



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

EML, LLC

998 Elm Hill Pike, Nashville, TN 37210

*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, Mass, Force, and Weighing Devices,
Thermodynamic, and Time & Frequency Calibration
(As detailed in the supplement)***

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

For PJLA:

Tracy Szerszen
President

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

Initial Accreditation Date:

August 23, 2018

Issue Date:

June 26, 2025

Expiration Date:

August 31, 2027

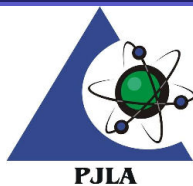
Accreditation No.:

100190

Certificate No.:

L25-482

*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.pjllabs.com*



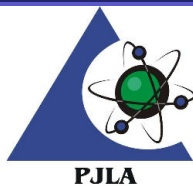
Certificate of Accreditation: Supplement

EML, LLC

998 Elm Hill Pike, Nashville, TN 37210
Contact Name: Stephen Kane Phone: 615-771-2560

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	Micrometers	Up to 20 in	(58 + 15L) μ in	Gage Blocks & Optical Flats	CP-004 B89.1.13	F1, F2, F3	F, O
Dimensional	Micrometers	20 in to 48 in	(187 + 37L) μ in	Gage Blocks & Optical Flats	CP-004 B89.1.13	F1, F2, F3	F, O
Dimensional	Calipers	Up to 20 in	(573 + 9L) μ in	Gage Blocks & Accessory Kit	CP-010	F1, F3	F, O
Dimensional	Calipers	20 in to 48 in	(577 + 36L) μ in	Gage Blocks & Accessory Kit	CP-010	F1, F3	F, O
Dimensional	Height Gages (excluding Height Masters)	Up to 20 in	(215 + 15L) μ in	Gage Blocks Surface Plate	CP-005 CP-009 CP-007 ASME B89.1.10M	F1, F2, F3	F, O
Dimensional	Height Gages (excluding Height Masters)	20 in to 48 in	(225 + 30L) μ in	Gage Blocks Surface Plate	CP-005 CP-009 CP-007 ASME B89.1.10M	F1, F2, F3	F, O
Dimensional	Depth Gages	Up to 20 in	(117 + 15L) μ in	Gage Blocks Surface Plate	CP-005 CP-009 CP-007 ASME B89.1.10M	F1, F2, F3	F, O
Dimensional	Linear Indicators (Digital & Test Indicators)	Up to 4 in	(115 + 2L) μ in	Gage Blocks Surface Plate	CP-005 CP-009 CP-007 ASME B89.1.10M	F1, F2, F3	F, O
Dimensional	Taper Gages	1 mm to 15 mm	0.001 mm	Height Gage Test Indicator	GIDEP / OEM Manual	F1, F2	F, O
Dimensional	Rulers	Up to 48 in	(500 + 18L) μ in	Caliper & Range Extender	CP-021	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	Up to 96 in x 48 in	(6.4 + 3.9 DL) μ in	Wyler BlueLevel II	ASME B89.3.7	F1, F2	F, O



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Dimensional	Cylindrical Gages (Plugs, Pins)	Up to 4 in	(52 + 17D) μ in	Gage Blocks, Linear Measuring Machine	ASTM B1 Standards CP-006	F1, F2, F3	F, O
Dimensional	Cylindrical Gages (Rings)	0.5 in to 4 in	(52 + 17D) μ in	Gage Blocks, Linear Measuring Machine	ASTM B1 Standards CP-006	F1, F2, F3	F, O
Dimensional	Thread Plugs (Major Diameter)	Up to 4 in	(26 + 16D) μ in	Gage Blocks, Linear Measuring Machine	ASTM B1 Standards CP-006	F1, F2, F3	F, O
Dimensional	Thread Plugs (Pitch Diameter)	4 TPI to 80 TPI	(74 + 9.7D) μ in	Three-wire Method	ASTM B1 Standards	F1, F2	F, O
Dimensional	Length Standards	Up to 20 in	(210 + 12L) μ in	Gage Blocks, Linear Measuring Machine, Height Gage	GIDEP / OEM Manual	F1, F2	F, O
Dimensional	Optical Comparator (X & Y Axis Accuracy)	Up to 15 in	(130 + 4.6L) μ in	Glass Masters	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	10X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	20X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	31.25X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	50X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	62.5X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Magnification)	100X	0.016 % of magnification	Magnification Master	CP-018	F1, F3	F, O



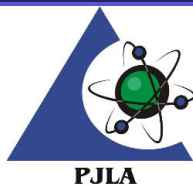
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Dimensional	Optical Comparator (Angle)	30°	33 s	Angle Block	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Angle)	45°	20 s	Angle Block	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Angle)	60°	3 min/4 s	Angle Block	CP-018	F1, F3	F, O
Dimensional	Optical Comparator (Angle)	90°	1 min/6 s	Angle Block	CP-018	F1, F3	F, O
Dimensional	Protractor (Angle)	0.25° to 10 °	3 min/58 s	Sine Plate/Gage Blocks	GIDEP / OEM Manual	F1, F2	F, O
Dimensional	Protractor (Angle)	10° to 90°	39 min/36 s	Sine Plate/Gage Blocks	GIDEP / OEM Manual	F1, F2	F, O
Dimensional	CMM (Linear Displacement)	Up to 700 mm	(7. 3 + 0.065L) μ m	Checkmaster	ASME B89.4.10360.2	F1, F2	F, O
Dimensional	CMM (Volumetric Accuracy)	Up to 600 mm	(7. 3 + 0.065L) μ m	Ball Bar	ASME B89.4.1-2000 ASME B89.4.10360.2	F1, F2	F, O
Dimensional	CMM (Repeatability)	25.4 mm	4.8 μ m	Calibration Sphere	ASME B89.4.1-2000 ASME B89.4.10360.2	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 mV to 100 mV	13 μ V/V + 8.8 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	0.1 V to 1 V	12 μ V/V + 3.4 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 V to 10 V	12 μ V/V + 40 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	13 μ V/V + 66 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1 000 V	18 μ V/V + 65 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



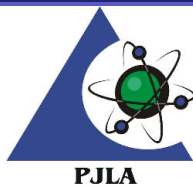
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Electrical	Equipment to Measure DC Voltage	10 mV to 100 mV	6.8 μ V/V + 0.86 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	0.1 V to 1 V	6 μ V/V + 0.8 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 V to 10 V	6.7 μ V/V + 1.3 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	10 V to 100 V	7 μ V/V + 32 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	100 V to 1 000 V	7.8 μ V/V + 59 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure HV DC Voltage	1 kV to 20 kV	1.1% of Reading	Fluke 80K-40 & HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	Up to 3.3 mA	83 μ A/A + 26 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	3.3 mA to 33 mA	69 μ A/A + 0.3 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	33 mA to 330 mA	62 μ A/A + 0.91 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.33 mA to 2.2 mA	0.016 % of Reading + 15 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	2.2 mA to 11 mA	0.047 % of Reading + 0.14 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Current (Clamp-On)	Up to 550 A	0.3 % of Reading + 65 mA	Fluke 5500A/coil	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	100 μ A to 1 A	0.57 μ A	HP 3458A & Load	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	10 μ A to 100 μ A	20 μ A/A + 0.67 nA	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.1 mA to 1 mA	17 μ A/A + 5.4 nA	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O



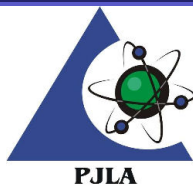
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Electrical	Equipment to Measure DC Current	1 mA to 10 mA	41 μ A/A + 37 nA	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	10 mA to 100 mA	37 μ A/A + 0.43 μ A	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.1 A to 1 A	98 μ A/A + 9.9 μ A	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	0.1 Ω to 11 Ω	0.046 % of Reading + 0.008 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	11 Ω to 33 Ω	0.031 % of Reading + 0.015 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	33 Ω to 110 Ω	0.012 % of Reading + 0.015 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	110 Ω to 330 Ω	74 $\mu\Omega/\Omega$ + 0.15 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	0.33 k Ω to 1.1 k Ω	76 $\mu\Omega/\Omega$ + 0.06 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	1.1 k Ω to 3.3 k Ω	83 $\mu\Omega/\Omega$ + 0.06 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	3.3 k Ω to 11 k Ω	76 $\mu\Omega/\Omega$ + 0.6 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	11 k Ω to 33 k Ω	60 $\mu\Omega/\Omega$ + 0.6 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	33 k Ω to 110 k Ω	86 $\mu\Omega/\Omega$ + 6 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	110 k Ω to 330 k Ω	76 $\mu\Omega/\Omega$ + 6 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	0.33 M Ω to 1.1 M Ω	0.01 % of Reading + 55 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	1.1 M Ω to 3.3 M Ω	0.012 % of Reading + 55 Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



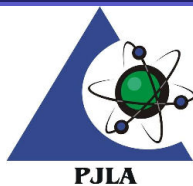
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Electrical	Equipment to Output DC Resistance	3.3 M Ω to 11 M Ω	0.033 % of Reading + 0.55 k Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	11 M Ω to 33 M Ω	0.089 % of Reading + 0.55 k Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	33 M Ω to 110 M Ω	0.28 % of Reading + 5.5 k Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output DC Resistance	110 M Ω to 330 M Ω	2.8 % of Reading + 17 k Ω	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	0.1 Ω to 10 Ω	23 $\mu\Omega/\Omega$ + 50 $\mu\Omega$	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	10 Ω to 100 Ω	9.5 $\mu\Omega/\Omega$ + 0.5 m Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	0.1 k Ω to 1 k Ω	7.5 $\mu\Omega/\Omega$ + 0.5 m Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	1 k Ω to 10 k Ω	8.1 $\mu\Omega/\Omega$ + 5 m Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	10 k Ω to 100 k Ω	9.7 $\mu\Omega/\Omega$ + 50 m Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	0.1 M Ω to 1 M Ω	14 $\mu\Omega/\Omega$ + 2 Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	1 M Ω to 10 M Ω	29 $\mu\Omega/\Omega$ + 100 Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	10 M Ω to 100 M Ω	0.033 % of Reading + 1 k Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure DC Resistance	0.1 G Ω to 1 G Ω	0.42 % of Reading + 10 k Ω	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 nF to 0.49 nF	0.14 % of Reading + 59 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.5 nF to 1.09 nF	0.16 % of Reading + 59 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



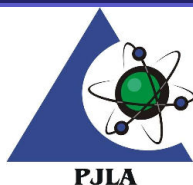
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Electrical	Equipment to Measure Capacitance	1.1 nF to 3.29 nF	0.22 % of Reading + 59 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.33 nF to 10.9 nF	0.38 % of Reading + 59 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 nF to 32.9 nF	0.28 % of Reading + 130 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 109.9 nF	0.14 % of Reading + 570 pF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 nF to 329.9 nF	0.05 % of Reading + 5.8 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	330 μ F to 1.09 μ F	0.14 % of Reading + 5.7 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 μ F to 3.29 μ F	0.08 % of Reading + 58 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 μ F to 10.9 μ F	0.23 % of Reading + 56 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 μ F to 32.9 μ F	0.11 % of Reading + 580 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 μ F to 109.9 μ F	0.38 % of Reading + 530 nF	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 μ F to 329.9 μ F	0.28 % of Reading + 5.6 μ F	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	0.33 mF to 0.33 mF	0.17 % of Reading + 58 μ F	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 20 Hz)	0.03 mA to 0.33 mA	0.2 % of Reading + 680 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 45 Hz)	0.03 mA to 0.33 mA	0.08 % of Reading + 700 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



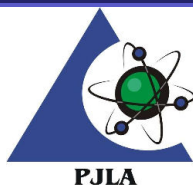
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Electrical	Equipment to Output AC Current (@ 0.045 kHz to 1 kHz)	0.03 mA to 0.33 mA	0.09 % of Reading + 740 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 1 kHz to 5 kHz)	0.03 mA to 0.33 mA	0.4 % of Reading + 650 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 kHz to 10 kHz)	0.03 mA to 0.33 mA	1.4 % of Reading + 510 nA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.3 mA	0.2 % of Reading + 5.5 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.3 mA	0.05 % of Reading + 5.7 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 0.045 kHz to 1 kHz)	0.33 mA to 3.3 mA	0.05 % of Reading + 5.7 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.3 mA	0.2 % of Reading + 5.5 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.3 mA	0.6 % of Reading + 4.5 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	0.3 % of Reading + 5.1 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	0.2 % of Reading + 5.7 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



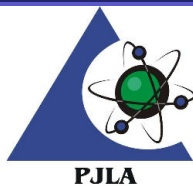
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EML, LLC

998 Elm Hill Pike, Nashville, TN 37210
Contact Name: Stephen Kane Phone: 615-771-2560

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Electrical	Equipment to Output AC Current (@ 0.045 kHz to 1 kHz)	3.3 mA to 33 mA	0.1 % of Reading + 5.8 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	0.3 % of Reading + 5.1 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	0.7 % of Reading + 4.2 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.3 % of Reading + 51 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.2 % of Reading + 31 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 0.045 kHz to 1 kHz)	33 mA to 330 mA	0.2 % of Reading + 35 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.3 % of Reading + 9.3 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 5 kHz to 10 kHz)	33 mA to 330 mA	0.8 % of Reading + 170 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 45 Hz)	0.33 A to 2.2 A	0.2 % of Reading + 510 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 0.045 kHz to 1 kHz)	0.33 A to 2.2 A	0.2 % of Reading + 580 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



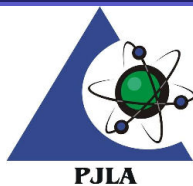
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Electrical	Equipment to Output AC Current (@ 1 kHz to 5 kHz)	0.33 A to 2.2 A	0.9 % of Reading + 410 μ A	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz)	2.2 A to 11 A	0.06 % of Reading + 5.8 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 65 Hz to 500 Hz)	2.2 A to 11 A	0.1 % of Reading + 5.5 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 0.5 kHz to 1 kHz)	2.2 A to 11 A	0.4 % of Reading + 4.1 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 65 Hz to 440 Hz) (Clamp-On)	Up to 110 A	1 % of Reading + 38 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 45 Hz to 65 Hz) (Clamp-On)	Up to 550 A	1 % of Reading + 770 mA	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 60 Hz)	100 mA to 1 A	6 μ A	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	Up to 33 mV	0.18 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 10 kHz)	Up to 33 mV	0.088 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



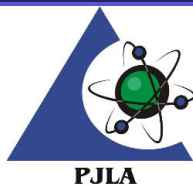
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Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	Up to 33 mV	0.12 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	Up to 33 mV	0.14 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	Up to 33 mV	0.21 % of Reading + 33 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	Up to 33 mV	0.52 % of Reading + 60 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.13 % of Reading + 50 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	0.033 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.056 % of Reading + 20 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.089 % of Reading + 40 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.13 % of Reading + 0.17 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.56 % of Reading + 0.33 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



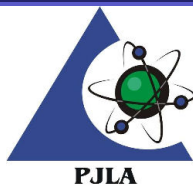
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Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.075 % of Reading + 0.25 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	0.016 % of Reading + 60 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.041 % of Reading + 60 μ V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.074 % of Reading + 0.3 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.12 % of Reading + 1.7 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	0.3 % of Reading + 3.3 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.75 % of Reading + 2.5 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.023 % of Reading + 0.6 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.042 % of Reading + 2.6 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.097 % of Reading + 5 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	12 % of Reading + 17 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 0.045 kHz to 1 kHz)	33 V to 330 V	0.28 % of Reading + 6.6 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.042 % of Reading + 15 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.046 % of Reading + 33 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 0.045 kHz to 1 kHz)	330 V to 1 000 V	0.044 % of Reading + 80 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 000 V	0.1 % of Reading + 0.1 mV	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 5 kHz to 8 kHz)	330 V to 1 000 V	0.1 % of Reading + 0.5 V	Fluke 5500A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	10 mV to 100 mV	0.011 % of Reading + 4 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.04 kHz to 1 kHz)	10 mV to 100 mV	0.015 % of Reading + 2 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 20 kHz)	10 mV to 100 mV	0.014 % of Reading + 2 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	10 mV to 100 mV	0.032 % of Reading + 2 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	10 mV to 100 mV	0.082 % of Reading + 2 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz o 300 kHz)	10 mV to 100 mV	0.49 % of Reading + 10 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz)	10 mV to 100 mV	1 % of Reading + 10 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 40 Hz)	0.1 V to 10 V	0.012 % of Reading + 40 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.04 kHz to 1 kHz)	0.1 V to 10 V	0.013 % of Reading + 20 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 20 kHz)	0.1 V to 10 V	0.019 % of Reading + 20 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.1 V to 10 V	0.022 % of Reading + 20 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.1 V to 10 V	0.045 % of Reading + 20 μ V	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz o 300 kHz)	0.1 V to 10 V	0.21 % of Reading + 0.1 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O



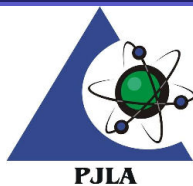
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Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz)	0.1 V to 10 V	0.82 % of Reading + 0.1 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 Hz to 40 Hz)	10 V to 100 V	0.018 % of Reading + 4 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.04 kHz to 1 kHz)	10 V to 100 V	0.019 % of Reading + 2 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 20 kHz)	10 V to 100 V	0.019 % of Reading + 2 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	10 V to 100 V	0.029 % of Reading + 2 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	10 V to 100 V	0.10 % of Reading + 2 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.04 kHz to 1 kHz)	100 V to 1 000 V	0.25 % of Reading + 20 mV	HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure HV AC Voltage	1 kV to 20 kV	1.3% of Reading	Fluke 80K-40 & HP 3458A	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	600 °C to 800 °C	0.45 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



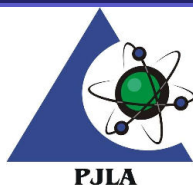
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	0.36 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	1 000 °C to 1 500 °C	0.32 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	1 500 °C to 1 820 °C	0.35 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	0 °C to 150 °C	0.32 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	150 °C to 650 °C	0.28 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	650 °C to 1 000 °C	0.33 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	1 000 °C to 1 800 °C	0.51 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



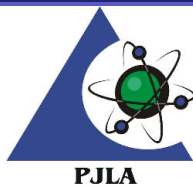
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	1 800 °C to 2 316 °C	0.85 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-250 °C to -100 °C	0.3 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.21 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.18 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.11 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.11 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.31 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



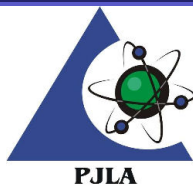
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.2 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.18 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.16 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.15 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.4 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.23 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C	0.17 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



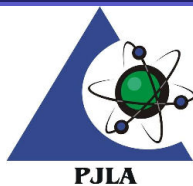
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.14 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.18 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.41 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-100 °C to -25 °C	0.24 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-25 °C to 120 °C	0.22 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	120 °C to 410 °C	0.21 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.29 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



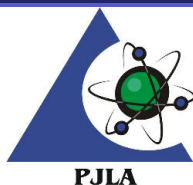
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.58 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.36 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.35 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.41 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.48 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	250 °C to 400 °C	0.37 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	400 °C to 1 000 °C	0.38 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O



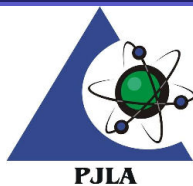
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	1 000 °C to 1 767 °C	0.47 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.96 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.57 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.31 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.17 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	-200 °C to 0 °C	0.57 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	0 °C to 600 °C	0.29 °C	Fluke 5500A Electrical Simulation of Thermocouple Output	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Level Sine Amp)(@ 50 kHz Ref.)	5 mV to 5 V (p-p)	0.3 mV + 3 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O



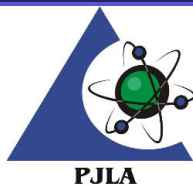
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Electrical	Oscilloscopes (Level Sine Flatness) (@ 5 mV to 5.5 V) (@ 50 kHz Ref.)	50 kHz to 100 MHz	0.1 mV + 2 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Level Sine Flatness) (@ 5 mV to 5.5 V) (@ 50 kHz Ref.)	100 MHz to 300 MHz	0.1 mV + 2.5 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Level Sine Flatness) (@ 5 mV to 5.5 V) (@ 50 kHz Ref.)	300 MHz to 600 MHz	0.1 mV + 4.5 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Square Wave) (@ 1 M Ω) (@ 100 Hz)	1 mV to 150 V (p-p)	40 μ V + 0.2 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Electrical	Oscilloscopes (Square Wave) (@ 50 Ω) (@ 1 kHz)	1 mV to 6.6 V (p-p)	40 μ V + 0.35 % of Reading	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Oscilloscopes (Time Marker Output) (Into 50 Ω)	1 ns to 20 ms	5 μ s/s	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Oscilloscopes (Rise Time)	Up to 300 ps	12 ps	Fluke 5500A /SC600	GIDEP / OEM Manual	F1, F2	F, O
Time and Frequency	Stopwatches/Timers	0.4 hr to 24 hr	0.2 s	HP 55300A GPS /PM6672 Counter	NIST SP 960-12	F1, F2	F, O
Time and Frequency	Rotational Speed Indicating Device	10 RPM to 100,000 RPM	0.34 RPM	HP 55300A GPS/ HP 3325B / PM6672 Counter	GIDEP / OEM Manual	F1, F2	F, O



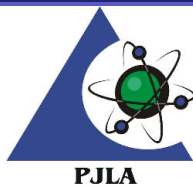
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Mechanical	Indirect Verification of Rockwell Hardness Testers HRA	20 HRA to 65 HRA	0.58 HRA	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRA	70 HRA to 78 HRA	0.5 HRA	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRA	80 HRA to 84 HRA	0.37 HRA	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRBW	40 HRBW to 59 HRBW	0.74 HRBW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRBW	60 HRBW to 79 HRBW	0.92 HRBW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRBW	80 HRBW to 100 HRBW	0.73 HRBW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	20 HRC to 30 HRC	0.88 HRC	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	35 HRC to 55 HRC	0.7 HRC	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	60 HRC to 65 HRC	0.42 HRC	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15N	70 HR15N to 77 HR15N	0.86 HR15N	Hardness Standards	ASTM E18	F1, F2	F, O



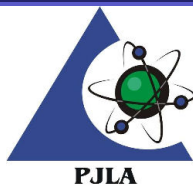
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Mechanical	Indirect Verification of Rockwell Hardness Testers HR15N	78 HR15N to 88 HR15N	0.63 HR15N	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15N	90 HR15N to 92 HR15N	1.4 HR15N	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	42 HR30N to 50 HR30N	0.96 HR30N	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	55 HR30N to 73 HR30N	0.64 HR30N	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR30N	77 HR30N to 82 HR30N	0.67 HR30N	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15TW	74 HR15TW to 80 HR15TW	0.62 HR15TW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15TW	81 HR15TW to 86 HR15TW	0.58 HR15TW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HR15TW	87 HR15TW to 93 HR15TW	0.45 HR15TW	Hardness Standards	ASTM E18	F1, F2	F, O
Mechanical	Torque Tools	5 in•lbf to 150 in•lbf	0.38 % of Reading	Snap-on Versatest torque calibration system	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Tools	150 in•lbf to 400 in•lbf	0.4 % of Reading	Snap-on Versatest torque calibration system	GIDEP / OEM Manual	F1, F2	F, O



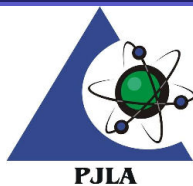
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Mechanical	Torque Tools	400 in•lbf to 1 000 in•lbf	0.4 % of Reading	Snap-on Versatest torque calibration system	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Tools	60 ft•lbf to 600 ft•lbf	0.52 % of Reading	Snap-on Versatest torque calibration system	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Testers/ Analyzers	5 in•lbf to 150 in•lbf	0.03 % of Reading + 0.52 in•lbf	TorqueArms/Wheels and Class F Weights	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Testers/ Analyzers	150 in•lbf to 400 in•lbf	0.14 % of Reading + 0.014 in•lbf	TorqueArms/Wheels and Class F Weights	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Testers/ Analyzers	400 in•lbf to 1 000 in•lbf	0.07 % of Reading + 0.49 in•lbf	TorqueArms/Wheels and Class F Weights	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Torque Testers/ Analyzers	50 ft•lbf to 600 ft•lbf	0.013 % of Reading + 0.3 ft•lbf	Torque Arms/ Wheels and Class F Weights	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Hydraulic Torque Wrench	Up to 20 000 lbf•ft	0.61% of reading	AKO TSD10KPT Pressure Transducer, AKO TSD6500-3 Display, AKO TSD20011 Torque Transducer	CP-051	F1, F3	F, O
Mechanical	Thickness Gages	Up to 60 mil	0.04 mil	Coating thickness Standards	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Thickness Gages	60 mil to 157 mil	0.08 mil	Coating thickness Standards	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Thickness Gages	158 mil to 305 mil	0.16 mil	Coating thickness Standards	GIDEP / OEM Manual	F1, F2	F, O
Mechanical	Magnehelic Pressure Gages	0 inH2O to 150 inH2O	0.02 inH2O	Fluke 725P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O



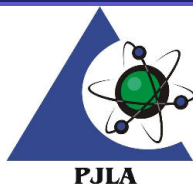
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Mechanical	Pressure & Vacuum Gages	-15 psig to 100 psig	0.09 psig	Fluke 700P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O
Mechanical	Pressure & Vacuum Gages	100 psig to 500 psig	0.21 psig	Fluke 700P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O
Mechanical	Pressure & Vacuum Gages	500 psig to 1 000 psig	0.56 psig	Fluke 700P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O
Mechanical	Pressure & Vacuum Gages	1 000 psig to 5 000 psig	2.1 psig	Fluke 700P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O
Mechanical	Pressure & Vacuum Gages	5 000 psig to 10 000 psig	13 psig	Fluke 700P Pressure Modules	GIDEP / OEM Manual ASME B40.100	F1, F2	F, O
Mass, Force, and Weighing Devices	Equipment for Measuring Force (Compression and Tension)	Up to 100 lbf	0.15 % of Reading + 0.05 lbf	Rice-Lake and Omega Load Cells	GIDEP / OEM Manual	F1, F2	F, O
Mass, Force, and Weighing Devices	Equipment for Measuring Force (Compression and Tension)	100 lbf to 500 lbf	0.11 % of Reading + 0.22 lbf	Rice-Lake and Omega Load Cells	GIDEP / OEM Manual	F1, F2	F, O
Mass, Force, and Weighing Devices	Equipment for Measuring Force (Compression and Tension)	500 lbf to 1 500 lbf	0.22 % of Reading + 2.5 lbf	Rice-Lake and Omega Load Cells	GIDEP / OEM Manual	F1, F2	F, O
Mass, Force, and Weighing Devices	Equipment for Measuring Force (Compression and Tension)	1 500 lbf to 10 000 lbf	0.27 % of Reading + 11 lbf	Rice-Lake and Omega Load Cells	GIDEP / OEM Manual	F1, F2	F, O
Mass, Force, and Weighing Devices	Equipment for Measuring Force (Compression and Tension)	10 000 lbf to 30 000 lbf	0.13 % of Reading + 38 lbf	Rice-Lake and Omega Load Cells	GIDEP / OEM Manual	F1, F2	F, O



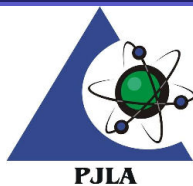
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Mass, Force, and Weighing Devices	Mass	1g to 20 g	0.057 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	50 g	0.087 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	100 g	0.046 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	200 g	0.23 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	500 g	0.53 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	1 kg	1.4 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	2 kg	2.9 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	3 kg	2.5 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	5 kg	4 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	10 kg	180 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Mass	20 kg	160 mg	ASTM Class 1 Weights and Analytical Balance	NIST 105-1 ANSI/ASTM E617	F1, F2	F
Mass, Force, and Weighing Devices	Balances & Scales	1 g to 100 g	5.4 μ g/g + 41 μ g	NIST Class 1 Weights	NIST Handbook 44	F1, F2	F, O
Mass, Force, and Weighing Devices	Balances & Scales	100 g to 250 g	47 μ g/g + 140 μ g	NIST Class 1 Weights	NIST Handbook 44	F1, F2	F, O
Mass, Force, and Weighing Devices	Balances & Scales	250 g to 6 100 g	0.39 μ g/g + 1.5 mg	NIST Class 1 Weights	NIST Handbook 44	F1, F2	F, O
Mass, Force, and Weighing Devices	Balances & Scales	6 100 g to 34 kg	12 μ g/g + 10 mg	NIST Class 1 Weights	NIST Handbook 44	F1, F2	F, O



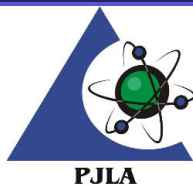
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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mass, Force, and Weighing Devices	Balances & Scales	5 lb to 1 000 lb	0.1 % of Reading	NIST Class F Weights	NIST Handbook 44	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	-200 °C to -80 °C	0.014 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	-80 °C to 0 °C	0.021 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	0 °C	0.021 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	0 °C to 100 °C	0.021 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	100 °C to 300 °C	0.031 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	300 °C to 400 °C	0.035 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Equipment for Measuring Temperature	400 °C to 600 °C	0.047 °C	Fluke 525B & Fluke 5628 PRT	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Analog and Digital Thermometers (Temperature)	-50 °C to 0 °C	0.083 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Analog and Digital Thermometers (Temperature)	0 °C	0.061 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Analog and Digital Thermometers (Temperature)	0 °C to 100 °C	0.083 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Analog and Digital Thermometers (Temperature)	100 °C to 300 °C	0.086 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O



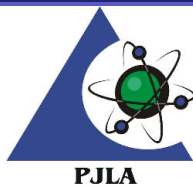
Certificate of Accreditation: Supplement

EML, LLC

998 Elm Hill Pike, Nashville, TN 37210
Contact Name: Stephen Kane Phone: 615-771-2560

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
Thermodynamic	Analog and Digital Thermometers (Temperature)	300 °C to 400 °C	0.088 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Analog and Digital Thermometers (Temperature)	400 °C to 600 °C	0.093 °C	Fluke 525B & Fluke 5628 and Dry Block	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Infrared Thermometers	0 °C to 100 °C	1.3 °C	Omega BB4A Blackbody Calibrator	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Infrared Thermometers	200 °C to 400 °C	2.2 °C	Omega BB4A Blackbody Calibrator	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Infrared Thermometers	400 °C to 900 °C	2.6 °C	Omega BB4A Blackbody Calibrator	GIDEP / OEM Manual	F1, F2	F, O
Thermodynamic	Humidity Indicators	10 % RH to 40 % RH	2.4 % RH	Vaisala HMP76/M170 & Salts	GIDEP / OEM Manual NBS 81A	F1, F2	F, O
Thermodynamic	Humidity Indicators	50 % to 90 % RH	3.1 % RH	Vaisala HMP76/M170 & Salts	GIDEP / OEM Manual NBS 81A	F1, F2	F, O



Certificate of Accreditation: Supplement

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

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

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location
4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
5. The term D represents diameter in inches or millimeters as appropriate to the uncertainty statement.
6. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.