PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

CMM Calibration and Services

3419 Lonergan Drive, Rockford, IL 61109

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, Electrical, Mechanical, Thermodynamic, Mass, Force & Weighing Devices Calibration

(As detailed in the supplement)

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

For PJLA:

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:*
October 07, 2002	July 31, 2025	November 30, 2027

Accreditation No.:	*Certificate No.:*
59085	L25-582

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

CMM Calibration and Services

3419 Lonergan Drive, Rockford, IL 61109
Contact Name: Kim Kirkpatcik Phone: 815-874-2153

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	1, 2, 3 Blocks	1 in to 3 in	(40 + 2.7L) µin	Gage Blocks, Surface Plate, Electronic Amp & Height Gage	T.O.33K6-4-731-1	F1, F2	F
Dimensional	Gage Blocks (Angle)	0.25° to 45°	0.008°	Angle Blocks/ Sine Plate, Electronic Amp, & Surface Plate	NAVAIR 17-20MD-78	F1, F2	F
Dimensional	Calipers	0.001 in to 72 in	(397.8 + 30.2L) µin	Gage Blocks, Cylindrical Rings & Surface Plate	T.O. 33K6-4-552-1	F1, F2	F, O
Dimensional	Caliper Checker	1 in to 72 in	(14 + 6L) µin	Gage Blocks, Electronic Amp & Surface Plate	T.O. 33K6-4-1184-1	F1, F2	F, O
Dimensional	CMM Calibration and Inspection Volumetric Performance	16 in to 40 in (80 % of CMM Shortest Axis for Ball Bar Length)	150 µin	Ball Bar and Step Gage, Gage Blocks, Laser	ASME B89.4.1 ISO10360	F1, F2	F, O
Dimensional	(CNC) CMM Linear Displacement Accuracy (X-Axis)	0.001 m to 80 m	(1 + 1.9L) µm	Laser, Gage Blocks, Step Gage	ASME B89.4.1 ISO10360	F1, F2	O
Dimensional	(CNC) CMM Linear Displacement Accuracy (Y-Axis)	0.001 m to 80 m	(1 + 1.9L) µm	Laser, Gage Blocks, Step Gage	ASME B89.4.1 ISO10360	F1, F2	O
Dimensional	(CNC) CMM Linear Displacement Accuracy (Z-Axis)	0.001 m to 80 m	(1 + 1.9L) µm	Laser, Gage Blocks, Step Gage	ASME B89.4.1 ISO10360	F1, F2	O
Dimensional	Dial Bore Gage	0.14 in to 10 in	(103 + 35L) µin	Gage Blocks w/ Accessories & UMM/Bench Mic	T.O. 33K6-4-992-1	F1, F2	F
Dimensional	Dial Indicator Calibrator	0.005 in to 1 in	(40 + 2L) µin	Surface Plate, Electronic Indicator, Gage Blocks Optical Flat	TO 33K6-4-2072-1	F1, F2	F
Dimensional	Dial Sink/Counterbore Gage	0.1 in to 1 in	180 µin	Gage Blocks, Surface Plate, Ring Gage	T.O. 33K6-4-2732-1	F1, F2	F, O

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Dimensional	Gage Ball	0.05 in to 1 in	22 µin	UMM/Bench Mic, Gage Blocks	T.O. 33K6-4-1181-1	F1, F2	F
Dimensional	Gage Blocks, Steel Gage Blocks, TC/CC/Ceramic	0.005 in to 4 in	(4.4 + 1L) µin	Labmaster/Mahr UMM, Gage Blocks, Optical Flat Temperature & Humidity Data Logger	NAVAIR 17-20MD-185	F1, F2	F
Dimensional	Gage Blocks, Steel Gage Blocks, TC/CC/Ceramic	5 in to 10 in	(9 + 5L) µin	Labmaster/Mahr UMM, Gage Blocks, Optical Flat Temperature & Humidity Data Logger	NAVAIR 17-20MD-185	F1, F2	F
Dimensional	Gage Blocks, Steel Gage Blocks, TC/CC/Ceramic	12 in to 20 in	(17 + 5L) µin	Labmaster/Mahr UMM, Gage Blocks, Optical Flat Temperature & Humidity Data Logger	NAVAIR 17-20MD-185	F1, F2	F
Dimensional	Granite Surface Plates (Flatness)	12 in to 36 in (Diagonal)	47 µin	Planekator, Autocollimator & Repeat Reading Gage	T.O. 33K6-4-33-1	F1, F2	F, O
Dimensional	Granite Surface Plates (Flatness)	36 in to 54 in (Diagonal)	55 µin	Planekator, Autocollimator & Repeat Reading Gage	T.O. 33K6-4-33-1	F1, F2	F, O
Dimensional	Height Gage	0.05 in to 4 in	580 µin	Gage Blocks, Surface Plate & Repeat Reading Gage	T.O. 33K6-4-1626-1	F1, F2	F, O
Dimensional	Height Gage	4 in to 36 in	610 µin	Gage Blocks, Surface Plate & Repeat Reading Gage	T.O. 33K6-4-1626-1	F1, F2	F, O
Dimensional	Height Master	0.5 in to 48 in	(86 + 5L) µin	Electronic Amp, Gage Blocks, Master Level	NAVAIR 17-20MD-26	F1, F2	F
Dimensional	Indicator	0.001 in to 1 in	70 µin	Indicator Calibrator	T.O. 33K6-4-889-1	F1, F2	F, O

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Dimensional	Indicator	0.000 15 in to 4 in	590 µin	UMM/Bench Mic Gage Blocks & Surface Plate	T.O. 33K6-4-889-1	F1, F2	F, O
Dimensional	Inside Micrometer	1.5 in to 60 in	(110 + 21L) µin	Gage Blocks, UMM/Bench Mic, V-Block, Angle Plate & Optical Flat	NAVAIR 17-20-MD-09	F1, F2	F
Dimensional	Intramic/ Bore Mic	0.2 in to 6 in	(95 + 5L) µin	Master Setting Rings Rings & Surface Plate	NAVAIT 17-20MD-142	F1, F2	F, O
Dimensional	Kalmaster	0.3 in to 12 in	(42 +5L) µin	Gage Blocks, Electronic Amp & Surface Plate	T.O. 33K6-4-1184-1	F1, F2	F
Dimensional	Length Standards	1 in to 60 in	(33 + 2.2L) µin	UMM/Bench Mic, Gage Blocks, Surface Plate, V-Blocks & Electronic Amp	NAVAIR 17-20MD-76	F1, F2	F
Dimensional	Levels	14 in (Maximum)	150 µin	Gage Blocks, Granite Surface Plate, Master Level, Straight Edge, Indicator, Height Gage & Sine Plate	NAVAIR 17-20MD-10	F1, F2	F
Dimensional	Mic Master (Outer Diameter)	0.5 in to 10 in	(28 + 5L) µin	Gage Blocks, Electronic Amp, Electronic Height Gage & Surface Plate	T.O. 33K6-4-1183-1	F1, F2	F
Dimensional	Micrometer Head	0.05 in to 1 in	(57 + 9L) µin	Gage Blocks, Optical Flat, Surface Plate & V-Block	T.O. 33K6-4-15-1	F1, F2	F
Dimensional	Micrometer (Outer Diameter)	0.05 in to 24 in	(57 + 5.3L) µin	Gage Blocks, Optical Flat, Surface Plate & V-Block	T.O. 33K6-4-15-1	F1, F2	F, O
Dimensional	Optical Comparators (Linear)	12 in (Maximum)	350 µin	Glass Artifact, Stage Fixture, Test Indicator, & Steel Square	NAVAIR 17-20MD-63	F1, F2	F, O
Dimensional	Optical Comparators (Angular)	1° to 360°	0.1°	Glass Artifact & Steel Rule	NAVAIR 17-20MD-63	F1, F2	F, O
Dimensional	Optical Comparators (Magnification)	10X	0.04 %	Magnification Checker	NAVAIR 17-20MD-63	F1, F2	F, O

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Dimensional	Optical Comparators (Magnification)	20X	0.025 %	Magnification Checker	NAVAIR 17-20MD-63	F1, F2	F, O
Dimensional	Optical Comparators (Magnification)	50X	0.015 %	Magnification Checker	NAVAIR 17-20MD-63	F1, F2	F, O
Dimensional	Parallels	1 in to 48 in	(35 + 4L) µin	Gage Blocks, Electronic Amp, Electronic Height Gage, Angle Plate, Repeat Reading Gage & Surface Plate	T.O. 33K6-4-731-1	F1, F2	F
Dimensional	Plain Ring Gages	0.01 in to 10 in	(3.3 + 6.4L) µin	UMM/ID Comparator Gage Block Set, Gage Block Accessory Kit & Plain Ring Gage	T.O. 33K6-4-2-1	F1, F2	F, O
Dimensional	Plain Plug Gages	0.04 in to 14 in	(28 + 5L) µin	Umm/Bench Mic and Gage Blocks	NAVAIR 17-20MD-39	F1, F2	O
Dimensional	Protractor	0.25° to 90°	0.1°	Angle Blocks	TB 9-5210-215-24 US ARMY T.O. 33K6-4-511-1	F1, F2	F
Dimensional	Radius Gages	0.01 in to 1 in	750 µin	Optical Comparator	B-I006P153	F1, F2	F
Dimensional	Repeat-o-Meter	0.002 in	33 µin	Indicator Calibrator, Gage Blocks, Surface Plate & UMM/Bench Mic	T.O. 33K6-4-889-1	F1, F2	F
Dimensional	Sine Bar/ Plate	2 in to 10 in	230 µin	Gage Blocks, Electronic Amp, Height Gage, Indicator, Angle Blocks, Repeat Reading Gage &Surface Plate	T.O. 33K6-4-120-1	F1, F2	F
Dimensional	Steel Rule	72 in	0.027 in	Caliper, Stage Micrometer & Surface Plate	CPOO266	F1, F2	F
Dimensional	Bench mic	0.001 in to10 in	(29 + 4.7L) µin	Gage Blocks, Force Gage, Optical Parallel, Precision Sphere	T.O. 33K6-4-981-1	F1, F2	F, O

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Dimensional	Surface Finish (R_a)	10 µin to 120 µin	2.9 µin	Surface Finish Analyzer	INT-19.3/ NISTIR 89-4088	F1, F2	F, O
Dimensional	Squares	12 in (Maximum)	470 µin	Indy Square, Master Square, Surface Plate, Gage Block, Height Gage & Electronic Amp	T.O. 33K6-4-157-1	F1, F2	F, O
Dimensional	Squares	12 in to 24 in	860 µin	Indy Square, Master Square, Surface Plate, Gage Block, Height Gage & Electronic Amp	T.O. 33K6-4-157-1	F1, F2	F, O
Dimensional	Taper Thread Ring (Pitch Diameter)	1/8-27 to 2 1/2-11	380 µin	Master Taper Plug, Gage Blocks Electronic Amplifier, Height Gage, Indicator, Surface Plate & Optical Comparator	NAVAIR 17-20MD-149	F1, F2	F
Dimensional	Taper Thread Ring (Pitch Diameter)	1/8-27 to 4-8	240 µin	Master Taper Plug, Gage Blocks Electronic Amplifier, Height Gage, Indicator, Surface Plate & Optical Comparator	NAVAIR 17-20MD-149	F1, F2	F
Dimensional	Thickness / Feeler Gages	0.001 in to 1 in	(62 + 28L) µin	UMM/Bench Mic Gage Blocks, Surface Plate, Indicator	NAVAIR 17-20MD-15	F1, F2	F, O
Dimensional	Thread Measuring Wires	0.005 in to 0.25 in	(19 + 8D) µin	UMM/Bench Mic, Gage Blocks, Plug Gage	T.O. 33K-4-119-1	F1, F2	F, O
Dimensional	Thread Plug Gages (Pitch Diameter)	0-80 to 6 1/4-16	(95.82 + 7.42L) µin	UMM/Bench Mic, Gage Blocks, Optical Comparator, Electronic Amp & Thread Measuring Wires	NAVAIR 17-20-MD-141	F1, F2	F
Dimensional	Thread Ring Gages	0-80 to 2 1/2-12	(95.82 + 7.52L) µin	Truncated Thread Setting Plug, Plug Gage, V-Block, Electronic Amp & Surface Plate	NAVAIR 17-20MD-143	F1, F2	F, O

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Dimensional	V Blocks	1 in to 8 in	(46 + 6L) µin	Gage Block with Accessories, Electronic Amp, Surface Plate, Height Gage, Plug Gage, & Angle Plate	T.O. 33K6-4-553-1	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 32.999 mV	6 µV + 0.08 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 32.999 mV	6 µV + 0.015 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 32.999 mV	6 µV + 0.02 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 32.999 mV	6 µV + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 32.999 mV	12 µV + 0.35 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 32.999 mV	50 µV + 0.8 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 329.999 mV	8 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 329.999 mV	8 µV + 0.014 5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 329.999 mV	8 µV + 0.016 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 329.999 mV	8 µV + 0.035 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 329.999 mV	32 µV + 0.08 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 329.999 mV	70 µV + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.299 V	50 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.299 V	60 µV + 0.015 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.299 V	60 µV + 0.019 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.299 V	50 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.299 V	125 µV + 0.07 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.299 V	600 µV + 0.24 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 32.999 V	650 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 32.999 V	650 µV + 0.015 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 32.999 V	650 µV + 0.024 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 32.999 V	650 µV + 0.035 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 32.999 V	1 600 µV + 0.09 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 329.999 V	2 000 µV + 0.015 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 329.999 V	6 000 µV + 0.02 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 329.999 V	6 000 µV + 0.025 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 329.999 V	6 000 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 329.999 V	50 000 µV + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	300 V to 1 020 V	10 000 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	300 V to 1 020 V	10 000 µV + 0.025 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	300 V to 1 020 V	10 000 µV + 0.03 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	29 µA to 329.99 µA	0.1 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	29 µA to 329.99 µA	0.1 µA + 0.15 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 µA to 329.99 µA	0.1 µA + 0.125 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	29 µA to 329.99 µA	0.15 µA + 0.3 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	29 µA to 329.99 µA	0.2 µA + 0.8 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	29 µA to 329.99 µA	0.4 µA + 1.6 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.299 mA	0.15 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.299 mA	0.15 µA + 0.125 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.299 mA	0.15 µA + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.299 mA	0.2 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.299 mA	0.3 µA + 0.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	0.33 mA to 3.299 mA	0.6 µA + 1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 32.999 mA	2 µA + 0.18 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 32.999 mA	2 µA + 0.09 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 32.999 mA	2 µA + 0.04 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 32.999 mA	2 µA + 0.08 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 32.999 mA	3 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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CMM Calibration and Services

3419 Lonergan Drive, Rockford, IL 61109
Contact Name: Kim Kirkpatcik Phone: 815-874-2153

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Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 32.999 mA	4 µA + 0.4 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	33 mA to 329.999 mA	20 µA + 0.18 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	33 mA to 329.999 mA	20 µA + 0.09 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 329.999 mA	20 µA + 0.04 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	33 mA to 329.999 mA	50 µA + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	33 mA to 329.999 mA	100 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	33 mA to 329.999 mA	200 µA + 0.4 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.33 A to 1.099 99 A	100 µA + 0.18 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 1.099 99 A	100 µA + 0.05 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 A to 1.099 99 A	1 000 µA + 0.6 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 A to 1.099 99 A	5 000 µA + 2.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	1.1 A to 2.999 99 A	100 µA + 0.18 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 2.999 99 A	100 µA + 0.06 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	1.1 A to 2.999 99 A	1 000 µA + 0.6 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	1.1 A to 2.999 99 A	5 000 µA + 2.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	3 A to 10.999 A	2 000 µA + 0.06 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	3 A to 10.999 A	2 000 µA + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 10.999 A	2 000 µA + 3 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	11 A to 20.5 A	5 000 µA + 0.12 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	11 A to 20.5 A	5 000 µA + 0.15 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	11 A to 20.5 A	5 000 µA + 3 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 100 Hz)	29 µA to 329 99 µA	0.2 µA + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	29 µA to 329 99 µA	0.5 µA + 0.6 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 100 Hz)	0.33 mA to 3.299 9 mA	0.3 µA + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	0.33 mA to 3.299 9 mA	0.8 µA + 0.6 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 500 Hz to 1 kHz)	0.33 mA to 3.299 9 mA	0.15 µA + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 100 Hz)	33 mA to 329.99 mA	40 µA + 0.08 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	33 mA to 329.99 mA	100 µA + 0.2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 100 Hz)	33 mA to 329.99 mA	200 µA + 0.12 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 440 Hz)	33 mA to 329.99 mA	1 000 µA + 0.3 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 10 Hz to 100 Hz)	3 A to 20.5 A	2 000 µA + 0.12 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	3 A to 20.5 A	5 000 µA + 1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	3 µV to 329.999 9 mV	1 µV + 0.002 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	6 µV to 3.299 99 V	2 µV + 0.001 1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	60 µV to 32.999 9 V	20 µV + 0.001 2 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	30 V to 329.999 9 V	150 µV + 0.001 8 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	100 V to 1.02 kV	1 500 µV + 0.001 8 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.006 µA to 329.999 µA	0.002 µA + 0.015 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.015 µA to 32.999 9 mA	0.005 µA + 0.01 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.075 µA to to 329.999 mA	0.025 µA + 0.01 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	7.5 µA to 329.999 mA	2.5 µA + 0.01 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	120.1 µA to 1.099 99 A	40 µA + 0.02 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 2.999 99 A	40 µA + 0.038 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1.5 mA to 10.999 99 A	500 µA + 0.05 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure DC Current	11 A to 20.5 A	750 µA + 0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.19 nF to 0.399 9 nF	0.01 nF + 0.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.4 nF to 1.099 9 nF	0.01 nF + 0.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.299 9 nF	0.01 nF + 0.5 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 10.999 nF	0.01 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 nF to 32.999 nF	0.1 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 109.99 nF	0.1 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 nF to 329.99 nF	0.3 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 µF to 1.099 99 µF	1 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 µF to 3.299 99 µF	3 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 µF to 10.999 9 µF	10 nF + 0.25 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 µF to 32.999 9 µF	30 nF + 0.4 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 µF to 109.999 µF	100 nF + 0.45 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 µF to 329.999 µF	300 nF + 0.45 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 µF to 1.099 99 mF	1 µF + 0.45 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure Capacitance	1.1 mF to 3.299 9 mF	3 µF + 0.45 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 mF to 10.999 9 mF	10 µF + 0.45 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 mF to 32.999 mF	30 µF + 0.75 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 mF to 100 mF	100 µF + 1.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (DC Voltage) (50 Ω)	1 mV to 6.6 V	40 µV + 0.29 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (DC Voltage) (1 MΩ)	1 mV to 130 V	40 µV + 0.054 4 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (AC Voltage) (50 Ω)	1 mV to 6.6 V	40 µV + 0.29 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (AC Voltage) (1 MΩ)	1 mV to 130 V	40 µV + 0.11 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Wave Gen.) (50 Ω)	0.001 8 Vp-p to 2.5 Vp-p	100 µV + 0.346 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Wave Gen.) (1 MΩ)	0.001 8 Vp-p to 55 Vp-p	100 µV + 0.346 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Input Impedance) (Measure)	40 Ω to 60 Ω	0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Input Impedance) (Measure)	0.5 MΩ to 1 MΩ	0.1 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Leveled Sinewave) (@ 50 kHz to 11.1 GHz)	5 mV to 5.5 V	100 µV + 5.07 % of reading	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-250 °C to -100 °C	0.5 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.21 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.23 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.33 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.18 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.4 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.57 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.35 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.33 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.4 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.47 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	250 °C to 1 000 °C	0.36 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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3419 Lonergan Drive, Rockford, IL 61109
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	1 000 °C to 1 400 °C	0.37 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	1 400 °C to 1 767 °C	0.46 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.63 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	600 °C to 800 °C	0.44 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	0.34 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	1 000 °C to 1 550 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	1 550 °C to 1 820 °C	0.33 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	0 °C to 150 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	150 °C to 650 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	650 °C to 1 000 °C	0.31 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	1 000 °C to 1 800 °C	0.5 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	1 800 °C to 2 316 °C	0.84 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	-200 °C to -100 °C	0.37 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	-100 °C to 800 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	800 °C to 900 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.4 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-100 °C to -25 °C	0.22 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-25 °C to 120 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	120 °C to 410 °C	0.18 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5520A/SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	Up to 11 Ω	0.27 mΩ + 11 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	11 Ω to 33 Ω	0.64 mΩ + 8 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	33 Ω to 110 Ω	0.44 mΩ + 8.1 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	110 Ω to 330 Ω	0.85 mΩ + 10 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	330 Ω to 1.1 kΩ	2.3 mΩ + 9.6 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	1.1 Ω to 3.3 kΩ	4.7 mΩ + 13 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	3.3 kΩ to 11 kΩ	8.9 mΩ + 12 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	11 kΩ to 33 kΩ	75 mΩ + 12 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	33 kΩ to 110 kΩ	120 mΩ + 12 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	110 kΩ to 330 kΩ	550 mΩ + 13 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	330 kΩ to 1.1 MΩ	1.5 Ω + 12 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O

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Electrical	Equipment to Source Resistance	1.1 MΩ to 3.3 MΩ	8.8 Ω + 24 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	3.3 MΩ to 11 MΩ	290 Ω + 32 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	11 MΩ to 33 MΩ	4.6 kΩ + 58 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	33 MΩ to 110 MΩ	46 kΩ + 48 μΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	110 MΩ to 330 MΩ	1.7 MΩ + 0.18 mΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Source Resistance	330 MΩ to 1.1 GΩ	7.3 MΩ + 2.2 mΩ/Ω	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	45 Hz to 120 Hz	0.11 mHz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	120 Hz to 1.2 kHz	0.98 mHz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	1.2 kHz to 12 kHz	9.3 mHz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	12 kHz to 120 kHz	93 mHz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	120 kHz to 1.2 MHz	0.93 Hz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Source Frequency	1.2 MHz to 2 MHz	1.7 Hz	Fluke 5520A/ SC600	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque	5 in•oz to 50 in•oz	0.5 % of reading	CDI 5000ST	T.O 33K6-4-450-1	F1, F2	F, O
Mechanical	Torque	4 in•lb to 50 in•lb	0.5 % of reading	CDI 5000ST	T.O 33K6-4-450-1	F1, F2	F, O
Mechanical	Torque	30 in•lb to 400 in•lb	0.5 % of reading	CDI 5000ST	TB 9-5120-202-24	F1, F2	F, O
Mechanical	Torque	80 in•lb to 1 000 in•lb	0.5 % of reading	CDI 5000ST	TB 9-5120-202-24	F1, F2	F, O
Mechanical	Torque	20 ft•lb to 250 ft•lb	0.5 % of reading	CDI 5000ST	TB 9-5120-202-24	F1, F2	F, O

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Mechanical	Torque	100 ft•lb to 1 000 ft•lb	0.7 % of reading	AWS Model ITF 1000	TB 9-5120-202-24	F1, F2	F
Mechanical	Pressure Gage	20 psi to 2 000 psi	(2.58 x 10^{-1} + 5.11x 10^{-4}P) psi	Nitropak Nitrogen Calibration Source & Digital Test Gage	NAVAIR 17-20MP-165	F1, F2	F, O
Mechanical	Pressure Gage	1 500 psi to 7 000 psi	0.17 psi + 0.011 % of reading	Dead Weight Tester Digital Test Gage	NAVAIR 17-20MP-165	F1, F2	F, O
Mechanical	Pressure Gage	7 000 psi to 15 000 psi	0.17 psi + 0.013 % of reading	Dead Weight Tester Digital Test Gage	NAVAIR 17-20MP-165	F1, F2	F, O
Mechanical	Indirect Verification of Vickers Hardness	220 HV to 720 HV	13 HV	Master Test Blocks, Stage, Micrometer/ Microscope	ASTM E384	F1, F2	F, O
Mechanical	Indirect Verification of Knoop Hardness	220 HK to 500 HK	15 HK	Master Test Blocks, Stage, Micrometer/ Microscope	ASTM E384	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRA)	20 HRA to 65 HRA	1.3 HRA	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRA)	70 HRA to 78 HRA	1.3 HRA	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRA)	80 HRA to 84 HRA	1.3 HRA	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRBW)	40 HRBW to 59 HRBW	1.5 HRBW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRBW)	60 HRBW to 79 HRBW	1.5 HRBW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRBW)	80 HRBW to 100 HRBW	1.4 HRBW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O

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Mechanical	Indirect Verification of Rockwell Hardness (HRC)	20 HRC to 30 HRC	1.3 HRC	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRC)	35 HRC to 55 HRC	1.3 HRC	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HRC)	60 HRC to 65 HRC	0.78 HRC	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR15N)	70 HR15N to 77 HR15N	1.4 HR15N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR15N)	78 HR15N to 88 HR15N	1.4 HR15N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR15N)	90 HR15N to 92 HR15N	1.1 HR15N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR45N)	20 HR15N to 31 HR45N	1.5 HR45N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR45N)	37 HR15N to 61 HR45N	1.5 HR45N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR45N)	66 HR15N to 72 HR45N	1.1 HR45N	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR30TW)	43 HR30TW to 56 HR30TW	1.5 HR30TW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O

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Mechanical	Indirect Verification of Rockwell Hardness (HR30TW)	57 HR30TW to 69 HR30TW	1.5 HR30TW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness (HR30TW)	70 HR30TW to 83 HR30TW	1.4 HR30TW	Certified Test Blocks	ASTM E18-08a	F1, F2	F, O
Mass, Force, and Weighing Devices	Force Gage	5 lb to 110 lb	0.17 + 2 x 10^{-3}F) lb	Class F Weights, Torque Standard & Fixture	NAVAIR 17-20MF-04	F1, F2	F, O
Mass, Force, and Weighing Devices	Force Gage	1 g to 2 268 g	(77 + 2 x 10^{-3}F) g	Class F Weights, Torque Standard & Fixture	NAVAIR 17-20MF-04	F1, F2	F, O
Mass, Force, and Weighing Devices	Weight Scale	1 g to 1 000 g	(1.13 x 10^{-2} + 5.1 x 10^{-4}Wt) g	Class F Weights	NIST Handbook 44	F1, F2	F, O
Mass, Force, and Weighing Devices	Weight Scale	2.5 lb to 110 lb	(4.55 x 10^{-2} + 4.55 x 10^{-3}Wt) g	Class F Weights	NIST Handbook 44	F1, F2	F, O

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

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

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

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.