



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Calibration Specialty, Inc.
2500 E. Grauwylar Road, Irving, TX 75061

*and hereby declares that the Organization is accredited in accordance with
the recognized International Standard:*

ISO/IEC 17025:2017

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

Dimensional, Electrical, Mechanical, and Time and Frequency Calibration
(As detailed in the supplement)

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

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

February 27, 2014

February 12, 2026

February 29, 2028

Accreditation No.:

Certificate No.:

74313

L26-119

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*

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



Certificate of Accreditation: Supplement

Calibration Specialty, Inc.

2500 E. Grauwylar Road, Irving, TX 75061

Contact Name: Phil Nordquist Phone: 972-438-3774

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) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Gage Blocks	0.01 in to 0.05 in	2.2 μ m	Mahr Federal 130B-24 Gage Block Comparator Master Gage Blocks	33K6-4-1-1	F1, F2	F
Dimensional	Gage Blocks	0.05 in to 4 in	(3.3 + 1.3L) μ m	Mahr Federal 130B-24 Gage Block Comparator Master Gage Blocks	33K6-4-1-1	F1, F2	F
Dimensional	Gage Blocks	4 in to 10 in	(0.89 + 1.9L) μ m	Edmunds TOL 2200 Twin Head Gage Block Comparator	33K6-4-1-1	F1, F2	F
Dimensional	Gage Blocks	10 in to 20 in	(1.9 + 1.9L) μ m	Edmunds TOL 2200 Twin Head Gage Block Comparator	33K6-4-1-1	F1, F2	F
Dimensional	Cylindrical Gages	Up to 1 in	41 μ m	P & W Model C Supermicrometer	33K6-4-121-1	F1, F2	F
Dimensional	Ring Gages	0.125 in to 12 in	(12 + 2L) μ m	Sheffield N-9 Ring Gage Comparator	33K6-4-2-1	F1, F2	F
Dimensional	Indicators (Digital/ Dial)	Up to 1 in	(38 + 0.91L) μ m	P & W Model C Supermicrometer	NA17-20MD-11	F1, F2	F, O
Dimensional	Indicators (Digital/ Dial)	1 in to 10 in	(74 + 9.2L) μ m	Surface Plate and Gage Blocks	NA17-20MD-11	F1, F2	F, O
Dimensional	Calipers	Up to 36 in	(410 + 6L) μ m	Gage Blocks Long Blocks	33K6-4-552-1	F1, F2	F, O
Dimensional	Micrometers	Up to 36 in	(31 + 10L) μ m	Gage Blocks Long Blocks	NA17-20MD-06	F1, F2	F, O
Dimensional	Thread Plugs (Pitch Diameter)	0.001 in to 6 in	81 μ m	Super Micrometer and Thread wires	33K6-4-203-1	F1, F2	F
Dimensional	Threads Plugs (Major Diameter)	0.001 in to 6 in	47 μ m	Super Micrometer and Thread wires	33K6-4-203-1	F1, F2	F



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Mechanical	Absolute Pneumatic Pressure Gauge	0.2 psia to 50 psia	0.002 6 % + 0.000 9 psia	Ruska 2465 A (2465-725 & 2465-799) (2465-729 & 2465-799)	33K6-4-427-1	F1, F2	F, O
Mechanical	Pneumatic Pressure Gauge	0.2 psig to 50 psig	0.002 6 % + 0.000 86 psig	Ruska 2465 A (2465-725 & 2465-799) (2465-729 & 2465-799)	33K6-4-427-1	F1, F2	F, O
Mechanical	Pneumatic Pressure Gauge	2 psig to 1 000 psig	0.002 6 % + 0.000 83 psig	Ruska 2465 A (2465-725 & 2465-799) (2465-729 & 2465-799)	33K6-4-427-1	F1, F2	F, O
Mechanical	Hydraulic Pressure Gauge	6 psig to 2 417 psig	0.006 8 % + 0.014 psig	Ruska 2400 A (2400 -736 & 2402) (2400 -735 & 2402)	33K6-4-427-1	F1, F2	F, O
Mechanical	Hydraulic Pressure Gauge	30 psig to 12 140 psig	0.005 7 % + 0.033 psig	Ruska 2400 A (2400 -736 & 2402) (2400 -735 & 2402)	33K6-4-427-1	F1, F2	F, O
Mechanical	Hydraulic Pressure Gauge	5 000 psi to 20 000 psi	(0.05 % + 1.0) psi	Additel 672	33K6-4-427-1	F1, F2	F, O
Mechanical	Hydraulic Pressure Gauge	10 000 psi to 40 000 psi	(0.10 % + 1.0) psi	Additel 672	33K6-4-427-1	F1, F2	F, O
Mechanical	Torque Wrench	4 lbf•in to 50 lbf•in	1.2 % + 0.071 lbf•in	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	30 lbf•in to 400 lbf•in	0.37 % + 0.44 lbf•in	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	80 lbf•in to 1 000 lbf•in	0.56 % + 0.79 lbf•in	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	20 lbf•ft to 250 lbf•ft	0.47 % + 0.28 lbf•ft	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	60 lbf•ft to 600 lbf•ft	0.29 % + 0.57 lbf•ft	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	200 lbf•ft to 2 000 lbf•ft	0.56 % + 1.2 lbf•ft	Torque Calibration System	33K6-4-2193-1	F1, F2	F, O
Mechanical	Torque Wrench	10 lbf•in to 100 lbf•in	0.39 % + 0.26 lbf•in	Torque Calibration System	33K6-4-3015-1	F1, F2	F, O
Mechanical	Torque Wrench	120 lbf•in to 1 200 lbf•in	0.53 % + 0.56 lbf•in	Torque Calibration System	33K6-4-3015-1	F1, F2	F, O



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Mechanical	Torque Wrench	200 lbf•ft to 2 000 lbf•ft	0.27 % + 0.61 lbf•ft	Torque Calibration System	33K6-4-3015-1	F1, F2	F, O
Mechanical	Torque Analyzer/ Tester	10 ozf•in to 110 ozf•in	0.13 % + 0.05 ozf•in	2-1/2" Wheel 5" Wheel 10" Butterfly 40" Arm Class F weights	NA17-20MU-03	F1, F2	F, O
Mechanical	Torque Analyzer/ Tester	20 lbf•in to 200 lbf•in	0.18 % + 0.31 lbf•in	2-1/2" Wheel 5" Wheel 10" Butterfly 40" Arm Class F weights	NA17-20MU-03	F1, F2	F, O
Mechanical	Torque Analyzer/ Tester	25 lbf•ft to 250 lbf•ft	0.18 % + 0.71 lbf•ft	2-1/2" Wheel 5" Wheel 10" Butterfly 40" Arm Class F weights	NA17-20MU-03	F1, F2	F, O
Mechanical	Torque Analyzer/ Tester	200 lbf•ft to 2 000 lbf•ft	0.19 % + 1.2 lbf•ft	2-1/2" Wheel 5" Wheel 10" Butterfly 40" Arm Class F weights	NA17-20MU-03	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	Up to 329.999 mV	20 μ V/V + 1 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	0.33 V to 3.2999 99 V	11 μ V/V + 2 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 32.999 99 V	12 μ V/V + 20 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 339.999 9 V	18 μ V/V + 0.15 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure DC Voltage	340 V to 1 020 V	18 μ V/V + 1.5 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	Up to 329.99 μ A	0.15 mA/A + 20 nA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	330 μ A to 3.299 99 mA	0.1 mA/A + 50 nA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 32.999 9 mA	0.1 mA/A + 0.25 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	33 mA to 329.999 mA	0.1 mA/A + 2.5 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.33 A to 1.099 99 A	0.2 mA/A + 40 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1.1 A to 2.999 99 A	0.38 mA/A + 40 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	3 A to 10.999 9 A	0.5 mA/A + 0.5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure DC Current	11 A to 20.5 A	1 mA/A + 0.75 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	Up to 10.999 9 Ω	40 $\mu\Omega/\Omega$ + 1 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 32.999 9 Ω	30 $\mu\Omega/\Omega$ + 1.5 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 Ω to 109.999 Ω	28 $\mu\Omega/\Omega$ + 1.4 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 329.999 9 Ω	28 $\mu\Omega/\Omega$ + 2 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 Ω to 1 099.999 Ω	28 $\mu\Omega/\Omega$ + 2 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.1 k Ω to 3.299 999 k Ω	28 $\mu\Omega/\Omega$ + 20 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure Resistance	3.3 k Ω to 10.999 99 k Ω	28 $\mu\Omega/\Omega$ + 20 m Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 k Ω to 32.999 99 k Ω	28 $\mu\Omega/\Omega$ + 0.2 Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 k Ω to 109.999 9 k Ω	28 $\mu\Omega/\Omega$ + 0.2 Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 k Ω to 329.999 9	32 $\mu\Omega/\Omega$ + 2	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 k Ω to 1 099.99 k Ω	32 $\mu\Omega/\Omega$ + 2 Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.1 M Ω to 3.299 999 M Ω	60 $\mu\Omega/\Omega$ + 30 Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	3.3 M Ω to 10.999 99 M Ω	0.13 m Ω/Ω + 50 Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 M Ω to 32.999 99 M Ω	0.25 m Ω/Ω + 2.5 k Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 M Ω to 109.999 9 M Ω	0.5 m Ω/Ω + 3 k Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 M Ω to 329.999 9 M Ω	3 m Ω/Ω + 0.1 M Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 M Ω to 1 100 M Ω	15 m Ω/Ω + 0.5 M Ω	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 Hz to 45 Hz)	1 mV to 32.999 mV	0.8 mV/V + 6 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 10 kHz)	1 mV to 32.999 mV	0.15 mV/V + 6 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 kHz to 20 kHz)	1 mV to 32.999 mV	0.2 mV/V + 6 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 20 kHz to 50 kHz)	1 mV to 32.999 mV	1 mV/V + 6 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 50 kHz to 100 kHz)	1 mV to 32.999 mV	3.5 mV/V + 12 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 100 kHz to 500 kHz)	1 mV to 32.999 mV	8 mV/V + 50 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 Hz to 45 Hz)	33 mV to 329.999 mV	0.3 mV/V + 8 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 10 kHz)	33 mV to 329.999 mV	0.15 mV/V + 8 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 kHz to 20 kHz)	33 mV to 329.999 mV	0.16 mV/V + 8 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 20 kHz to 50 kHz)	33 mV to 329.999 mV	0.35 mV/V + 8 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 50 kHz to 100 kHz)	33 mV to 329.999 mV	0.8 mV/V + 32 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 100 kHz to 500 kHz)	33 mV to 329.999 mV	2 mV/V + 70 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 Hz to 45 Hz)	0.3 V to 3.299 99 V	0.3 mV/V + 50 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 10 kHz)	0.3 V to 3.299 99 V	0.15 mV/V + 60 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 kHz to 20 kHz)	0.3 V to 3.299 99 V	0.19 mV/V + 60 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 20 kHz to 50 kHz)	0.3 V to 3.299 99 V	0.3 mV/V + 50 μ V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 50 kHz to 100 kHz)	0.3 V to 3.299 99 V	0.7 mV/V + 0.13 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 100 kHz to 500 kHz)	0.3 V to 3.299 99 V	2.4 mV/V + 0.6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 Hz to 45 Hz)	3.3 V to 32.999 9 V	0.3 mV/V + 0.65 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 10 kHz)	3.3 V to 32.999 9 V	0.15 mV/V + 0.6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 kHz to 20 kHz)	3.3 V to 32.999 9 V	0.24 mV/V + 0.6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 20 kHz to 50 kHz)	3.3 V to 32.999 9 V	0.35 mV/V + 0.6 V	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 50 kHz to 100 kHz)	3.3 V to 32.999 9 V	0.9 mV/V + 1.6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 1 kHz)	33 V to 329.999 V	0.19 mV/V + 2 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 1 kHz to 10 kHz)	33 V to 329.999 V	0.2 mV/V + 6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 10 kHz to 20 kHz)	33 V to 329.999 V	0.25 mV/V + 6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 20 kHz to 50 kHz)	33 V to 329.999 V	0.3 mV/V + 6 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 50 kHz to 100 kHz)	33 V to 329.999 V	2 mV/V + 50 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 45 Hz to 1 kHz)	330 V to 1 020 V	0.3 mV/V + 10 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 1 kHz to 5 kHz)	330 V to 1 020 V	0.25 mV/V + 10 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Sine Wave) (@ 5 kHz to 10 kHz)	330 V to 1 020 V	0.3 mV/V + 10 mV	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 20 Hz)	29 μ A to 329.99 μ A	2 mA/A + 0.1 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (Sine Wave) (@ 20 Hz to 45 Hz)	29 μ A to 329.99 μ A	1.5 mA/A + 0.1 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	29 μ A to 329.99 μ A	1.3 mA/A + 0.1 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	29 μ A to 329.99 μ A	3 mA/A + 0.15 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	29 μ A to 329.99 μ A	8 mA/A + 0.2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 kHz to 30 kHz)	29 μ A to 329.99 μ A	16 mA/A + 0.4 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 20 Hz)	0.33 mA to 3.299 99 mA	2 mA/A + 0.15 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 20 Hz to 45 Hz)	0.33 mA to 3.299 99 mA	1.3 mA/A + 0.15 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	0.33 mA to 3.299 99 mA	1 mA/A + 0.15 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	0.33 mA to 3.299 99 mA	2 mA/A + 0.2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	0.33 mA to 3.299 99 mA	5 mA/A + 0.3 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Calibration Specialty, Inc.
 2500 E. Grauwlyer Road, Irving, TX 75061
 Contact Name: Phil Nordquist Phone: 972-438-3774

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (\pm) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 kHz to 30 kHz)	0.33 mA to 3.299 99 mA	10 mA/A + 0.6 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 20 Hz)	3.3 mA to 32.999 9 mA	1.8 mA/A + 2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 20 Hz to 45 Hz)	3.3 mA to 32.999 9 mA	0.9 mA/A + 2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	3.3 mA to 32.999 9 mA	0.4 mA/A + 2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	3.3 mA to 32.999 9 mA	0.8 mA/A + 2 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	3.3 mA to 32.999 9 mA	2 mA/A + 3 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 kHz to 30 kHz)	3.3 mA to 32.999 9 mA	4 mA/A + 4 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 20 Hz)	33 mA to 329.999 mA	1.8 mA/A + 20 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 20 Hz to 45 Hz)	33 mA to 329.999 mA	0.9 mA/A + 20 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	33 mA to 329.999 mA	0.4 mA/A + 20 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	33 mA to 329.999 mA	1 mA/A + 50 μ A	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	33 mA to 329.999 mA	2 mA/A + 0.1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 kHz to 30 kHz)	33 mA to 329.999 mA	4 mA/A + 0.2 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 45 Hz)	0.33 A to 1.099 99 A	1.8 mA/A + 0.1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	0.33 A to 1.099 99 A	0.5 mA/A + 0.1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	0.33 A to 1.099 99 A	6 mA/A + 1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	0.33 A to 1.099 99 A	25 mA/A + 5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 10 Hz to 45 Hz)	1.1 A to 2.999 99 A	1.8 mA/A + 0.1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 1 kHz)	1.1 A to 2.999 99 A	0.6 mA/A + 0.1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	1.1 A to 2.999 99 A	6 mA/A + 1 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (Sine Wave) (@ 5 kHz to 10 kHz)	1.1 A to 2.999 99 A	25 mA/A + 5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 100 Hz)	3 A to 10.999 9 A	0.6 mA/A + 2 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 100 Hz to 1 kHz)	3 A to 10.999 9 A	1 mA/A + 2 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	3 A to 10.999 9 A	30 mA/A + 2 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 45 Hz to 100 Hz)	11 A to 20.5 A	1.2 mA/A + 5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 100 Hz to 1 kHz)	11 A to 20.5 A	1.5 mA/A + 5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Sine Wave) (@ 1 kHz to 5 kHz)	11 A to 20.5 A	30 mA/A + 5 mA	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	220 pF to 399.9 pF	5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.4 nF to 1.099 9 nF	5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.299 9 nF	5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 10.999 9 nF	2.5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Measure Capacitance	11 nF to 32.999 9 nF	2.5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 109.999 nF	2.5 mF/F + 10 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 nF to 329.999 nF	2.5 mF/F + 30 pF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 μ F to 1.099 99 μ F	2.5 mF/F + 1 nF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 μ F to 3.299 99 μ F	2.5 mF/F + 3 nF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 μ F to 10.999 9 μ F	2.5 mF/F + 10 nF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 μ F to 32.999 9 μ F	4 mF/F + 30 nF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 μ F to 109.999 μ F	4.5 mF/F + 0.1 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 μ F to 329.999 μ F	4.5 mF/F + 0.3 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 mF to 1.099 99 mF	4.5 mF/F + 1 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 mF to 3.299 99 mF	4.5 mF/F + 3 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 mF to 10.999 9 mF	4.5 mF/F + 10 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 mF to 32.999 9 mF	7.5 mF/F + 30 μ F	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 mF to 110 mF	11 mF/F + 0.1 mF	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type B	600 °C to 800 °C	0.44 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	0.34 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type B	1 000 °C to 1 550 °C	0.3 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type B	1 550 °C to 1 820 °C	0.33 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type C	0 °C to 150 °C	0.3 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type C	150 °C to 650 °C	0.26 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type C	650 °C to 1 000 °C	0.31 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type C	1 000 °C to 1 800 °C	0.5 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type C	1 800 °C to 2 316 °C	0.84 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type E	-240 °C to -100 °C	0.5 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.14 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.21 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.27 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.14 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.17 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.23 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.33 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.18 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type K	-25 °C to 120 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.26 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.4 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type L	-200 °C to -100 °C	0.37 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type L	-100 °C to 800 °C	0.26 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type L	800 °C to 900 °C	0.17 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.4 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type N	-100 °C to -25 °C	0.22 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type N	-25 °C to 120 °C	0.19 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type N	120 °C to 410 °C	0.18 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.27 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.57 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.35 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.33 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.4 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.47 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type S	250 °C to 1 000 °C	0.36 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type S	1 000 °C to 1 400 °C	0.37 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type S	1 400 °C to 1 767 °C	0.46 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.63 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type U	-200 °C to 0 °C	0.56 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration, Indication, Control Equipment used with Thermocouple Type U	0 °C to 600 °C	0.27 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	-200 °C to -80 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	-80 °C to 0 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



Certificate of Accreditation: Supplement

Calibration Specialty, Inc.

2500 E. Grauwylar Road, Irving, TX 75061
 Contact Name: Phil Nordquist Phone: 972-438-3774

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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	300 °C to 400 °C	0.10 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 100 Ω	630 °C to 800 °C	0.23 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	-200 °C to -80 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	-80 °C to 0 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	0 °C to 100 °C	0.07 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	100 °C to 300 °C	0.09 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	300 °C to 400 °C	0.1 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926 100 Ω	400 °C to 630 °C	0.12 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	-200 °C to -190 °C	0.25 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	-190 °C to -80 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	-80 °C to 0 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	0 °C to 100 °C	0.06 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	100 °C to 260 °C	0.07 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	300 °C to 400 °C	0.09 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	400 °C to 600 °C	0.1 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916 100 Ω	600 °C to 630 °C	0.23 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	-200 °C to -80 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	-80 °C to 0 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	0 °C to 100 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	100 °C to 260 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	260 °C to 300 °C	0.12 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	300 °C to 400 °C	0.13 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	400 °C to 600 °C	0.14 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 200 Ω	600 °C to 630 °C	0.16 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	-200 °C to -80 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	-80 °C to 0 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	0 °C to 100 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	100 °C to 260 °C	0.06 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	260 °C to 300 °C	0.08 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	300 °C to 400 °C	0.08 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	400 °C to 600 °C	0.09 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 500 Ω	600 °C to 630 °C	0.11 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	-200 °C to -80 °C	0.03 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	-80 °C to 0 °C	0.03 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	0 °C to 100 °C	0.04 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	100 °C to 260 °C	0.05 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	260 °C to 300 °C	0.06 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	300 °C to 400 °C	0.07 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	400 °C to 600 °C	0.07 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	600 °C to 630 °C	0.23 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	-200 °C to -80 °C	0.03 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	-80 °C to 0 °C	0.08 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	0 °C to 100 °C	0.08 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385 1 000 Ω	100 °C to 260 °C	0.14 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Cu 427 10 Ω	-100 °C to 260 °C	0.3 °C	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Clamp-On Meters (DC Current)	16.5 to 1 000 A	0.092 ADC/A + 0.342 % of reading	Fluke 5522A Fluke 5500A/ COIL	Fluke Automated MetCal	F1, F2	F, O
Electrical	Clamp-On Meters (AC Current) (@ 45 Hz to 440 Hz)	16.5 to 1 000 A	0.063 AAC/A + 0.342 % of reading	Fluke 5522A Fluke 5500A/ COIL	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Output DC Current	30 μ A to 100 μ A	0.002 5 % of reading + 0.8 nA	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Current	100 μ A to 1 mA	0.002 5 % of reading + 5 nA	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Current	1 mA to 10 mA	0.002 5 % of reading + 50 nA	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Current	10 mA to 100 mA	0.004 % of reading + 500 nA	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Current	100 mA to 1 A	0.012 % of reading + 10 μ A	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	200 μ Ω to 10 Ω	0.001 5 % of reading + 50 μ Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 Ω to 100 Ω	0.001 2 % of reading + 500 μ Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	100 Ω to 1 k Ω	0.001 % of reading + 500 μ Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 k Ω to 10 k Ω	0.01 % of reading + 5 m Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 k Ω to 100 k Ω	0.01 % of reading + 50 m Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	100 k Ω to 1 M Ω	0.15 % of reading + 2 Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 M Ω to 10 M Ω	0.05 % of reading + 100 Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 M Ω to 100 M Ω	0.05 % of reading + 1 k Ω	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	1 mV to 10 mV	0.03 % of reading + 0.03 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	1 mV to 10 mV	0.02 % of reading + 0.011 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	1 mV to 10 mV	0.03 % of reading + 0.011 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 10 mV	0.1 % of reading + 0.011 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 10 mV	0.5 % of reading + 0.011 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	1 mV to 10 mV	4 % of reading + 0.02 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	10 mV to 100 mV	0.007 2 % of reading + 4 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	10 mV to 100 mV	0.007 2 % of reading + 2 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	10 mV to 100 mV	0.014 % of reading + 2 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 mV to 100 mV	0.03 % of reading + 2 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 mV to 100 mV	0.08 % of reading + 2 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	10 mV to 100 mV	0.3 % of reading + 10 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 0.3 MHz to 1 MHz)	10 mV to 100 mV	1 % of reading + 10 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 2 MHz)	10 mV to 100 mV	1.7 % of reading + 10 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	100 mV to 10 V	0.007 % of reading + 0.004 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	100 mV to 10 V	0.007 % of reading + 0.002 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	100 mV to 10 V	0.014 % of reading + 0.002 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	100 mV to 10 V	0.03 % of reading + 0.002 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	100 mV to 10 V	0.08 % of reading + 0.002 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	100 mV to 10 V	0.3 % of reading + 0.01 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	100 mV to 10 V	1 % of reading + 0.01 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 1 MHz to 2 MHz)	100 mV to 10 V	1.5 % of reading + 0.01 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	10 V to 100 V	0.02 % of reading + 0.04 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	10 V to 100 V	0.02 % of reading + 0.02 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	10 V to 100 V	0.02 % of reading + 0.02 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 V to 100 V	0.035 % of reading + 0.02 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 V to 100 V	0.12 % of reading + 0.02 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	10 V to 100 V	0.4 % of reading + 0.1 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	10 V to 100 V	1.5 % of reading + 0.1 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	100 V to 1 000 V	0.04 % of reading + 0.4 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	100 V to 1 000 V	0.04 % of reading + 0.2 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	100 V to 1 000 V	0.06 % of reading + 0.2 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	100 V to 1 000 V	0.12 % of reading + 0.2 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	100 V to 1 000 V	0.3 % of reading + 0.2 V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 mV to 100 mV	0.000 9 % of reading + 0.3 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	100 mV to 1 V	0.000 8 % of reading + 0.3 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 V to 10 V	0.000 8 % of reading + 0.5 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	0.001 % of reading + 30 μ V	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1 000 V	0.001 % of reading + 0.1 mV	HP 3458A	Fluke Automated MetCal	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 Hz to 1.2 kHz	1.7 mHz/Hz + 12 mHz	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1.2 kHz to 120 kHz	97.8 μ Hz/Hz + 1.2 Hz	Fluke 5522A	Fluke Automated MetCal	F1, F2	F, O



Certificate of Accreditation: Supplement

Calibration Specialty, Inc.

2500 E. Grauwylar Road, Irving, TX 75061

Contact Name: Phil Nordquist Phone: 972-438-3774

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

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location

Code

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

Location

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