A Manufacturer Fluke Automated	HCP-000	F1, F3	F, O
	Voltage (@ 100 kHz to 500 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	0.3 mV/V + 50	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
Electrical	Voltage (@ 10 Hz to 45 Hz)	0.55 7 10 5.5 7	uV	Fluke Automated	1101 000	11,13	1,0
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	0.15 mV/V + 60	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 10 kHz)		μV	Fluke Automated		,	1
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	0.19 mV/V + 60	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 kHz to 20		μV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	0.3 mV/V + 50	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 20 kHz to 50		μV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	0.7 mV/V + 0.13	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 50 kHz to 100		mV	Fluke Automated			
	kHz)						





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Contact Name: Rey Feliz Phone: 602-684-0313

FIELD OF	MEASURED	RANGE	EXPANDED	CALIBRATION	CALIBRATION	FLEX	LOCATION
CALIBRATION	INSTRUMENT,	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT AND	MEASUREMENT	CODE	OF ACTIVITY
	QUANTITY OR GAUGE	WHERE APPROPRIATE)	UNCERTAINTY (±) 1	REFERENCE	METHOD OR		
			` '	STANDARDS USED	PROCEDURES USED		
Electrical	Equipment to Measure AC	0.33 V to 3.3 V	2.4 mV/V + 0.6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 100 kHz to 500		mV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	3.3 V to 33 V	0.3 mV/V + 0.65	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 Hz to 45 Hz)		mV	Fluke Automated			
Electrical	Equipment to Measure AC	3.3 V to 33 V	0.15 mV/V + 0.6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 10 kHz)		mV	Fluke Automated			
Electrical	Equipment to Measure AC	3.3 V to 33 V	0.24 mV/V + 0.6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 kHz to 20		mV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	3.3 V to 33 V	0.35 mV/V + 0.6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 20 kHz to 50		mV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	3.3 V to 33 V	0.9 mV/V + 1.6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 50 kHz to 100	/ -	mV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	33 V to 330 V	0.19 mV/V + 2	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 1 kHz)		mV	Fluke Automated			
Electrical	Equipment to Measure AC	33 V to 330 V	0.2 mV/V + 6 mV	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 1 kHz to 10 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	33 V to 330 V	0.25 mV/V + 6	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 10 kHz to 20		mV	Fluke Automated			
	kHz)						
Electrical	Equipment to Measure AC	33 V to 330 V	0.3 mV/V + 6 mV	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 20 kHz to 50			Fluke Automated			
	kHz)						





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Contact Name: Rey Feliz Phone: 602-684-0313

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
Electrical	Equipment to Measure AC	33 V to 330 V	2 mV/V + 50 mV	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 50 kHz to 100 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	330 V to 1 020 V	3 mV/V + 10 mV	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Voltage (@ 45 Hz to 10 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	29 μA to 330 μA	1.25 mA/A + 0.1	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)		μΑ	Fluke Automated			
Electrical	Equipment to Measure AC	0.33 mA to 3.3 mA	1 mA/A + 0.15	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)		μΑ	Fluke Automated			
Electrical	Equipment to Measure AC	3.3 mA to 33 mA	$0.4 \text{ mA/A} + 2 \mu\text{A}$	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	33 mA to 330 mA	0.4 mA/A + 20	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)		μΑ	Fluke Automated			
Electrical	Equipment to Measure AC	0.33 A to 1.1 A	0.5 mA/A + 0.1	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)	<u> </u>	mA	Fluke Automated			
Electrical	Equipment to Measure AC	1.1 A to 3 A	0.6 mA/A + 0.1	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)		mA	Fluke Automated			
Electrical	Equipment to Measure AC	3 A to 11 A	1 mA/A + 2 mA	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 45 Hz to 1 kHz)			Fluke Automated			
Electrical	Equipment to Measure AC	3 A to 11 A	30 mA/A + 2 mA	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Current (@ 1 kHz to 5 kHz)			Fluke Automated			
Electrical	Equipment to Measure	1.1 nF to 3.3 nF	0.5 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Capacitance		+ 10 pF	Fluke Automated			
Electrical	Equipment to Measure	3.3 nF to 0.33 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Capacitance		+ 30 pF	Fluke Automated			
Electrical	Equipment to Measure	0.33 μF to 1.1 μF	0.25 % of reading	Fluke 5522A Manufacturer	HCP-060	F1, F3	F, O
	Capacitance		+ 1 nF	Fluke Automated			





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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
Electrical	Equipment to Measure Capacitance	1.1 μF to 3.3 μF	0.25 % of reading + 3 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 μF to 11 μF	0.25 % of reading + 10 nF	Fluke 5522A Manufacturer Fluke Automated	HCP-060	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C (Res. = 0.1° C)	0.27 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30° C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C (Res. = 0.1° C)	0.17 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C (Res. = 0.1° C)	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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171 Doty Circle, West Springfield, MA 01089
793 West Center Street, West Bridgewater, MA 06074
Contact Name: Rey Feliz Phone: 602-684-0313

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
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C (Res. = 0.1° C)	0.33 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25°C (Res. = 0.1° C)	0.18 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C (Res. = 0.1° C)	0.16 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C (Res. = 0.1° C)	0.26 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C (Res. = 0.1° C)	0.4 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C (Res. = 0.1° C)	0.47 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C (Res. = 0.1° C)	0.36 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C (Res. = 0.1° C)	0.37 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C (Res. = 0.1° C)	0.14 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	100 °C to 400 °C	0.10 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 / 100 Ω RTD	630 °C to 800 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	-200 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	300 °C to 400 °C	0.1 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3926 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-200 °C to -190 °C	0.25 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	-190 °C to 0 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	0 °C to 100 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	100 °C to 260 °C	0.07 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	300 °C to 400 °C	0.09 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 3916 100 Ω	400 °C to 630 °C	0.23 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	-200 °C to 0 °C	0.03 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	0 °C to 100 °C	0.04 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	100 °C to 260 °C	0.05 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD 385 1 kΩ	260 °C to 300 °C	0.06 °C	Fluke 5522A Electrical Simulation of Thermocouple Output	HCP-053	F1, F3	F, O





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	QUANTITY OR GAUGE	WHERE APPROPRIATE)	UNCERTAINTY (±) ¹	REFERENCE STANDARDS USED	METHOD OR PROCEDURES USED		
Electrical	Temperature Calibration,	300 °C to 630 °C	0.23 °C	Fluke 5522A	HCP-053	F1, F3	F, O
	Indication and Control			Electrical Simulation of			
	Equipment used with RTD 385 1 kΩ			Thermocouple Output			
Thermodynamic	Equipment to Measure Humidity (RH)	10 % RH to 95 % RH	2.2 % RH	Saturated Salts Std's	HCP-087	F1, F3	F, O
Thermodynamic	Infrared Thermometers	-10 °C to 150 °C	2.4 °C	Omega BB701	HCP-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	1 mg to 120 g (Res. = 0.000 1 g)	0.57 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Analytical Balances	10 mg to 620 g (Res. = 0.001 g)	1.1 mg	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	100 mg to 1 200 g (Res. = 0.01 g)	0.12 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Precision Balances	1 g to 10 kg (Res. =0.1 g)	0.58 g	ASTM E617 Class 1 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 10 lb (Res. = 0.001 lb)	0.0 014 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Bench	0.1 lb to 100 lb (Res. = 0.01 lb)	0.0 086 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	1 lb to 500 lb (Res. = 0.05 lb)	0.03 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Scale Floor	2.5 lb to 5 000 lb (Res. = 0.5 lb)	0.29 lb	ASTM E617 Class 6 Weights	HCP-011	F1, F3	F, O
Mass, Force, and Weighing Devices	Weights	0.25 mg to 250 g	0.064 mg	Master Weight Scale Mastered with Master Weights	HCP-027	F1, F3	F





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Mass, Force, and Weighing Devices	Weights	250 g to 6 000 g	0.025 g	Master Weight Scale Mastered with Master Weights	HCP-027	F1, F3	F
Mass, Force, and Weighing Devices	Weights	6 000 g to 31 000 g	0.16 g	Master Weight Scale Mastered with Master Weights	HCP-027 ASTM E617	F1, F2, F3	F
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.12 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 1 000 lbf	0.001 1 lbf/lbf + 0.041 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	1 000 lbf to 10 000 lbf	0.001 1 lbf/lbf + 1.3 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages	10 000 lbf to 50 000 lbf	0.002 3 lbf/lbf + 1 lbf	Futek Load Cell	HCP-090	F1, F3	F, O
Chemical	Equipment to Measure pH	4 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	7 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure pH	10 pH	0.03 pH	NIST Traceable Calibration Solution	HCP-104	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	23 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	447 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O

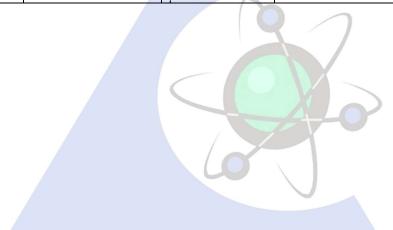




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Chemical	Equipment to Measure Conductivity	1 411 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O
Chemical	Equipment to Measure Conductivity	2 070 μS/cm	2.5 μS/cm + 0.88 % of Reading μS/cm	NIST Traceable Calibration Solution	HCP-103	F1, F3	F, O







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

171 Doty Circle, West Springfield, MA 01089

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Mechanical	Pressure Gage	103.4 kPa to 103.4 MPa	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Pressure Gage	-14.5 psi to 15 000 psi	0.06 psi + 0.22 % of reading	Dead Weight Tester Druck DPI 611	HCP-041	F1, F3	F, O
Mechanical	Equipment to Measure Torque	32 ozf•in to 320 ozf•in	0.94 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	20 lbf•in to 60 lbf•in	0.55 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	60 lbf•in to 200 lbf•in	0.68 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	16 lbf•ft to 500 lbf•ft	0.64 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Equipment to Measure Torque	500 lbf•ft to 1 400 lbf•ft	1.3 % of reading	Torque Calibrator	HCP-026	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	61.2 HRA (Low)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	71.6 HRA (Middle)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRA)	82.3 HRA (High)	1.9 HRA	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	55.5 HRBW (Low)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	68.5 HRBW (Middle)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O
Mechanical	Hardness Testers (HRBW)	95.2 HRBW (High)	1.9 HRBW	Certified NIST SRM Hardness Blocks	HCP-097	F1, F3	F, O





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Mechanical	Hardness Testers	28.6 HRC	1.9 HRC	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HRC)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	50.2 HRC	1.9 HRC	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HRC)	(Middle)		Hardness Blocks			
Mechanical	Hardness Testers	62.8 HRC	1.9 HRC	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HRC)	(High)		Hardness Blocks			
Mechanical	Hardness Testers	70.9 HR15N	1.9 HR15N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR15N)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	91.3 HR15N	1.9 HR15N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR15N)	(High)		Hardness Blocks			
Mechanical	Hardness Testers	74.7 HR15TW	1.9 HR15TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR15TW)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	88.5 HR15TW	1.9 HR15TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR15TW)	(High)		Hardness Blocks			
Mechanical	Hardness Testers	43.0 HR30N	1.9 HR30N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR30N)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	81.2 HR30N	1.9 HR30N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR30N)	(High)		Hardness Blocks			
Mechanical	Hardness Testers	55.6 HR30TW	1.9 HR30TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR30TW)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	76.5 HR30TW	1.9 HR30TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR30TW)	(High)		Hardness Blocks			
Mechanical	Hardness Testers	26.9 HR45N	1.9 HR45N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR45N)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	69.2 HR45N	1.9 HR45N	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR45N)	(High)		Hardness Blocks			





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Mechanical	Hardness Testers	31.4 HR45TW	1.9 HR45TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR45TW)	(Low)		Hardness Blocks			
Mechanical	Hardness Testers	56.4 HR45TW	1.9 HR45TW	Certified NIST SRM	HCP-097	F1, F3	F, O
	(HR45TW)	(High)		Hardness Blocks			
Mass, Force, and Weighing Devices	Force Measuring Gages	Up to 200 lbf	0.1174 lbf	Hanging Weights	HCP-090	F1, F3	F, O
Dimensional	Gage Blocks	0.01 in to 20 in	1.5 μin/in + 6.5 μin	Federal Comparator Master Gage Blocks	HCP-030	F1, F3	F, O
Dimensional	Ring Gages	0.04 in to 20 in	17 μin + 0.7 μin/in	P&W Lab Master Mastered with Master Gage Blocks and Master Ring Gage	HCP-017	F1, F3	F, O
Dimensional	Surface Finish Patches	1 μin to 1 000 μin	2 μin	Profilometer SJ-410	HCP-015	F1, F3	F, O
Dimensional	Profilometers	1 μin to 1 000 μin	4 μin	Calibrated Surface Finish Patch	HCP-025	F1, F3	F, O
Dimensional	Micrometers	1 mm to 1 016 mm	$(1.2 + 0.2L) \mu m$	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 40 in	(48 + 7.9L) μin	Gage Blocks	HCP-003	F1, F3	F, O
Dimensional	Calipers	1 mm to 2 032 mm	$(13 + 0.3L) \mu m$	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Calipers	0.05 in to 80 in	(520 + 3.9L) μin	Gage Blocks	HCP-001	F1, F3	F, O
Dimensional	Indicators	Up to 50 mm (Res. 0.000 5 mm)	1 μm	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Indicators	Up to 2 in (Res. 0.000 01 in)	40 μin	Digital Micrometer Head	HCP-002	F1, F3	F, O
Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 4-4	(96 + 1.3L) μin	Super Micrometer Mastered with Gage Blocks and Thread Wires	HCP-016	F1, F3	F





Aldinger Company dba Holts Precision

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necreation is granted to the factory to perform the following conformity assessment derivates.							
FIELD OF	MEASURED	RANGE	EXPANDED	CALIBRATION	CALIBRATION	FLEX	LOCATION
CALIBRATION	INSTRUMENT,	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT AND	MEASUREMENT	CODE	OF
	QUANTITY OR GAUGE	WHERE	UNCERTAINTY (±) 1	REFERENCE	METHOD OR		ACTIVITY
		APPROPRIATE)	()	STANDARDS USED	PROCEDURES USED		
Dimensional	Thread Plug Gage	M 1.6 x 0.35 to M	$(2.4 + 0.03L) \mu m$	Super Micrometer Mastered	HCP-016	F1, F3	F
	(Pitch Diameter)	100 x 6		with Gage Blocks and			
				Thread Wires			
Dimensional	Thread Plug Gage	0-80 to 4-4	$(32 + 1.9L) \mu in$	Super Micrometer Mastered	HCP-016	F1, F3	F
	(Major Diameter)			with Gage Blocks			
Dimensional	Thread Plug Gage	M 1.6 x 0.35 to M	$(0.81 + 0.05L) \mu m$	Super Micrometer Mastered	HCP-016	F1, F3	F
	(Major Diameter)	100 x 6		with Gage Blocks			
Dimensional	Plug Gages	0.001 in to 12 in	31 μin + 1.6 μin/in	Super Micrometer Mastered	HCP-014	F1, F3	F
				with Gage Blocks			
Dimensional	Plug Gages	0.254 mm to 304.8	$(0.79 + 0.04L) \mu m$	Super Micrometer Mastered	HCP-014	F1, F3	F
		mm		with Gage Blocks			





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

- 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.