



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

**PCI**

**8100 Brownleigh Dr. #100A, Raleigh, NC 27617**

*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 & Weighing Devices,  
Mechanical, Time & Frequency, and Fluid Quantities Calibration  
(As detailed in the supplement)***

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

For PJLA:

*Initial Accreditation Date:*

*Issue Date:*

*Expiration Date:*

September 12, 2011

February 14, 2026

March 31, 2028

*Accreditation No.:*

*Certificate No.:*

54363

L26-118

Tracy Szerszen  
President

*The validity of this certificate is maintained through ongoing assessments based  
on a continuous accreditation cycle. The validity of this certificate should be  
confirmed through the PJLA website: [www.pjlab.com](http://www.pjlab.com)*

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



# Certificate of Accreditation: Supplement

## PCI

8100 Brownleigh Dr., #100A, Raleigh, NC 27617  
 Contact Name: Mark DeRoo Phone: 847-269-8795

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	Conductivity Meters	18.18 M $\Omega$ -cm	0.27 M $\Omega$ -cm	Thornton 200CR w/ 240-201 Conductivity	CCA011 Conductivity Probes	F1, F3	F
Dimensional	Equipment to Measure Length	0.001 in to 0.4 in	28.7 $\mu$ m + 23.5 $\mu$ m/in	Gage Block Set	CCA056 Calibration of Linear Measurement Devices	F1, F3	F, O
Dimensional	Equipment to Measure Length	0.401 in to 1 in	19 $\mu$ m + 47.7 $\mu$ m/in	Gage Block Set	CCA056 Calibration of Linear Measurement Devices	F1, F3	F, O
Dimensional	Equipment to Measure Length	1.001 in to 7 in	8.11 $\mu$ m + 59 $\mu$ m/in	Gage Block Set	CCA056 Calibration of Linear Measurement Devices	F1, F3	F, O
Dimensional	Equipment to Measure Length	7.001 in to 24 in	33.6 $\mu$ m + 60 $\mu$ m/in	Distance Bars	CCA056 Calibration of Linear Measurement Devices	F1, F3	F, O
Dimensional	Calipers	0.01 in to 1 in	0.000 029 in + 0.000 000 19 in/in	Gauge Blocks, Grade 00, Surface Plates	CCA283 Calibration of Caliper Devices	F1, F3	F
Dimensional	Calipers	1.01 in to 7 in	0.000 065 in + 0.000 000 24 in/in	Gauge Blocks, Grade 00, Surface Plates	CCA283 Calibration of Caliper Devices	F1, F3	F
Dimensional	Calipers	7.01 in to 12 in	0.000 055 in + 0.000 001 8 in/in	Gauge Blocks, Grade 00, Surface Plates	CCA283 Calibration of Caliper Devices	F1, F3	F
Dimensional	Calipers	12.01 in to 19 in	0.000 073 in + 0.000 000 20 in/in	Gauge Blocks, Grade 00, Gauge Block, Grade 2 Surface Plates	CCA283 Calibration of Caliper Devices	F1, F3	F
Dimensional	Calipers	19.685 in to 35.433 in	0.000 29 in + 0.000 000 035 13 in/in	Gauge Blocks, Grade 00, Gauge Block, Grade 2 Surface Plates	CCA283 Calibration of Caliper Devices	F1, F3	F



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Dimensional	Height Gauges	Up to 12 in	0.000 29 in + 0.000 000 21 in/in	Gauge Blocks, Grade 00, Gauge Block, Grade 2	CCA284 Calibration of Height Gauges	F1, F3	F
Dimensional	Height Gauges	12.01 in to 19 in	0.000 29 in + 0.000 000 054 in/in	Gauge Blocks, Grade 00, Gauge Block, Grade 2	CCA284 Calibration of Height Gauges	F1, F3	F
Dimensional	Pin Gauges	Up to 1 in	0.000 022 in + 0.000 001 3 in/in	Digital Micrometer	CCA205 Verification of Pin and Plug Gauges	F1, F3	F
Dimensional	Angle Protractors	30 deg to 90 deg	0.014 4 deg + 0.000 000 184 deg/deg of reading	Angle Blocks, Granite Surface Table	CCA281 Calibration of Protractors	F1, F3	F, O
Dimensional	Steel Rulers and Tape Measures	Up to 72 in	0.037 in + 0.000 021 in/in	Master Steel Rule	CCA169 Calibration of Steel Rulers	F1, F3	F
Dimensional	Travel Indicators	Up to 4 in	0.000 58 in + 0.000 000 024 in/in	Gauge Blocks, Grade 00	CCA285 Calibration of Travel Indicators	F1, F3	F
Dimensional	Travel Indicators	4.01 in to 12 in	0.000 58 in + 0.000 000 15 in/in	Gauge Blocks, Grade 00, Gauge Blocks, Grade 2	CCA285 Calibration of Travel Indicators	F1, F3	F
Electrical	Equipment to Measure DC Voltage	0.01 mV to 329.999 9 mV	0.001 3 mV + 0.000 023 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.299 999 V	0.000 58 V + 0.000 005 4 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 32.999 99 V	0.000 62 V + 0.000 005 5 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 329.999 9 V	0.000 32 V + 0.000 021 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 020 V	0.001 7 V + 0.000 021 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	0.000 3 $\mu$ V to 200 mV	0.1 $\mu$ V + 5 $\mu$ V/V	Fluke 8508A Reference	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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				Multimeter			
Electrical	Equipment to Output DC Voltage	200 mV to 2 V	0.4 $\mu$ V + 3.5 $\mu$ V/V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	2 V to 20 V	4 $\mu$ V + 3.5 $\mu$ V/V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	20 V to 200 V	0.04 mV + 5.5 $\mu$ V/V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	200 V to 1 000 V	0.5 mV + 5.5 $\mu$ V/V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	1 000 V to 6 000 V	2 V + 10 mV/V	Fluke 80K-6 HV Probe with 8060A Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.001 $\mu$ A to 329.999 $\mu$ A	0.023 2 $\mu$ A + 0.000 173 $\mu$ A/ $\mu$ A	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 3.299 99 mA	0.000 084 mA + 0.000 11 mA/mA	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 32.999 9 mA	0.000 65 mA + 0.000 11 mA/mA	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	33 mA to 329.999 mA	0.003 mA + 0.000 11 mA/mA	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.33 mA to 1.099 99 mA	0.000 047 A + 0.000 24 A/A	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 2.999 99 A	0.000 041 A + 0.000 45 A/A	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3 A to 10.999 9 A	0.000 83 A + 0.000 56 A/A	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure DC Current	11 A to 20.5 A	0.002 6 A + 0.001 2 A/A	Fluke 5520A Calibrator	CCA033 Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	Up to 20 $\mu$ A	0.000 62 $\mu$ A + 0.000 036 4 $\mu$ V/ $\mu$ V	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	20 $\mu$ A to 200 $\mu$ A	0.000 6 $\mu$ A + 0.000 013 4 $\mu$ V/ $\mu$ V	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	0.200 mA to 2 mA	0.000 006 1 mA + 0.000 012 1 mA/mA	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	2 mA to 20 mA	0.000 06 mA + 0.000 013 2 mA/mA	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	20 mA to 200 mA	0.001 5 mA + 0.000 049 9 mA/mA	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	200 mA to 2 A	0.000 15 A + 0.000 152 A/A	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output DC Current	2 A to 30 A	-0.009 4 A + 0.001 26 A/A	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	0.1 nF to 2 nF	0.001 2 nF + 0.000 169 nF/nF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	2 nF to 20 nF	0.002 9 nF + 0.000 926 nF/nF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Output Capacitance	20 nF to 200 nF	0.015 nF + 0.000 614 nF/nF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	0.2 $\mu$ F to 2 $\mu$ F	0.000 13 $\mu$ F + 0.000 689 $\mu$ F/ $\mu$ F	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	2 $\mu$ F to 20 $\mu$ F	0.001 4 $\mu$ F + 0.000 628 $\mu$ F/ $\mu$ F	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	20 $\mu$ F to 200 $\mu$ F	0.015 $\mu$ F + 0.000 905 $\mu$ F/ $\mu$ F	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	0.2 mF to 2 mF	0.000 34 mF + 0.000 809 mF/mF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	2 mF to 20 mF	0.001 5 mF + 0.001 06 mF/mF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Capacitance	20 mF to 100 mF	0.015 mF + 0.001 06 mF/mF	Fluke 8588A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	0.001 $\Omega$ to 10.999 9 $\Omega$	0.001 2 $\Omega$ + 0.000 047 $\Omega$ / $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 $\Omega$ to 32.999 9 $\Omega$	0.001 7 $\Omega$ + 0.000 035 $\Omega$ / $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 $\Omega$ to 109.999 9 $\Omega$	0.001 7 $\Omega$ + 0.000 032 $\Omega$ / $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 $\Omega$ to 329.999 9 $\Omega$	0.002 3 $\Omega$ + 0.000 033 $\Omega$ / $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure Resistance	0.33 k $\Omega$ to 1.099 999 k $\Omega$	0.000 003 8 k $\Omega$ + 0.000 032 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 k $\Omega$ to 3.299 999 k $\Omega$	0.000 024 k $\Omega$ + 0.000 032 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 k $\Omega$ to 10.999 99 k $\Omega$	0.000 039 k $\Omega$ + 0.000 032 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 k $\Omega$ to 32.999 99 k $\Omega$	0.000 23 k $\Omega$ + 0.000 033 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 k $\Omega$ to 109.999 9 k $\Omega$	0.000 23 k $\Omega$ + 0.000 033 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 k $\Omega$ to 329.999 9 k $\Omega$	0.002 3 k $\Omega$ + 0.000 038 k $\Omega$ /k $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 k $\Omega$ to 1.099 999 M $\Omega$	0.000 002 5 M $\Omega$ + 0.000 037 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 M $\Omega$ to 3.299 999 M $\Omega$	0.000 020 M $\Omega$ + 0.000 082 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 M $\Omega$ to 10.999 99 M $\Omega$	0.000 052 M $\Omega$ + 0.000 15 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 M $\Omega$ to 32.999 99 M $\Omega$	0.002 8 M $\Omega$ + 0.000 3 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 M $\Omega$ to 109.999 9 M $\Omega$	0.003 5 M $\Omega$ + 0.000 58 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 M $\Omega$ to 329.999 9 M $\Omega$	0.12 M $\Omega$ + 0.003 5 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 M $\Omega$ to 1 100 M $\Omega$	0.60 M $\Omega$ + 0.017 M $\Omega$ /M $\Omega$	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	0.000 012 $\Omega$ to 2 $\Omega$	17 $\mu\Omega$ / $\Omega$ + 4 $\mu\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Output Resistance	2 $\Omega$ to 20 $\Omega$	9.5 $\mu\Omega/\Omega$ + 28 $\mu\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	20 $\Omega$ to 200 $\Omega$	8 $\mu\Omega/\Omega$ + 50 $\mu\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	200 $\Omega$ to 2 k $\Omega$	8 $\mu\Omega/\Omega$ + 500 $\mu\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	2 k $\Omega$ to 20 k $\Omega$	8 $\mu\Omega/\Omega$ + 5.0 m $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	20 k $\Omega$ to 200 k $\Omega$	8 $\mu\Omega/\Omega$ + 50 m $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	200 k $\Omega$ to 2 M $\Omega$	9 $\mu\Omega/\Omega$ + 1 $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	2 M $\Omega$ to 20 M $\Omega$	20 $\mu\Omega/\Omega$ + 100 $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	20 M $\Omega$ to 200 M $\Omega$	120 $\mu\Omega/\Omega$ + 10 k $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	200 M $\Omega$ to 2 G $\Omega$	1 510 $\mu\Omega/\Omega$ + 100 k $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output Resistance	2 G $\Omega$ to 20 G $\Omega$	1 510 $\mu\Omega/\Omega$ + 1 M $\Omega$	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure Capacitance	0.19 nF to 0.399 9 nF	0.11 nF + 0.009 1 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.4 nF to 1.099 9 nF	0.011 nF+ 0.006 6 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.299 9 nF	0.012 nF + 0.005 9 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 10.999 9 nF	0.012 nF + 0.002 9 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 nF to 32.999 9 nF	0.12 nF + 0.003 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 109.999 nF	0.12 nF + 0.002 9 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	110 nF to 329.999 nF	0.33 nF + 0.003 1 nF/nF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 $\mu$ F to 1.099 99 $\mu$ F	0.001 3 $\mu$ F + 0.002 9 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 $\mu$ F to 3.299 99 $\mu$ F	0.003 4 $\mu$ F + 0.003 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 $\mu$ F to 10.999 9 $\mu$ F	0.011 $\mu$ F + 0.003 1 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 $\mu$ F to 32.999 9 $\mu$ F	0.33 $\mu$ F + 0.004 8 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	33 $\mu$ F to 109.99 $\mu$ F	0.11 $\mu$ F + 0.005 5 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	110 $\mu$ F to 329.99 $\mu$ F	0.34 $\mu$ F + 0.005 4 $\mu$ F/ $\mu$ F	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 mF to 1.099 99 mF	0.001 3 mF + 0.005 2 mF/mF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



# Certificate of Accreditation: Supplement

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8100 Brownleigh Dr., #100A, Raleigh, NC 27617  
 Contact Name: Mark DeRoo Phone: 847-269-8795

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure Capacitance	1.1 mF to 3.299 9 mF	0.003 5 mF + 0.005 2 mF/mF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 mF to 10.999 9 mF	0.12 mF + 0.005 3 mF/mF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 mF to 32.999 9 mF	0.034 mF + 0.008 7 mF/mF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	33 mF to 110 mF	0.12 mF + 0.013 mF/mF	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 32.999 mV	0.008 9 mV + 0.000 878 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 32.999 mV	0.009 mV + 0.000 148 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 32.999 mV	0.009 mV + 0.000 202 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 32.999 mV	0.008 8 mV + 0.001 11 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 32.999 mV	0.015 mV + 0.004 02 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 32.999 mV	0.058 mV + 0.009 23 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage	33 mV to 329.999 mV	0.009 2 mV + 0.003 46 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	(@ 10 Hz to 45 Hz)						
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 329.999 mV	0.009 mV + 0.001 74 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 329.999 mV	0.009 mV + 0.002 23 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 329.999 mV	0.009 2 mV + 0.004 04 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 329.999 mV	0.037 mV + 0.000 924 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 329.999 mV	0.081 mV + 0.002 31 mV/mV	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.299 99 V	0.000 058 V + 0.000 346 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.299 99 V	0.000 069 V + 0.000 173 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.299 99 V	0.000 069 V + 0.000 219 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.299 99 V	0.000 076 V + 0.000 292 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.299 99 V	0.000 14 V + 0.000 808 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.299 99 V	0.000 69 V + 0.002 77 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 32.999 9 V	0.000 75 V + 0.003 46 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 32.999 9 V	0.000 69 V + 0.000 173 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 32.999 9 V	0.000 69 V + 0.000 277 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 32.999 9 V	0.000 69 V + 0.000 404 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 32.999 9 V	0.001 8 V + 0.001 04 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 329.999 V	0.002 3 V + 0.000 219 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 329.999 V	0.006 9 V + 0.000 231 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 329.999 V	0.006 9 V + 0.000 289 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 329.999 V	0.006 9 V + 0.000 346 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 329.999 V	0.058 V + 0.002 31 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	330 V to 1 020 V	0.12 V + 0.000 346 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 020 V	0.04 V + 0.000 261 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz 10 kHz)	330 V to 1 020 V	0.012 V + 0.000 346 V/V	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	0.052 mV to 200 mV	165 $\mu$ V/V + 14 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	0.052 mV to 200 mV	140 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	0.052 mV to 200 mV	115 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage	0.052 mV to 200 mV	110 $\mu$ V/V + 2 $\mu$ V	Fluke 8508A Reference	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	(@ 100 Hz to 2 kHz)			Multimeter			
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	0.052 mV to 200 mV	135 $\mu$ V/V + 4 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	0.052 mV to 200 mV	340 $\mu$ V/V + 8 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	0.052 mV to 200 mV	765 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	200 mV to 2 V	150 $\mu$ V/V + 120 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	200 mV to 2 V	115 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	200 mV to 2 V	90 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	200 mV to 2 V	75 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	200 mV to 2 V	110 $\mu$ V/V + 20 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	200 mV to 2 V	220 $\mu$ V/V + 40 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	200 mV to 2 V	570 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	200 mV to 2 V	3 mV/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	200 mV to 2 V	10 mV/V + 20 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	2 V to 20 V	150 $\mu$ V/V + 1.2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	2 V to 20 V	115 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	2 V to 20 V	90 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	2 V to 20 V	75 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	2 V to 20 V	110 $\mu$ V/V + 200 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	2 V to 20 V	220 $\mu$ V/V + 400 $\mu$ V	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	2 V to 20 V	570 $\mu$ V/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	2 V to 20 V	3 mV/V + 20 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	2 V to 20 V	10 mV/V + 200 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	20 V to 200 V	150 $\mu$ V/V + 12 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	20 V to 200 V	115 $\mu$ V/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 100 Hz)	20 V to 200 V	90 $\mu$ V/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 Hz to 2 kHz)	20 V to 200 V	75 $\mu$ V/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 2 kHz to 10 kHz)	20 V to 200 V	110 $\mu$ V/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	20 V to 200 V	220 $\mu$ V/V + 4 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	20 V to 200 V	570 $\mu$ V/V + 20 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	20 V to 200 V	3 mV/V + 200 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	20 V to 200 V	10 mV/V + 2 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 10 Hz)	200 V to 1 050 V	150 $\mu$ V/V + 73.5 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	200 V to 1 050 V	120 $\mu$ V/V + 21 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 10 kHz)	200 V to 1 050 V	115 $\mu$ V/V + 21 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 30 kHz)	200 V to 1 050 V	225 $\mu$ V/V + 42 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 30 kHz to 100 kHz)	200 V to 1 050 V	580 $\mu$ V/V + 210 mV	Fluke 8508A Reference Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 1 kHz)	1 000 V to 6 000 V	11.2 mV/V + 12 V	Fluke 80K-6 HV Probe with 8060A Multimeter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	29 $\mu$ A to 329.99 $\mu$ A	0.12 $\mu$ A + 0.002 31 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	29 $\mu$ A to 329.99 $\mu$ A	0.12 $\mu$ A + 0.001 73 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 $\mu$ A to 329.99 $\mu$ A	0.12 $\mu$ A + 0.001 44 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	29 $\mu$ A to 329.99 $\mu$ A	0.17 $\mu$ A + 0.003 46 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	29 $\mu$ A to 329.99 $\mu$ A	0.23 $\mu$ A + 0.009 24 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	29 $\mu$ A to 329.99 $\mu$ A	0.46 $\mu$ A + 0.018 5 $\mu$ A/ $\mu$ A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.299 9 mA	0.000 17 mA + 0.002 31 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.299 9 mA	0.000 17 mA + 0.001 44 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.299 9 mA	0.000 17 mA + 0.001 15 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.299 9 mA	0.000 23 mA + 0.002 31 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.299 9 mA	0.000 35 mA + 0.005 77 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	0.33 mA to 3.299 9 mA	0.000 69 mA + 0.011 5 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 32.999 mA	0.002 3 mA + 0.002 08 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 32.999 mA	0.002 3 mA + 0.001 04 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 32.999 mA	0.002 3 mA + 0.000 462 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 32.999 mA	0.002 3 mA + 0.000 924 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 32.999 mA	0.003 5 mA + 0.002 31 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 32.999 mA	0.004 6 mA + 0.004 62 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	33 mA to 329.99 mA	0.023 mA + 0.002 08 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	33 mA to 329.99 mA	0.023 mA + 0.001 04 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 329.99 mA	0.023 mA + 0.000 462 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	33 mA to 329.99 mA	0.023 mA + 0.000 923 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	33 mA to 329.99 mA	0.12 mA + 0.002 31 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	33 mA to 329.99 mA	0.23 mA + 0.004 62 mA/mA	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.33 A to 1.099 99 A	0.000 12 A + 0.002 08 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 1.099 99 A	0.000 12 A + 0.000 573 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 A to 1.099 99 A	0.001 2 A + 0.006 93 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 A to 1.099 99 A	0.005 8 A + 0.028 9 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	1.1 A to 2.999 99 A	0.000 21 A + 0.002 06 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 2.999 99 A	0.000 35 A + 0.000 641 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	1.1 A to 2.999 99 A	0.001 2 A + 0.006 93 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	1.1 A to 2.999 99 A	0.005 8 A + 0.028 9 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	3 A to 10.999 9 A	0.002 4 A + 0.000 69 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3 A to 10.999 9 A	0.002 3 A + 0.001 15 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 10.999 9 A	0.002 3 A + 0.034 6 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	11 A to 20.5 A	0.005 8 A + 0.001 39 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	11 A to 20.5 A	0.005 8 A + 0.001 73 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	11 A to 20.5 A	0.005 8 A + 0.034 6 A/A	Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	0.06 $\mu$ A to 199.99 $\mu$ A	500 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	0.06 $\mu$ A to 199.99 $\mu$ A	500 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	0.06 $\mu$ A to 199.99 $\mu$ A	710 $\mu$ A/A + 0.02 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 30 kHz to 100 kHz)	0.06 $\mu$ A to 199.99 $\mu$ A	4 mA/A + 0.02 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	200 $\mu$ A to 1.999 900 mA	310 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	200 $\mu$ A to 1.999 900 mA	300 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	200 $\mu$ A to 1.999 900 mA	710 $\mu$ A/A + 0.2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 30 kHz to 100 kHz)	200 $\mu$ A to 1.999 900 mA	4 mA/A + 0.2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	2 mA to 19.999 900 mA	310 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	2 mA to 19.999 900 mA	300 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	2 mA to 19.999 900 mA	710 $\mu$ A/A + 2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current (@ 30 kHz to 100 kHz)	2 mA to 19.999 900 mA	4 mA/A + 2 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	20 mA to 199.990 0 mA	310 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	20 mA to 199.990 0 mA	290 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	20 mA to 199.990 0 mA	625 $\mu$ A/A + 20 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	200 mA to 1.999 900 A	620 $\mu$ A/A + 200 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	200 mA to 1.999 900 A	735 $\mu$ A/A + 200 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	200 mA to 1.999 900 A	3 mA/A + 200 $\mu$ A	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 Hz to 10 Hz)	2 A to 19.999 00 A	820 $\mu$ A/A + 2 mA	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 10 kHz)	2 A to 19.999 00 A	2.5 mA/A + 2 mA	Fluke 8508A Reference Multi-meter	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	600 °C to 800 °C	0.51 °C	Electrical Simulation of Thermocouple	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with Thermocouple (Type B)			Output Fluke 5520A			
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type B)	800.01 °C to 1 000 °C	0.4 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type B)	1 000.01 °C to 1 550 °C	0.35 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type B)	1 550.01 °C to 1 820 °C	0.39 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type C)	0 °C to 150 °C	0.35 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type C)	150.01 °C to 650 °C	0.30 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type C)	650.01 °C to 1 000 °C	0.36 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type C)	1 000.01 °C to 1 800 °C	0.58 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type C)	1 800.01 °C to 2 316 °C	0.97 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type E)	-250 °C to -100 °C	0.58 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type E)	-99.99 °C to -25 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type E)	-24.99 °C to 350 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type E)	350.01 °C to 650 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type E)	650.01 °C to 1 000 °C	0.25 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type J)	-210 °C to -100 °C	0.32 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type J)	-99.99 °C to -30 °C	0.21 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type J)	-29.99 °C to 150 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type J)	150.01 °C to 760 °C	0.2 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type J)	760.01 °C to 1 200 °C	0.27 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type K)	-200 °C to -100 °C	0.39 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type K)	-99.99 °C to -25 °C	0.21 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type K)	-24.99 °C to 120 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type K)	120.01 °C to 1 000 °C	0.3 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type K)	1 000.01 °C to 1 372 °C	0.47 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type N)	-200 °C to -100 °C	0.47 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type N)	-99.99 °C to -25 °C	0.26 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type N)	-24.99 °C to 120 °C	0.22 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type N)	120.01°C to 410 °C	0.21 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type N)	410.01 °C to 1 300 °C	0.32 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type R)	0 °C to 250 °C	0.66 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type R)	250.01 °C to 400 °C	0.41 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type R)	400.01°C to 1 000 °C	0.39 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type R)	1 000.01 °C to 1 767 °C	0.47 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type S)	0 °C to 250 °C	0.55 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type S)	250.01 °C to 1 000 °C	0.42 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type S)	1 000.01 °C to 1 400 °C	0.43 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type S)	1 400.01 °C to 1 767 °C	0.54 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type T)	-250 °C to -150 °C	0.73 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type T)	-149.99 °C to 0 °C	0.28 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type T)	0 °C to 120 °C	0.19 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type T)	120.01 °C to 400 °C	0.17 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type U)	-200 °C to 0 °C	0.65 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with Thermocouple (Type U)	0.01 °C to 600 °C	0.32 °C	Electrical Simulation of Thermocouple Output Fluke 5520A	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 100 $\Omega$	-200 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 100 $\Omega$	0 °C to 100 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	100 °C to 300 °C	0.09 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 385) 100 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 100 $\Omega$	300 °C to 400 °C	0.10 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 100 $\Omega$	400 °C to 630 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 100 $\Omega$	630 °C to 800 °C	0.23 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3926) 100 $\Omega$	-200 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3926) 100 $\Omega$	0 °C to 100 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	100 °C to 300 °C	0.09 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 3926) 100 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3926) 100 $\Omega$	300 °C to 400 °C	0.10 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3926) 100 $\Omega$	400 °C to 630 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	-200 °C to -190 °C	0.25 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	-190 °C to -80 °C	0.04 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	-80 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	0 °C to 100 °C	0.06 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 3916) 100 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	100 °C to 260 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	260 °C to 300 °C	0.09 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	300 °C to 400 °C	0.10 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	400 °C to 600 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 3916) 100 $\Omega$	600 °C to 630 °C	0.23 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	-200 °C to 100 °C	0.04 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 385) 200 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 200 $\Omega$	100 °C to 260 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 200 $\Omega$	260 °C to 300 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 200 $\Omega$	300 °C to 400 °C	0.13 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 200 $\Omega$	400 °C to 600 °C	0.14 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 200 $\Omega$	600 °C to 630 °C	0.16 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	-200 °C to -80 °C	0.04 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 385) 500 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 500 $\Omega$	-80 °C to 100 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 500 $\Omega$	100 °C to 260 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 500 $\Omega$	260 °C to 400 °C	0.08 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 500 $\Omega$	400 °C to 600 °C	0.09 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 500 $\Omega$	600 °C to 630 °C	0.11 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	-190 °C to 0 °C	0.03 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$	0 °C to 100 °C	0.04 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$	100 °C to 260 °C	0.05 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$	260 °C to 300 °C	0.06 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$	300 °C to 600 °C	0.07 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Pt 385) 1 000 $\Omega$	600 °C to 630 °C	0.23 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication,	-80 °C to 100 °C	0.08 °C	Electrical Simulation of RTD Output Fluke	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	and Control Equipment used with RTD (Ni 385) 120 $\Omega$			5520A Calibrator			
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Ni 385) 120 $\Omega$	100 °C to 260 °C	0.14 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment used with RTD (Cu 427) 10 $\Omega$	-100 °C to 260 °C	0.30 °C	Electrical Simulation of RTD Output Fluke 5520A Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure pk-pk Volts	1 mV to 130 V	1 mV/V + 40 $\mu$ V	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Leveled Sine Wave (Flatness) (@ 50 kHz Reference)	5 mV to 5.5 V (pk-pk)	0.023 mV/mV + 0.35 mV	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Leveled Sine Wave (Flatness) (@ 50 kHz to 100 MHz)	0 mV (Reference)	0.02 mV/mV + 0.100 mV	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Leveled Sine Wave (Flatness) (@ >100 MHz to 300 MHz)	0 mV (Reference)	0.025 mV/mV + 0.100 mV	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure Levelled Sine Wave (Flatness) (@ >300 MHz to 600 MHz)	0 mV (Reference)	0.047 3 mV/mV + 0.100 mV	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure Levelled Sine Wave (Flatness) (@ >600 MHz to 1 100 MHz)	0 mV (Reference)	0.059 mV/mV + 0.100 mV	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Toroidal Clamp Meter	1.65 A to 16.5 A	0.004 6 A + 0.002 77 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Toroidal Clamp Meter	16.5 A to 55 A	0.017 A + 0.002 9 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Toroidal Clamp Meter	55 A to 150 A	0.018 A + 0.002 92 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Toroidal Clamp Meter	150 A to 550 A	0.073 + 0.002 87 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Toroidal Clamp Meter	550 A to 1 000 A	0.07 A + 0.003 11 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	1.65 A to 16.5 A	0.005 8 A + 0.003 27 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	1.65 AAC to 16.5 AAC	0.004 7 A + 0.009 11 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 100 Hz to 440 Hz)	1.65 A to 16.5 A	0.006 2 A + 0.009 33 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	16.5 A to 150 A	0.031 A + 0.003 52 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	16.5 A to 150 A	0.055 A + 0.009 23 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 45 Hz to 440 Hz)	16.5 A to 150 A	0.055 A + 0.009 73 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	150 A to 1 000 A	0.14 A + 0.003 51 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	150 A to 1 000 A	0.14 A + 0.009 22 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Toroidal	150 A to 1 000 A	0.13 A + 0.009 19 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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	Clamp Meter (@ 100 Hz to 440 Hz)						
Electrical	Equipment to Measure DC Current Non-Toroidal Clamp Meter	1.65 A to 16.5 A	0.024 A + 0.005 75 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Non-Toroidal Clamp Meter	16.5 A to 55 A	0.16 A + 0.005 78 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Non-Toroidal Clamp Meter	55 A to 150 A	0.16 A + 0.005 79 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Non-Toroidal Clamp Meter	150 A to 550 A	0.58 A + 0.005 8 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure DC Current Non-Toroidal Clamp Meter	550 A to 1 000 A	0.58 A + 0.005 89 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	1.65 A to 16.5 A	0.035 A + 0.006 51 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	1.65 A to 16.5 A	0.035 A + 0.011 6 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 100 Hz to 440 Hz)	1.65 A to 16.5 A	0.035 A + 0.011 8 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O



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Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	16.5 A to 150 A	0.29 A + 0.006 6 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	16.5 A to 150 A	0.29 A + 0.011 6 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 100 Hz to 440 Hz)	16.5 A to 150 A	0.29 A + 0.012 1 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 45 Hz to 65 Hz)	150 A to 1 000 A	1.0 A + 0.006 61 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 65 Hz to 100 Hz)	150 A to 1 000 A	1.0 A + 0.011 6 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Electrical	Equipment to Measure AC Current Non-Toroidal Clamp Meter (@ 100 Hz to 440 Hz)	150 A to 1 000 A	0.99 A + 0.016 3 A/A	Fluke 5520A with Fluke 50-turn coil	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Mass	1 mg to 10 mg	0.012 9 mg + 0.000 000 644 mg/mg of reading	Mettler Toledo Analytical Balance, XP105 Class 1 Weight	CCA288 Calibration of Weights	F1, F3	F, O



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Mass, Force, and Weighing Devices	Equipment to Measure Mass	10 mg to 200 g	0.012 9 mg + 0.000 004 02 mg/mg of reading	Mettler Toledo Analytical Balance, XPR3005 Class 1 Weight	CCA288 Calibration of Weights	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Mass	200 g to 1 kg	0.000 268 g + 0.000 002 75 g/g of reading	Mettler Toledo Analytical Balance, XPR3005 Class 1 Weight	CCA288 Calibration of Weights	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Mass	2 kg to 10 kg	-0.000 395 g + 0.000 001 98 g/g of reading	Mettler Toledo Analytical Balance, XPR3005, Class E2 Weight, ANDGF-10002A	CCA288 Calibration of Weights	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Mass	10 kg to 30 kg	0.052 4 g + 0.000 000 829 g/g of reading	Mettler Toledo Analytical Balance, XPR32001L Class E2 Weight	CCA288 Calibration of Weights	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Mass	10 mg to 200 g	0.013 3 mg + 0.000 002 96 mg/mg	Class 1 Weights	CCA053 Calibration of Balances and Scales	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Tension and Compression)	10 lbf to 500 lbf	0.082 lbf + 0.000 001 2 lbf/lbf of reading	Precision Calibration Morehouse Load Cell PC-500	CCA133 Calibration of Torque and Force Measurement Devices	F1, F3	F
Mechanical	Equipment to Measure Pressure	-14.9 psig to -0.05 psig	0.001 2 psig + 0.000 003 76 psig/psig	Mensor CPC6050	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	-30 inH <sub>2</sub> O to -10 inH <sub>2</sub> O	0.000 000 5 inH <sub>2</sub> O + 0.000 11 inH <sub>2</sub> O/inH <sub>2</sub> O	Fluke 7250LP	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F



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Mechanical	Equipment to Measure Pressure	-10 inH <sub>2</sub> O to 10 inH <sub>2</sub> O	0.000 11 inH <sub>2</sub> O + 0.000 097 inH <sub>2</sub> O/inH <sub>2</sub> O	Fluke 7250LP	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	10 inH <sub>2</sub> O to 30 inH <sub>2</sub> O	0.000 000 5 inH <sub>2</sub> O + 0.000 11 inH <sub>2</sub> O/inH <sub>2</sub> O	Fluke 7250LP	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	1 psig to 10 psig	0.001 2 psig + 0.000 001 08 psig/psig	Mensor CPC6050	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	10 psig to 25 psig	0.001 45 psig + 0.000 004 24 psig/psig	Fluke 7250xi	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	25 psig to 500 psig	0.000 029 psig + 0.000 061 psig/psig	Fluke 7250xi	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	500 psig to 1 000 psig	-0.000 129 psig + 0.000 118 psig/psig	Mensor CPC6050	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F
Mechanical	Equipment to Measure Pressure	1 000 psig to 2 000 psig	0.000 007 4 psig + 0.000 119 psig/psig	Fluke PM600-A14M	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F, O
Mechanical	Equipment to Measure Pressure	2 000 psig to 3 000 psig	0.000 29 psig + 0.000 118 psig/psig	Fluke PM500-BG20M	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F, O
Mechanical	Equipment to Measure Pressure	3 000 psig to 5 000 psig	0.57 psig + 0.000 001 01 psig/psig	Fluke 2700G-G35M	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F, O
Mechanical	Equipment to Measure Pressure (Hydraulic)	200 psig to 10 000 psig	0.000 94 psig + 0.000 097 3 psig/psig	Fluke P3214 DWT w/correction software	CCA222 & CCA014, Calibration of Pressure Devices, Metrology Lab	F1, F3	F, O



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Mechanical	Equipment to Measure Pressure	-0.15 psig to -0.01 psig	0.009 3 psig - 0.000 000 254 psig/psig	Fluke 2700G-BG200K	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Equipment to Measure Pressure	0.01 psig to 30 psig	0.003 6 psig + 0.000 001 31 psig/psig	Fluke 2700G-BG200K	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Equipment to Measure Pressure	30 psig to 90 psig	0.011 psig	Fluke PM600-A2M	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Equipment to Measure Pressure	90 psig to 300 psig	0.002 7 psig + 0.000 106 psig/psig	Fluke PM600-A2M	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Equipment to Measure Pressure	300 psig to 1 000 psig	0.000 001 9 psig + 0.000 115 psig/psig	Fluke PM600-A7M	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Equipment to Measure Pressure	1 000 psig to 2 000 psig	-0.000 68 psig + 0.000 116 psig/psig	Fluke PM600-A14M	CCA222, Calibration of Pressure Devices, Metrology Lab	F1, F3	O
Mechanical	Torque Wrenches	0.5 lbf•in to 5 lbf•in	1 % of reading	Mountz Indicator PTT-2000 w/ BMX80z Transducer	CCA133, Calibration of Torque Devices	F1, F3	F, O
Mechanical	Torque Wrenches	5 lbf•in to 50 lbf•in	0.001 2 lbf•in + 0.002 92 lbf•in	CDI 2000-400-02 Torque System	CCA133, Calibration of Torque Devices	F1, F3	F, O
Mechanical	Torque Wrenches	40 lbf•in to 400 lbf•in	0.015 lbf•in + 0.000 291 lbf•in	CDI 2000-400-02 Torque System	CCA133, Calibration of Torque Devices	F1, F3	F, O
Mechanical	Torque Wrenches	100 lbf•in to 1 000 lbf•in	0.012 lbf•in + 0.002 93 lbf•in	CDI 2000-400-02 Torque System	CCA133, Calibration of Torque Devices	F1, F3	F, O
Mechanical	Torque Wrenches	25 lbf•ft to 250 lbf•ft	0.022 lbf•ft + 0.002 86 lbf•ft	CDI 2000-400-02 Torque System	CCA133, Calibration of Torque Devices	F1, F3	F, O



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Mechanical	Torque Wrenches	250 lbf•ft to 600 lbf•ft	0.01 lbf•ft + 0.002 9 lbf•ft/lbf•ft of reading	CDI 2000-400-02 Torque System	CCA133, Calibration of Torque Devices	F1, F3	F, O
Mechanical	Equipment to Measure Flow	2 sccm to 20 sccm	0.028 sccm + 0.000 534 sccm/sccm	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	20 sccm to 100 sccm	0.000 47 sccm + 0.001 93 sccm/sccm	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	100 sccm to 1 000 sccm	0.002 6 sccm + 0.001 44 sccm/sccm	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	1 000 sccm to 2 000 sccm	0.007 5 sccm + 0.001 44 sccm/sccm	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	2 000 sccm to 3 000 sccm	4.2 sccm + 0.001 44 sccm/sccm	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	3 SLM to 50 SLM	0.002 5 SLM + 0.001 89 SLM/SLM	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Mechanical	Equipment to Measure Flow	50 SLM to 100 SLM	0.002 6 SLM + 0.001 44 SLM/SLM	Fluke 1E2, 1E3, 3E4, Molblocs and Fluke Molbox+	CCA245 Calibration of Flow Devices	F1, F3	F
Fluid Quantities	Pipettes and Repeaters	0.1 $\mu$ L to 2 $\mu$ L	0.004 $\mu$ L/ $\mu$ L + 0.002 69 $\mu$ L	Photometric using Artel PCS	CCA153, Calibration of Pipettes and Similar Delivery Systems Using the Photometric Method	F1, F3	F, O



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Fluid Quantities	Pipettes and Repeaters	2 $\mu$ L to 10 $\mu$ L	0.001 9 $\mu$ L/ $\mu$ L + 0.003 65 $\mu$ L	Photometric using Artel PCS	CCA153, Calibration of Pipettes and Similar Delivery Systems Using the Photometric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	10 $\mu$ L to 30 $\mu$ L	0.003 85 $\mu$ L/ $\mu$ L - 0.000 14 $\mu$ L	Photometric using Artel PCS	CCA153, Calibration of Pipettes and Similar Delivery Systems Using the Photometric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	0.2 $\mu$ L to 2 $\mu$ L	0.002 6 $\mu$ L/ $\mu$ L + 0.026 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	2 $\mu$ L to 10 $\mu$ L	0.001 3 $\mu$ L/ $\mu$ L + 0.019 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	10 $\mu$ L to 20 $\mu$ L	0.003 5 $\mu$ L/ $\mu$ L + 0.13 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	20 $\mu$ L to 200 $\mu$ L	0.002 3 $\mu$ L/ $\mu$ L + 0.028 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	200 $\mu$ L to 1 000 $\mu$ L	0.001 6 $\mu$ L/ $\mu$ L + 0.16 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O



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Fluid Quantities	Pipettes and Repeaters	1 000 $\mu$ L to 5 000 $\mu$ L	0.000 48 $\mu$ L/ $\mu$ L + 1.6 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	5 000 $\mu$ L to 10 000 $\mu$ L	0.000 59 $\mu$ L/ $\mu$ L + 0.59 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Fluid Quantities	Pipettes and Repeaters	10 000 $\mu$ L to 20 000 $\mu$ L	0.000 62 $\mu$ L/ $\mu$ L + 0.25 $\mu$ L	Gravimetric Tare Addition with Moisture Trap	CCA132, Calibration of Pipettes and Similar Delivery Systems Using the Gravimetric Method	F1, F3	F, O
Time and Frequency	Equipment to Measure Frequency	10 MHz	2 parts in $10^{-12}$ Hz	Quartzlock E8-X GPS Reference	CCA033, Calibration of Electronic Devices	F1, F3	F
Time and Frequency	Equipment to measure Time and Frequency	1 Parts Per Second	2 parts in $10^{-12}$ Parts Per Second	Quartzlock E8-X GPS Reference	CCA033, Calibration of Electronic Devices	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	Up to 20 MHz	1 part in $10^{-10}$ Hz	HP 3325A with GPS	CCA033, Calibration of Electronic Devices	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	20 MHz to 300 MHz	2 parts in $10^{-10}$ Hz	Fluke 5500A monitored with GPS disciplined Fluke PM6681	CCA033, Calibration of Electronic Devices	F1, F3	F
Time and Frequency	Equipment to Measure Frequency	0.001 Hz to 300 MHz	$1.2 \times 10^{-5}$ Hz/Hz	Fluke PM6681	CCA033, Calibration of Electronic Devices	F1, F3	O
Time and Frequency	Equipment to Output Frequency	0.001 Hz to 300 MHz	$1.2 \times 10^{-5}$ Hz/Hz	Fluke PM6681	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	Up to 300 MHz	2 parts in $10^{-10}$	GPS Disciplined Fluke PM6681	CCA033, Calibration of Electronic Devices	F1, F3	F



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Time and Frequency	Tachometer	5 RPM to 199 999 RPM	0.000 058 RPM + 0.000 000 031 RPM/RPM	GPS disciplined Fluke 3325A	CCA004, Speed Devices	F1, F3	F, O
Time and Frequency	Stopwatches /Timers	Up to 48 hours	0.05 sec/day	Timometer 4500	CCA049, Calibration of Timers	F1, F3	F, O
Time and Frequency	Stopwatches /Timers	60 sec to 86 400 sec	0.038 sec/day	Fluke PM6681	NIST 960-12 Totalized Method CCA033, Calibration of Electronic Devices	F1, F3	F, O
Time and Frequency	Equipment to Measure Time Markers	1 nS to 20 mS	0.000 25 % of reading	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Time and Frequency	Equipment to Measure Time Markers	50 mS to 5 S	0.002 5% of reading + 0.001 S	Fluke 5522A/1100 Calibrator	CCA033, Calibration of Electronic Devices	F1, F3	F, O
Thermodynamic	Temperature Measurement PRT	-196 °C	0.008 6 °C	HART 1594A, Accumac AM1860, EDL Cryo-Cal	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-196 °C to 0 °C	0.008 5°C - 0.000 000 287 °C/°C Reading	HART 1594A, AM1860, EDL Cryo-Cal-2-LI	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-90 °C to 0 °C	0.005 8°C + 0.000 049 2 °C/°C Reading	HART 1594A, Accumac AM1860, Kambic OB-22/2ULT	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-40°C to 0 °C	0.01°C + 0.000 006 45 °C/°C Reading	HART 1594A, Accumac AM1860, Fluke 7341	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	0 °C to 150 °C	0.01°C + 0.000 028 5 °C/°C Reading	HART 1594A, Accumac AM1860, Fluke 7341	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F



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Thermodynamic	Temperature Measurement PRT	150 °C to 200 °C	0.009 3 °C + 0.000 006 6 °C/°C Reading	HART 1594A, Accumac AM1860, Fluke 6020	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	200 °C to 550 °C	-0.002 4 + 0.000 094 °C/°C Reading	HART 1594A, Accumac AM1860, UB-2050 (Ultra Bath)	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-196 °C	0.01 °C	Hart 1594A, Fluke 5699, EDL Cryo-Cal	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-80 °C to 0 °C	0.007 4 °C + 0.000 088 °C/°C	Hart 1594A, Fluke 5699 and Fluke 7381	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	0 °C to 110 °C	0.007 4 °C + 0.000 028 3 °C/°C	Hart 1594A, Fluke 5699 and Fluke 7341	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	110 °C to 150 °C	0.011 °C + 0.000 040 4 °C/°C	Hart 1594A, Fluke 5699 and Fluke 7341	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	150 °C to 200 °C	0.002 3 °C + 0.000 055 °C/°C	Fluke 1594, Fluke 5699 and Fluke 6202	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	200 °C to 550 °C	0.002 8 °C + 0.000 035 °C/°C	Hart 1594, Fluke 5699 and Ultra Bath	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement PRT	-196 °C to 660 °C	0.025 °C	Hart 2560 and Accumac AM1860- 25	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F, O



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Thermodynamic	Temperature Source (Drywell and Bath)	-95 °C to 660 °C	0.025 °C	Hart 1594 and Accumac AM1860-25	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F, O
Thermodynamic	Temperature Measurement Thermistor	-40 °C to 140 °C	0.025 °C	Fluke 1594 and Fluke 5699 SPRT	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F, O
Thermodynamic	Temperature Measurement LIG Thermometer	-80 °C to 500 °C	0.025 °C	Hart 2560 and Hart 5628 SPRT	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement Thermocouple Type T	-196°C to 400 °C	0.25 °C	Hart 2560 and Hart 5628 SPRT	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Temperature Measurement Thermocouple Types J & K	-196°C to 600 °C	0.35 °C	Hart 2560 and Hart 5628 SPRT	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	0.01 °C	0.005 °C	Triple Point of Water	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	-38.834 4 °C	0.001 °C	ISO Tech Fixed Cell – Mercury	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	156.598 5 °C	0.002 °C	ISO Tech Fixed Cell – Indium	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F
Thermodynamic	Equipment to Measure Temperature	419.527 °C	0.002 °C	ISO Tech Fixed Cell – Zinc	CCA223 Calibration of Temperature Devices, Metrology Lab	F1, F3	F



# Certificate of Accreditation: Supplement

## PCI

8100 Brownleigh Dr., #100A, Raleigh, NC 27617  
Contact Name: Mark DeRoo Phone: 847-269-8795

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Thermodynamic	Equipment to Measure Humidity	10 % RH to 95 % RH	0.5 % RH	Thunder Scientific 2500 Humidity Chamber	CCA058 Calibration of Temperature, Humidity Device, Carbon Dioxide, Oxygen and Dew Point Devices	F1, F3	F

- 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.
- 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.
- Location of activity:  

<b>Location Code</b>	<b>Location</b>
O	Conformity assessment activity is performed onsite at the CABs customer location
- 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.