PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Master Supply de México, S. de R.L. de C.V.

Calle Plátano # 6238, Colonia El Granjero
Cd. Juárez, Chihuahua, México. C.P. 32690

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, Chemical, Optical, Mass, Force and Weighing Devices, Mechanical, Thermodynamic, Electrical 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:	*Issue Date:*	*Expiration Date:*
June 06, 2016	September 09, 2024	November 30, 2026
Revision Date:	*Accreditation No.:*	*Certificate No.:*
August 18, 2025	89974	L24-686 -R1

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

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Calle Plátano # 6238, Colonia El Granjero
Cd. Juárez, Chihuahua, México. C.P. 32690
Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Bench Micrometer	0.127 mm to 101.6 mm	$(0.032 + 5.5 \times 10^{-8} L)$ µm	Grade 0 Gage Block	JIS B 7502	F1, F3	F, O
Dimensional	Bench Micrometer	0.005 in to 4 in	$(1.2 + 2.1 \times 10^{-6} L)$ µin	Grade 0 Gage Block	JIS B 7502	F1, F3	F, O
Dimensional	Calipers (Dial and Digital)	0.127 mm to 1 000 mm	$(0.7 + 2.8 \times 10^{-4} L)$ µm	Grade 0 Gage Block	JIS B 7507	F1, F3	F, O
Dimensional	Calipers (Dial and Digital)	0.005 in to 39.37 in	$(2.7 + 1.1 \times 10^{-2} L)$ µin	Grade 0 Gage Block	JIS B 7507	F1, F3	F, O
Dimensional	Depth Micrometers (Dial and Digital)	0.127 mm to 101.6 mm	$(0.08 + 5.5 \times 10^{-7} L)$ µm	Grade 0 Gage Block	JIS B7502	F1, F3	F, O
Dimensional	Depth Micrometers (Dial and Digital)	0.005 in to 4 in	$(3.14 + 2.16 \times 10^{-5} L)$ µin	Grade 0 Gage Block	JIS B7502	F1, F3	F, O
Dimensional	Mechanical Dial Gauges	0.127 mm to 1 016 mm	$(6 \times 10^{-3} + 1.1 \times 10^{-5} L)$ mm	Grade 0 Gage Block	JIS B 7503	F1, F3	F
Dimensional	Height Gauges (Dial and Digital)	0.127 mm to 1 016 mm	$(8.8 \times 10^{-3} + 9.8 \times 10^{-7} L)$ mm	Grade 0 Gage Block	JIS B 7517	F1, F3	F
Dimensional	Dial Test Indicators (Level Type)	0.127 mm to 50.8 mm	$(4.6 \times 10^{-4} + 1.7 \times 10^{-5} L)$ mm	Grade 0 Gage Block	JIS B 7533	F1, F3	F
Dimensional	Crosshead Travel	0.01 mm to 50 mm	1.3 µm	Grade 1 Gage Block	ASTM E2309M	F1, F3	O
Dimensional	Crosshead Travel	2 mm to 1 000 mm	(2 x 10-2 + 1 x 10-5L) mm	Grade 1 Gage Block	ASTM E2309M	F1, F3	O
Dimensional	Laser Micrometer	0.1 016 mm to 50.8 mm	$(0.29 + 1.9 \times 10^{-3} L)$ µm	Class XXX Cylindrical Pin	CENAM Technical Guide	F1, F3	O

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Dimensional	Optical Comparator and Vision Systems (X Axis Linearity)	0.1 mm to 355.6 mm	(22 + 0.011L) nm	Grade 0 Gage Block Set Multi-Magnification Glass Scale	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Y Axis Linearity)	0.1 mm to 355.6 mm	(22 + 0.011L) nm	Grade 0 Gage Block Set Multi-Magnification Glass Scale	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Z Axis Linearity)	0.1 mm to 355.6 mm	(22 + 0.011L) nm	Grade 0 Gage Block Set Multi-Magnification Glass Scale	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Magnification)	10 X	0.05 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Magnification)	20 X	0.05 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Magnification)	25 X	0.05 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Magnification)	31.25 X	0.03 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Magnification)	50 X	0.01 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O

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Dimensional	Optical Comparator and Vision Systems (Magnification)	62.5 X	0.01 % of magnification	Multi-Magnification Glass Scales	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator and Vision Systems (Squareness)	90°	0.11°	Precision Angle Block Set	JIS B 7184	F1, F3	O
Dimensional	Optical Comparator (Angularity)	0° to 90°	$(0.1 + 9.9 \times 10^{-5}L)°$	Precision Angle Block Set	JIS B 7184	F1, F3	O
Dimensional	Cylindrical Pin (Outside Diameter)	0.22 mm to 50 mm	$(0.36 + 1.5 \times 10^{-6}L)$ µm	Laser Micrometer Z Mike Model 1220S	ASME B89.1.5	F1, F3	F
Dimensional	Surface Roughness Tester (Rz)	0.34 µm to 10.5 µm	$(0.04 + 1.6 \times 10^{-3}L)$ µm	Roughness Standard	EAL-G20	F1, F3	F, O
Dimensional	Surface Roughness Tester (RSm)	9.9 µm to 100.5 µm	$(0.04 + 2 \times 10^{-4}L)$ µm	Roughness Standard Mahr Federal	EAL-G20	F1, F3	F, O
Dimensional	Surface Roughness Tester (Ra)	0.1 µm to 3.18 µm	(0.01 + 0.003L) µm	Roughness Standard Mahr Federal 2246001	EAL-G20	F1, F3	F, O
Dimensional	Surface Plates (Flatness)	150 mm to 2 400 mm (diagonal)	$(0.23 + 3.5 \times 10^{-3}L)$ µm	RAHN-AA-48 Planekator and Digital Indicator	JIB B 7513	F1, F3	F, O
Dimensional	Surface Plates (Repeatability)	0.05 mm	0.31 µm	Repeat-o-Meter and Digital Indicator	JIB B 7513	F1, F3	F, O
Dimensional	Roughness Standard (Ra)	0.1 µm to 6 µm	$(0.039 + 9.2 \times 10^{-5}L)$ µm	Surface Roughness Tester Mitutoyo SJ-400	EAL-G20	F1, F3	F

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Dimensional	Roughness Standard (Rz)	0.397 µm to 10.05 µm	(0.037 + 4.3 x 10^{-3}L) µm	Surface Roughness Tester Mitutoyo SJ-400	EAL-G20	F1, F3	F
Dimensional	Coating Thickness Measuring Equipment (Eddy Current & Magnetic Induction Coating Thickness Testers)	23.8 µm to 6 950 µm	(239 + 0.01L) nm	Standard Thickness Shims	D7091	F1, F3	F, O
Dimensional	Coating Thickness Standards (Foils Shims)	0.1 mm to 3.01 mm	(0.027 + 5.8L) nm	Thickness Meter	D7091	F1, F3	F, O
Dimensional	Ultrasonic Thickness Testers	1 mm to 50.8 mm	(7 + 2.3 x 10^{-3}L) µm	Grade 0 Gage Block Comparison	D7091	F1, F3	F, O
Dimensional	Rulers / Scales	0.1 mm to 1 000 mm	(12 + 2 x 10^{-3}L) µm	Linear Scale	OIML-R035-1-e CEM DI-012	F1, F3	F, O
Dimensional	Rulers / Scales	1 000 mm to 5 000 mm	(13 + 1 x 10^{-3}L) µm	Linear Scale	OIML-R035-1-e CEM DI-012	F1, F3	F, O
Dimensional	Measuring Tape	0.1 mm to 1 000 mm	(289 + 2.1 x 10^{-6}L) µm	Linear Scale	OIML-R035-1-e CEM DI-012	F1, F3	F, O
Dimensional	Measuring Tape	1 000 mm to 5 000 mm	(57 + 1.2 x 10^{-3}L) µm	Linear Scale	OIML-R035-1-e CEM DI-012	F1, F3	F, O
Dimensional	Linear Measurement Scales	100 mm to 1 092 mm	(0.34 + 2.4 x 10^{-4}L) µm	Grade 3 & Grade 0 Gage Blocks –Comparison	OIML R 35-1	F1, F3	F, O

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Dimensional	Angularity	1° to 90°	$(7 \times 10^{-4} + 1.4 \times 10^{-7}L)°$	Angle Blocks	NMX-CH-151-IMNC	F1, F3	F, O
Dimensional	Glass Scales & Reticle Metallic Indication	0.005 mm to 2 000 mm	$(0.12 + 1.33 \times 10^{-6}L)$ µm	Vision System STARRET AV300+-Z-QC5300-3LED	JIS B07541	F1, F3	F
Dimensional	Radius Gauge	0.025 mm to 25.4 mm	$(0.94 + 2.5 \times 10^{-3}L)$ µm	Vision System STARRED AV300+-Z-QC5300-3LED	ISO 2768-2	F1, F3	F
Dimensional	Radius Gauge	0.001 in to 1 in	$(0.037 + 9.8 \times 10^{-5}L)$ µin	Vision System STARRED AV300+-Z-QC5300-3LED	ISO 2768-2	F1, F3	F
Chemical	Dynamic Viscosity	594.69 cP to 813.8 cP	0.41 % of reading	Viscosity Oil Standards G350 and PRT Sensor Thermometer	ASTM D2162 ASTM D1200	F1, F3	F

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Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	34.22 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	43.8 mm²/ s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	121.7 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F

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Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	165.3 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	236.7 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	331.3 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F

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Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	753.6 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Kinematic Viscosity Zahn Cups 1 to 5 Ford Standard and Dip Type Cups 0 to 5 ISO Type Cup 3 mm, 4 mm, 6 mm, 8 mm DIN Type Cup 4 mm	1 035 mm²/s (cSt)	0.26 % of reading	Viscosity Oil Standards, PRT Sensor Thermometer and Stopwatch	ASTM D2162	F1, F3	F
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	5 % Volume	0.058 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O

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Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	10 % Volume	0.12 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	30 % Volume	0.35% of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	0 % Volume	0.07 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	5 % Volume	0.06 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O

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Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	15 % Volume	0.19 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	21 % Volume	0.25 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	23.8 % Volume	0.28 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (O_2) (Fixed Point)	0.0001 % mol	10 % of reading	Pre-mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (O_2) (Fixed Point)	0.001 % mol	2.0 % of reading	Pre-mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (O_2) (Fixed Point)	0.01 % mol	3.0 % of reading	Pre-mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O

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Chemical	Gas Detection Equipment (O_2) (Fixed Point)	0.05 % mol	1.5 % of reading	Pre-mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (O_2) (Fixed Point)	0.1 % mol	1.6 % of reading	Pre-mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO_2) (Fixed Point)	0.05 % mol	2.0 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment (CO) (Fixed Point)	0.01 % mol	1.2 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment- Propane (LEL) (Fixed Point)	0.52 % Volume (@ 25 % LEL – Low Explosive Limit)	0.006 % of reading	Pre-mixed Calibration Standard Gas BS EN 60079-29-4:2010 CSA Standard C22.2 No. 152-M1984	CEM-QU-012	F1, F3	F, O
Chemical	Gas Detection Equipment- (CH_4)	2.42 % Volume (@ 50 % LEL)	1.2 % of reading	Pre-Mixed Calibration Standard Gas	CEM-QU-012	F1, F3	F, O

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Chemical	Gas Detection Equipment- Propane (C_3H_8) (Fixed Point)	0.54 % Volume	0.006 % of reading	Standard Gas	QFD01 Internal Procedure	F1, F3, F4	F, O
Chemical	Gas Detection Equipment- Propane (C_3H_8) (Fixed Point)	0.54 % Volume	0.006 % of reading	Standard Gas	CEM-QU-012	F1, F3	F, O
Chemical	pH Meter (Fixed Points)	4 pH	0.011 pH	Buffer Solution	CENAM Technical Guide	F1, F3	F, O
Chemical	pH Meter (Fixed Points)	7 pH	0.011 pH	Buffer Solution	CENAM Technical Guide	F1, F3	F, O
Chemical	pH Meter (Fixed Points)	10 pH	0.011 pH	Buffer Solution	CENAM Technical Guide	F1, F3	F, O
Chemical	Electrolytic Conductivity	10 µS/cm	0.62 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O
Chemical	Electrolytic Conductivity	100 µS/cm	2.1 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O

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Chemical	Electrolytic Conductivity	1 000 µS/cm	4.7 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O
Chemical	Electrolytic Conductivity	1 500 µS/cm	4.7 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O
Chemical	Electrolytic Conductivity	10 000 µS/cm	41 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O
Chemical	Electrolytic Conductivity	100 000 µS/cm	370 µS/cm	Conductivity Solutions	CENAM Technical Guide	F1, F3	F, O
Optical	Luminance Meters and Sources (Wave Length)	2 Lux to 3 999 Lux	1 % of reading	Visible Light Meter Sonel LXP-10. Class A Sensor (425 nm to 700 nm)	NIST SP250-37	F1, F3	F
Optical	Luminance Meters and Sources (Wave Length)	4 000 Lux to 5 000 Lux	1.6 % of reading	Visible Light Meter Sonel LXP-10. Class A Sensor (425 nm to 700 nm)	NIST SP250-37	F1, F3	F
Optical	Gloss Meters (@ 20°)	92.29 GU	0.32 GU	Gloss Standards: GU Represents Gloss Units	ASTM D-523	F1, F3	F
Optical	Gloss Meters (@ 60°)	95.17 GU	0.31 GU	Gloss Standards: GU Represents Gloss Units	ASTM D-523	F1, F3	F

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Master Supply de México, S. de R.L. de C.V.

Calle Plátano # 6238, Colonia El Granjero
Cd. Juárez, Chihuahua, México. C.P. 32690
Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Optical	Gloss Meters (@ 85°)	100 GU	0.32 GU	Gloss Standards: GU Represents Gloss Units	ASTM D-523	F1, F3	F
Mass, Force and Weighting Devices	Analytical Balances	1 mg to 100 g (Res.= 0.000 1 g)	$(1 \times 10^{-4} + 3 \times 10^{-7}Wt)$ g	Verification with ASTM Class 1 Weights	Euramet cg-18	F1, F3	O
Mass, Force and Weighting Devices	Analytical Balances	0.05 kg to 0.5 kg (Res.= 0.001 g)	$(1 \times 10^{-6} + 1.2 \times 10^{-6}Wt)$ kg	Verification with ASTM Class 1 Weights	Euramet cg-18	F1, F3	O
Mass, Force and Weighting Devices	Scales	0.1 kg to 1 kg (Res.= 0.001 g)	$(1 \times 10^{-6} + 7.7 \times 10^{-7}Wt)$ kg	Verification with ASTM Class 1 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales	1 kg to 10 kg (Res.= 0.01 g)	$(1.8 \times 10^{-5} + 6.7 \times 10^{-6}Wt)$ kg	Verification with ASTM Class M1 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales	10 kg to 100 kg (Res.= 0.01 kg)	$(9.3 \times 10^{-4} + 1 \times 10^{-5}Wt)$ kg	Verification with ASTM Class M1 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales	50 kg to 500 kg (Res.= 0.1 kg)	$(9.7 \times 10^{-3} + 6.6 \times 10^{-6}Wt)$ kg	Parallelepiped ASTM Class M1 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales	0.5 lb to 50 lb (Res.= 0.001 lb)	$(1 \times 10^{-5} + 7.6 \times 10^{-7}Wt)$ lb	Class OIML F2 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O

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Mass, Force and Weighting Devices	Scales	50 lb to 500 lb (Res.= 0.01 lb)	$(3.4 \times 10^{-4} + 1.1 \times 10^{-5} Wt)$ lb	Class OIML F2 Weights	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales (Substitution Loads Method)	50 kg to 2 500 kg (Res.= 0.1 kg)	$(1.3 \times 10^{-1} + 3 \times 10^{-5} Wt)$ kg	Parallelepiped ASTM Class M1 Weights and Balanced Substitution Load	OIML R76-1 and OIML R 76-2	F1, F3	O
Mass, Force and Weighting Devices	Scales (Substitution Loads Method	500 kg to 5 000 kg (Res.= 1 kg)	$(1.3 + 1.5 \times 10^{-4} Wt)$ kg	Parallelepiped Mass Weight Set Class M1 and Balanced Substitution Loads	OIML R76-1 and OIML R 76-2	F1, F3	O
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	0.113 N•m to 1.13 N•m	0.03 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	1 lbf•in to 10 lbf•in	0.03 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	1.13 N•m to 2.82 N•m	0.03 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F

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Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	2.5 lbf•in to 25 lbf•in	0.03 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	2.82 N•m to 28.2 N•m	0.075 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	25 lbf•in to 250 lbf•in	0.075 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	28.2 N•m to 67.79 N•m	0.055 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	250 lbf•in to 600 lbf•in	0.055 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	67.79 N•m to 135.59 N•m	0.053 % of reading	Torque Calibration wheel or Arm and Weights	Euramet cg-14	F1, F3	F

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Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	600 lbf•in to 1 200 lbf•in	0.053 % of reading	Torque Calibration wheel or Arm and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	135.59 N•m to 542.32 N•m	0.016 % of reading	Torque Calibration Arm and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	1 200 lbf•in to 4 800 lbf•in	0.016 % of reading	Torque Calibration Arm and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	542.32 N•m to 813.49 N•m	0.053 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Transducers, Torque Analyzers (Clockwise and Counterclockwise)	135.58 lbf•in to 7 200 lbf•in	0.053 % of reading	Torque Calibration Wheel and Weights	Euramet cg-14	F1, F3	F
Mechanical	Torque Meters (Clockwise and counterclockwise)	0.113 N•m to 1.13 N•m	0.24 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O

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Mechanical	Torque Meters (Clockwise and counterclockwise)	1 lbf•in to 10 lbf•in	0.24 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	1.13 N•m to 2.83 N•m	0.1 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	10 lbf•in to 25 lbf•in	0.1 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	2.83 N•m to 28.3 N•m	0.08 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	25 lbf•in to 250 lbf•in	0.08 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	28.3 N•m to 67.8 N•m	0.07 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	250 lbf•in to 600 lbf•in	0.07 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and counterclockwise)	67.8 N•m to 135.6 N•m	0.1 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O

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Mechanical	Torque Meters (Clockwise and counterclockwise)	600 lbf•in to 1 200 lbf•in	0.1 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and Counterclockwise)	135.6 N•m to 542.33 N•m	0.13 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Torque Meters (Clockwise and Counterclockwise)	1 200 lbf•in to 4 800 lbf•in	0.13 % of reading	Torque Analyzer	ISO 6789	F1, F3	F, O
Mechanical	Volumetric Gas Flow Rate Meters	2.5 cm^3/min to 10 cm^3/min	0.26 % of reading	Gas Mass Flowmeter (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Rate Meters	10 cm^3/min to 500 cm^3/min	0.45 % of reading	Gas Mass Flowmeter (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Rate Meters	0.5 L/min to 20 L/min	0.46 % of reading	Gas Mass Flowmeter (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Rate Meters	8.3 L/min to 87.3 L/min	0.3 % of reading	Meriam LFE & Flow Computer System (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Rate Meters	84.8 L/min to 1 210 L/min	0.3 % of reading	Meriam LFE & Flow Computer System (Direct Comparison)	JIS B 7556	F1, F3	F, O

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Mechanical	Volumetric Gas Flow Rate Meters	0.1 mL/min to 500 mL/min	0.26 % of reading	USON Leak Rate Calibration Kit (Bubble Displacement Meter), Stopwatch	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Restrictors	0.01 cm^3/min to 10 cm^3/min	0.34 % of reading	Gas Mass Flowmeter Fluke Series 700 & 750 Pressure Modules (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Restrictors	10 cm^3/min to 500 cm^3/min	0.45 % of reading	Gas Mass Flowmeter Fluke Series 700 & 750 Pressure Modules (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Restrictors	0.5 L/min to 20 L/min	0.46 % of reading	Gas Mass Flowmeter Fluke Series 700 & 750 Pressure Modules (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Restrictors	8.3 L/min to 87.3 L/min	0.3 % of reading	Meriam LFE & Flow Computer System, Fluke series 700 & 750 Pressure Modules (Direct Comparison)	JIS B 7556	F1, F3	F, O

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Mechanical	Volumetric Gas Flow Restrictors	84.8 L/min to 1 210 L/min	0.3 % of reading	Meriam LFE & Flow Computer System, Fluke series 700 & 750 Pressure Modules (Direct Comparison)	JIS B 7556	F1, F3	F, O
Mechanical	Volumetric Gas Flow Restrictors	0.1 cm^3/min to 500 cm^3/min	0.26 % of reading	USON Leak Rate Calibration Kit (Bubble Displacement Meter) Stopwatch, Fluke Series 700 & 750 Pressure Modules	JIS B 7556	F1, F3	F, O
Mechanical	Gas Flow Rate in to Vacuum (Calibrated Leak Standard)	5×10^{-12} cm^3/s to 0.001 cm^3/s	8.1 % of reading	Mass Spectrometer, Calibrated Leak Standard	E499/E499M	F1, F3	F
Mechanical	Air Velocity Handheld: Rotational Anemometers Pressure Anemometer Tube Anemometer Thermoelectric Anemometer	4 m/s to 18 m/s	$(0.018 + 5.9 \times 10^{-3} v)$ m/s	Rotating Vane Anemometer Wind Tunnel	ASTM D6011	F1, F3	F
Mechanical	Vacuum Gages and Transducers (Air)	-6.894 kPa to 0.068 kPa	$(0.001\ 8 + 1 \times 10^{-4} P)$ kPa	750P22 Pressure Transducer	ASME B40.100	F1, F3	F, O
Mechanical	Vacuum Gages and Transducers (Air)	-1 psi to 0.01 psi	$(2.6 \times 10^{-4} + 1.4 \times 10^{-5} P)$ psi	750P22 Pressure Transducer	ASME B40.100	F1, F3	F, O

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Mechanical	Vacuum Gages and Transducers (Air)	-90.1 kPa to -9 kPa	(0.001 6 + 1.1 x 10^{-5}P) kPa	Fluke PM500-BG1M Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Vacuum Gages and Transducers (Air)	-13.06 psi to -1.3 psi	(2.3 x 10^{-4}+ 1.5 x 10^{-6}P) psi	Fluke PM500-BG1M Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Vacuum Gauges and Transducer	-497.68 Pa to -24.88 Pa	(0.011 + 3.1 x 10^{-6}P) Pa	Dwyer Portable Electronic Point Gage	ASME B40.100	F1, F3	F
Mechanical	Pressure Gauges and Pressure Transducers (Air or Nitrogen)	0.068 kPa to 6.894 kPa	(0.001 8 + 1 x 10^{-4}P) kPa	750P22 Pressure Transducer	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air or Nitrogen)	0.01 psi to 1 psi	(0.00026 + 1.4 x 10^{-5}P) psi	750P22 Pressure Transducer	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air or Nitrogen)	10.3 kPa to 103.4 kPa	(0.024 + 3.5 x 10^{-5}P) kPa	700PD4 Pressure Transducer Fluke 700PCK Kit	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air or Nitrogen)	1.5 psi to 15 psi	(0.003 5 + 5.1 x 10^{-6}P) psi	700PD4 Pressure Transducer Fluke 700PCK Kit	ASME B40.100	F1, F3	F, O

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Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	20 kPa to 200 kPa	0.001 1 % of reading + 0.001 2 kPa	Fluke PM500-G200K Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	3 psi to 29 psi	0.001 1 % of reading + 0.000 174 psi	Fluke PM500-G200K Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	200 kPa to 1 000 kPa	0.001 4 % of reading + 0.003 9 kPa	Fluke PM500-BG1M Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	29 psi to 145 psi	0.001 4 % of reading + 0.000 57 psi	Fluke PM500-BG1M Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	1 000 kPa to 7 004 kPa	0.001 5 % of reading + 0.041 kPa	Fluke PM500-BG7M Pressure Measurement Module	ASME B40.100	F1, F3	F, O

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Mechanical	Pressure Gauges and Pressure Transducers (Air, Nitrogen or Non-Corrosive Gas or Compatible)	145 psi to 1 015.26 psi	0.001 5 % of reading + 0.005 95 psi	Fluke PM500-BG7M Pressure Measurement Module	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	689.5 kPa to 6895 kPa	$(0.62 + 2.3 \times 10^{-4}P)$ kPa	Fluke 754 Process Calibrator 700P08 Pressure Transducer	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	100 psi to 1 000 psi	$(0.09 + 3.3 \times 10^{-5}P)$ psi	Fluke 754 Process Calibrator 700P08 Pressure Transducer	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	2 068 kPa to 20 684 kPa	$(6.3 + 1.4 \times 10^{-4}P)$ kPa	Fluke 750R29 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	300 psi to 3 000 psi	$(0.91 + 2 \times 10^{-5}P)$ psi	Fluke 750R29 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O

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Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	3 447 kPa to 34 474 kPa	(1.1 + 2.8 x 10^{-4}P) kPa	Fluke 750P30 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	500 psi to 5 000 psi	(0.16 + 4 x 10^{-5}P) psi	Fluke 750P30 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	6 895 kPa to 68 948 kPa	(6.2 + 1.6 x 10^{-4}P) kPa	Fluke 750P31 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gauges and Transducers (Gas & Liquid Compatible Media)	1 000 psi to 10 000 psi	(0.9 + 2.3 x 10^{-5}P) psi	Fluke 750P31 Pressure Transducer + Digital Calibrator (indicator)	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gages and Transducer (Air, Nitrogen, or non-corrosive Gases)	0.5 Pa to 497.68 Pa	(0.011 + 3.1 x 10^{-6}P) Pa	Dwyer Portable Electronic Point Gage	ASME B40.100	F1, F3	F, O
Mechanical	Pressure Gages and Transducer (Air, Nitrogen, or non-corrosive Gases)	0.002 inH_2O to 2 inH_2O	(4.4^{-5} + 1.2 x 10^{-8}P) inH_2O	Dwyer Portable Electronic Point Gage	ASME B40.100	F1, F3	F, O

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Calle Plátano # 6238, Colonia El Granjero
Cd. Juárez, Chihuahua, México. C.P. 32690
Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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Mechanical	Barometer and Absolute Pressure Gauges	0.075 kPa to 120 kPa	0.006 kPa	Absolute Pressure Measurement Module PM500-A120K	OIML R 97 and CENAM Technical Guide	F1, F3	F
Mechanical	Baumanometer (Pressure)	1 mmHg to 300 mmHg	$(0.6 + 1.6 \times 10^{-4}P)$ mmHg	Fluke 750P22, Fluke PM500-G200K, calibration system.	Internal Procedure TPR03 Manufacturer's Manual	F1, F3, F4	F
Mechanical	Force Gauges (Tension and Compression)	0.098 N to 0.981 N (Res.= 0.001 N)	$(6.1 \times 10^{-4} + 9.4 \times 10^{-4}F)$ N	OIML Class M1 Weights	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	0.981 N to 9.806 N (Res. = 0.001 N)	$(1.1 \times 10^{-2} + 7.7 \times 10^{-4}F)$ N	OIML Class M1 Weights	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	9.806 N to 98.06 N (Res.= 0.01 N)	$(0.01 + 2 \times 10^{-5}F)$ N	Class M1 Weights	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	98.06 N to 216 N (Res.= 0.01 N)	$(0.015 + 2.3 \times 10^{-5}F)$ N	Class ASTM3 Weights	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	500 N to 5 000 N (Res.= 0.01 N)	$(0.06 + 3.8 \times 10^{-5}F)$ N	Force Transducer HBM S9M	ISO 376	F1, F3	F, O

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Mechanical	Force Gauges (Tension and Compression)	216 N to 2 224 N (Res.= 0.1 N)	$(0.07 + 1.5 \times 10^{-4}F)$ N	Class ASTM7 Weights	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	5 000 N to 50 000 N (Res.= 0.1 N)	$(3 + 4.8 \times 10^{-5}F)$ N	Force Transducer HBM S9M	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	4 448 N to 22 241 N (Res.= 1 N)	$(1.9 + 1.6 \times 10^{-3}F)$ N	MARK-10 Load Cell	ISO 376	F1, F3	F, O
Mechanical	Force Gauges (Tension and Compression)	8 896 N to 88 964 N (Res.= 1 N)	$(17 + 1.1 \times 10^{-3}F)$ N	Transducer Techniques Load Cell & Indicator	ISO 376	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	0.889 N to 8.896 N (Res.= 0.001 N)	$(1.4 \times 10^{-4} + 1.1 \times 10^{-3}F)$ N	OIML Class M1 Weights	ISO 7500-1	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	8.896 N to 88.964 N (Res.= 0.01 N)	$(0.015 + 1.5 \times 10^{-5}F)$ N	OIML Class M1 Weights	ISO 7500-1	F1, F3	F, O

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Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	22.241 N to 222.410 N (Res.= 0.01 N)	$(0.015 + 2.6 \times 10^{-5}F)$ N	NIST Class F Weights	ISO 7500-1	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	222.41 N to 2 224 N (Res.= 0.1 N)	$(0.1 + 2 \times 10^{-4}F)$ N	Honeywell Load Cell	ISO 7500-1	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	445 N to 4 448 N (Res.= 1 N)	$(0.9 + 8.1 \times 10^{-4}F)$ N	Honeywell Load Cell	ISO 7500-1	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	4 448 N to 44 482 N (Res.= 1 N)	$(4.4 + 2.2 \times 10^{-4}F)$ N	Honeywell Load Cell	ISO 7500-1	F1, F3	F, O
Mechanical	Digital and Analog Dynamometers and Force Gauges Tools (Tension and Compression)	44 482 N to 88 964 (Res.= 1 N)	$(28 + 2.4 \times 10^{-7}F)$ N	Honeywell Load Cell	ISO 7500-1	F1, F3	F, O

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Mechanical	Hydraulic Mass and Volumetric Flow Meters (Direct Comparison Method)	0.05 kg/s to 5 kg/s (3.44 to 300 l/min)	0.072 % of reading	Endress & Hauser Coriolis Flow Meter	CENAM Technical Guide	F1, F3	F, O
Mechanical	Hydraulic Mass and Volumetric Flow Meters	0.015 kg/min to 0.2 kg/min	0.009 % of reading	Tree Digital Scale Gravimetric Method	CENAM Technical Guide	F1, F3	F, O
Mechanical	Hydraulic Mass and Volumetric Flow Meters	0.2 kg/min to 2.2 kg/min	0.012 % of reading	OHAUS Navigator Digital Scale Gravimetric Method	CENAM Technical Guide	F1, F3	F, O
Mechanical	Hydraulic Mass and Volumetric Flow Meters	2.2 kg/min to 13.67 kg/min	0.013 % of reading	Transcell Technology Digital Scale Gravimetric Method	CENAM Technical Guide	F1, F3	F, O
Thermodynamic	Relative Humidity Measuring Equipment	11 % RH to 95 % RH	$(0.58 + 3 \times 10^{-3}H)$ % RH	Digital Humidity Meter Vaísala MI70/HMP75 Constant Climate Chamber	CENAM Technical Guide	F1, F3	F
Thermodynamic	Low temperature Chambers and Freezer (Direct Comparison)	-75 °C to 0.002 °C	0.044 % of reading	Hart Scientific 1502 Thermometer	ASME B40.200	F1, F3	O

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Thermodynamic	Thermometers, Dial and Liquid in Glass (Direct Comparison)	-25 °C to 0.002 ºC	0.09 % of reading	Hart Scientific 1502Thermometer Constant Temperature Circulating Bath, Kaye LTR -25/140 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Thermometers, Dial and Liquid in Glass (Direct Comparison)	0.002 °C to 100 ºC	0.022 % of reading	Hart Scientific 1502 Thermometer, Constant Temperature Circulating Bath, Kaye LTR -25/140 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Thermometers, Dial and Liquid in Glass (Direct Comparison)	100 °C to 300 ºC	0.29 % of reading	Hart Scientific 1502 Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Thermometers, Dial and Liquid in Glass (Direct Comparison)	300 °C to 500 ºC	0.021 % of reading	Hart Scientific 1502 Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Chambers and Ovens	0.1 °C to 500 °C	0.15 % of reading	Hart Scientific 1502 w/PRT PT100 Sensor	ASME B40.200	F1, F3	F, O
Thermodynamic	High Temperature Thermometers, Chambers and Ovens (Direct Comparison)	300 °C to 500 ºC	0.021 % of reading	Hart Scientific 1502 w/PRT PT100 Sensor and Jafra 601 Dry Well	ASME B40.200	F1, F3	F, O

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Thermodynamic	High Temperature Thermometers, Chambers and Ovens (Direct Comparison)	420 °C to 930 ºC	0.19 % of reading	Hart Scientific 1502 w/PRT PT100 Sensor and Jafra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	High Temperature Thermometers, Chambers and Ovens (Direct Comparison)	400 °C to 1 300 °C	0.19 % of reading	Fluke 754 w/TC "Type K" Sensor	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 100 Ω	-25 °C to 0 ºC	$(0.017 + 2.7 \times 10^{-4}T)$ °C	Hart Scientific 1502 Precision Thermometer, Kaye -25/140 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 100 Ω	0 °C to 140 ºC	$(0.018 + 6.7 \times 10^{-5}T)$ °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 100 Ω	140 °C to 500 ºC	$(0.002 + 1.5 \times 10^{-4}T)$ °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 1 000 Ω	-25 °C to 0 ºC	$(0.017 + 2.7 \times 10^{-4}T)$ °C	Hart Scientific 1502 Precision Thermometer, Kaye -25/140 Dry Well	ASME B40.200	F1, F3	F, O

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Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 1 000 Ω	0 °C to 140 ºC	(0.018 + 6.7 x 10^{-5}T) °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 385, 1 000 Ω	140 °C to 500 ºC	(0.002 + 1.5 x 10^{-4}T) °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 3 926, 100 Ω	-25 °C to 0 ºC	(0.017 + 2.7 x 10^{-4}T) °C	Hart Scientific 1502 Precision Thermometer, Kaye -25/140 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 3 926, 100 Ω	0 °C to 140 ºC	(0.018 + 6.7 x 10^{-5}T) °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	Temperature Measurement Calibration of RTD Sensors Pt 3 926, 100 Ω	140 °C to 500 ºC	(0.002 + 1.5 x 10^{-4}T) °C	Hart Scientific 1502 Precision Thermometer, Jofra 601 Dry Well	ASME B40.200	F1, F3	F, O
Thermodynamic	IR Temperature Meters	35 °C to 500 °C	(0.97 + 7 x 10^{-4}T) °C	Fluke 4181 IR Calibrator, Hart Scientific 1502 Precision Thermometer	JIS C 1612	F1, F3	F, O

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Thermodynamic	High Temperature Sensors (Thermocouple)	200 °C to 950 °C	0.57 °C	Isotech Dry Block Temperature Calibrator Calibrated Thermocouple 6.5-Digit Multimeter	ASME B40.200	F1, F3	F
Thermodynamic	High Temperature Sensors (Thermocouple)	950 °C to 1 200 °C	0.67 °C	Isotech Dry Block Temperature Calibrator Calibrated Thermocouple 6.5-Digit Multimeter	ASME B40.200	F1, F3	F
Time and Frequency	Time Marker Output	2 ns to 20 ms	2.5 µs/s	Philips 6669 Timer/Counter	NIST 960	F1, F3	F, O
Time and Frequency	Timers, Counters and Stopwatches	1 s to 86 400 s	$(0.6 + 3.4 \times 10^{-7} t)$ ms	Philips 6669 Timer/Counter Agilent 33220A Func. Generator	NIST SP 960-12	F1, F3	O
Time and Frequency	Crosshead Travel Speed	0.05 mm/min to 100 mm/min	4.88 x 10-5 mm/min	Gage Block, Stopwatch	ASTM E2658	F1, F3	O
Time and Frequency	Crosshead Travel Speed	10 mm/min to 2 000 mm/min	1.73 x 10-2 mm/min	Gage Block, Stopwatch	ASTM E2658	F1, F3	O
Time and Frequency	Optical Tachometer and Tachometer Contact	0.1 rad/s to 10 470 rad/s	$(0.008\ 6 + 6.6 \times 10^{-9} \omega)$ rad/s	Monarch digital tachometer and Monarch Palm Strobe	CENAM Technical Guide	F1, F3	F, O

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Time and Frequency	Optical Non-Contact Tachometer	1 309 rad/s to 10 470 rad/s	0.06 rad/s	Agilent 53131A Philips 6669 Timer/ Counter Agilent 33220A Function Generator	CENAM Technical Guide	F1, F3	F, O
Time and Frequency	Rotation Measurement Speed, Line Speed, Centrifuges Rotation Speed	0.1 rad/s to 2 094 rad/s	$(0.011 + 9.2 \times 10^{-6}\omega)$ rad/s	Tachometer Monarch PLT200 MVR01	CENAM Technical Guide	F1, F3	F, O
Time and Frequency	Rotation Velocity Measurement and Centrifuges Rotation Speed	0.1 rad/s to 2 094 rad/s	0.017 rad/s	Monarch Digital tachometer and Monarch Palm Strobe MVR01	CENAM Technical Guide	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometers Amplitude (@ 0.7 Hz to 10 kHz)	1.94 m/s^2 to 196 m/s^2	1.5 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	0.7 Hz to 1 Hz	1.8 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	1 Hz to 30 Hz	1 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O

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Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	30.01 Hz to 199 Hz	1.5 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	300 Hz to 1 kHz	3 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	1 kHz to 10 kHz	2.5 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Accelerometers and Vibrometer Frequency (Operating Amplitude 1.94 m/s^2 to 196 m/s^2)	10 kHz to 15 kHz	5 % of reading	Modal Shop 9110D Accelerometer Calibrator and PCB Master Accelerometer	ISO 16063-21	F1, F3	F, O
Time and Frequency	Equipment to Measure Frequency	1 Hz to 10 Hz	57 µHz	Keysight 33511B	Manufacturer's manual Performance	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	100 Hz to 1 kHz	58 µHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 kHz to 10 kHz	51 µHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O

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Time and Frequency	Equipment to Measure Frequency	10 kHz to 100 kHz	16 µHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	100 kHz to 1 MHz	1.21×10^{-4} kHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 MHz to 10 MHz	3.52×10^{-6} MHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	10 MHz to 20 MHz	3.52×10^{-6} MHz	Keysight 33511B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	20 MHz to 100 MHz	3.58×10^{-5} MHz	Agilent 8648C	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	100 MHz to 1 GHz	3.56×10^{-5} MHz	Agilent 8648C	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 GHz to 3 GHz	3.59×10^{-5} MHz	Agilent 8648C	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	3 GHz to 10 GHz	1.06×10^{-5} GHz	HP 8340B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	10 GHz to 15 GHz	1.05×10^{-5} GHz	HP 8340B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	15 GHz to 26.5 GHz	1.29×10^{-5} GHz	HP 8340B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency Counter	Up to 225 MHz	0.02 mHz	HP 53132A HP 5350B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency Counter	225 MHz to 5 GHz	0.0013Hz	HP 53132A HP 5350B	Manufacturer's manual	F1, F2	F, O

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Time and Frequency	Equipment to Measure Frequency Counter	5 GHz to 20 GHz	0.0012 Hz	HP 53132A HP 5350B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Sweep Time	5 ms to 10 s	0.17% of reading	Rohde FSP38	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Pulse Modulation	100 ns to 5 µs	0.003 µs + 0.05 % of reading	HP 8340B	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency Modulation (@ 250 kHz to 10 MHz)	20 Hz to 10 kHz Rate Up to 40 kHz $_{peak}$ Dev	0.06 Hz + 0.05 % of reading	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Output Rise Time	≥300 ps	4.1 ps	Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Rise Time	≥75 ps	7.9 ps	Keysight Infini vision Oscilloscope	Manufacturer's manual	F1, F2	F, O
Electrical	Power Supply AC/DC Current (@ 100 Hz to 5 kHz)	1 A to 10 A	9.5 x 10^{-6} A/A + 0.005 8 A	Precision Current Shunt Resistor and HP 3458A Multimeter	CENAM Technical Guide	F1, F3	F, O
Electrical	Power Supply AC/DC Current (@ 100 Hz to 5 kHz)	10 A to 60 A	1.3 x 10^{-5} A/A + 0.023 A	Precision Current Shunt Resistor and HP 3458A Multimeter	CENAM Technical Guide	F1, F3	F, O
Electrical	Power Supply AC/DC Current (@ 100 Hz to 5 kHz)	60 A to 300 A	1.1 x 10^{-3} A/A + 0.002 5 A	Precision Current Shunt Resistor and HP 3458A Multimeter	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage (ESD Charge Ionizers)	100 V to 5 000 V	0.04 V/kV + 7 x 10^{-4} kV	ION Systems 91-0210	CENAM Technical Guide	F1, F3	F, O

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Electrical	Equipment to Measure Capacitance	0.19 nF to 3.3 nF	0.1 pF/nF + 0.7 pF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 11 nF	0.003 pF/nF + 1 pF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 nF to 33 nF	0.0002 pF/nF + 1 pF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 330 nF	0.019 pF/nF + 0.37 pF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 µF to 1.1 µF	0.027 nF/µF + 0.062 nF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1.1 µF to 3.3 µF	0.002 nF/µF + 0.1 nF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 µF to 11µF	0.046 nF/µF + 0.55 nF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 µF to 33 µF	0.015 nF/µF + 1.2 nF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O

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Electrical	Equipment to Measure Capacitance	33 µF to 330 µF	0.072 nF/µF + 7.7 nF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.33 mF to 3.3 mF	0.15 µF/mF + 0.057 µF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	3.3 mF to 11 mF	0.14 µF/mF + 0.46 µF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	11 mF to 33 mF	0.24 µF/mF + 1.7 µF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	33 mF to 110 mF	0.044 µF/mF + 6.9 µF	Fluke 5520A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Measure Resistance	100 µΩ to 100 mΩ	0.002 µΩ/mΩ + 0.000 2 µΩ	Precision High Power Calibration Resistors Precision Decade Resistor	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	600 °C to 800 °C	0.44 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	0.34 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	1 000 °C to 1 550 °C	0.3 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	1 550 °C to 1 820°C	0.33 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	-250 °C to -100 °C	0.5 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.14 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.21 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.27 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	150°C to 760 °C	0.14 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.17 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.33 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.18 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	-25 °C to 120 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.26 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.4 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.4 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	-100 °C to -25 °C	0.22 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	-25 °C to 120 °C	0.19 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	120 °C to 410 °C	0.18 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.27 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.48 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.28 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.33 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.4 °C	Fluke 5520A Equipment Simulation of Thermocouple Output ITS-90	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.47 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	250 °C to 1 000 °C	0.36 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	1 000 °C to 1 400 °C	0.37 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	1 400 °C to 1 767 °C	0.46 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.63 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type U	-200 °C to 0 °C	0.56 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type U	0 °C to 600 °C	0.27 °C	Fluke 5520A Equipment Simulation of Thermocouple Output	ITS-90 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	630 °C to 800 °C	0.08 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	-200 °C to -80 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	-80 °C to 0 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	0 to °C 100 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	100 °C to 300 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	300 °C to 400 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 100 Ω	400 °C to 630 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	-200 °C to -80 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	-80 °C to 0 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	0 to °C 100 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	100 °C to 300 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	300 °C to 400 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 3926, 100 Ω	400 °C to 630 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	-200 °C to -190 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	-190 °C to -80 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	-80 °C to 0 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	0 to °C 100 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	100 °C to 260 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	260 °C to 300 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	300 °C to 400 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	400 °C to 600 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 Ω	600 °C to 630 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	-200 °C to -80 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	-80 °C to 0 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	0 °C to 100 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	100 °C to 260 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	260 °C to 300 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	300 °C to 400 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	400 °C to 600 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 500 Ω	600 °C to 630 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD Output	CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	-200 °C to -80 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	-80 °C to 0 °C	0.01 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	0 °C to 100 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	100 °C to 260 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	260 °C to 300 °C	0.02 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	300 °C to 400 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	400 °C to 630 °C	0.07 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Pt 385, 1 000 Ω	600 °C to 630 °C	0.08 °C	Fluke 5520A Electrical Simulation of RTD	ASTM E 644-11 CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Level Sine Amp) (@ 50 kHz reference)	10 mv to 5 Vp-p	2 % of reading + 300 µV	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Measure Leveled Sine Wave Voltage Amplitude) (@ 50 kHz)	5 mV to 10 mV	0.56 % of reading + 15 µV	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Measure Leveled Sine Wave Voltage Amplitude) (@ 50 kHz)	10 mV to 100 mV	0.44 % of reading + 32 µV	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Measure Leveled Sine Wave Voltage Amplitude) (@ 50 kHz)	0.1 V to 1 V	0.07 % of reading + 2.6 µV	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O

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Electrical	Oscilloscopes (Measure Leveled Sine Wave Voltage Amplitude) (@ 50 kHz)	1 V to 5 V	0.1 % of reading + 0.87 mV	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Level Sine Wave Frequency)	50 kHz to 500 kHz	0.001 8 % of reading + 7.1 µHz	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Level Sine Wave Frequency)	500 kHz to 5 MHz	0.002 2 % of reading + 1.9 mHz	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Level Sine Wave Frequency)	5 MHz to 500 MHz	0.019 % of reading+ 4.9 mHz	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Input Z) (Impedance) (Resistance)	41.29 Ω to 60.315 Ω	0.000 7 % of reading + 1.4 mΩ	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Input Z) (Impedance) (Resistance)	60.315 Ω to 610 510 Ω	0.000 02 % of reading + 1.2 Ω	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Oscilloscopes (Input Z) (Impedance) (Resistance)	610 510 Ω to 1 522 915 Ω	0.006 9 % of reading + 34 Ω	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O

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Electrical	Oscilloscopes (Level Sine Flatness LF)	500 kHz to 10 MHz	0.18 % of reading	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Calibrate Oscilloscopes (Level Sine Flatness HF) (@ 7.5 mV to 5.5 V)	30 MHz to 300 MHz	0.56 % of reading	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	Calibrate Oscilloscopes – Level Sine Flatness HF (@ 7.5 mV to 5.5 V)	300 MHz to 600 MHz	0.56 % of reading	Fluke 5520A/SC600	CENAM Technical Guide	F1, F3	F, O
Electrical	AC Clamp-On Meters (@ 45 Hz to 1 kHz)	16.5 A to 1 000 A	0.45 % of reading + 0.5 A	Fluke 5520A Fluke 5500-COIL	CENAM Technical Guide	F1, F3	F, O
Electrical	Electrical Patient Simulator (ECG Amplitude)	50 µV to 700 mV	1 µV + 0.09 µV/V	Digital Oscilloscope, Fluke 8588A Multimeter, A-M Systems 3000 Differential Amplifier	CENAM Technical Guide	F1, F3	F
Electrical	Electrical Patient Simulator (Respiration Resistance)	0.1 Ω to 2 000 Ω	03 µΩ + 0.13 µΩ/Ω	Fluke 8588A Multimeter, A-M Systems 3000 Differential Amplifier	CENAM Technical Guide	F1, F3	F

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Electrical	Equipment to Source DC/AC (High Voltage)	50 V to 6 kV	4.3×10^{-6} V/V + 0.007 6 V	3458A and High Prove-Voltage	CENAM Technical Guide	F1, F3	F, O
Electrical	Pulse Generators (AC/DC High Voltage) (>20 ps)	Up to 4 000 V	4.3×10^{-6} V/V + 0.007 6 V	Digital Oscilloscope, High Voltage Probe Tektronix P5210A	CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	1 pF to 1 000 pF	2×10^{-3} pF + 0.03 % of reading	Standard Capacitor E4980A LCR Meter	NIST 250-52 and STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	1 nF to 100 nF	2×10^{-4} nf + 0.02 % of reading	Standard Capacitor E4980A LCR Meter	NIST 250-52 and STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	0.1 µF to 10 µF	1×10^{-4} µF + 0.02 % of reading	Standard Capacitor E4980A LCR Meter	NIST 250-52 and STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	50 µH to 500 µH	2.9×10^{-5} µH + 0.06 % of reading	Standard Inductor E4980A LCR Meter	STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	500 µH to 5 000 µH	4.1×10^{-6} µH + 0.06 % of reading	Standard Inductor E4980A LCR Meter	STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	5 mH to 500 mH	3.6×10^{-4} mH + 0.06 % of reading	Standard Inductor E4980A LCR Meter	STR171	F1, F3	F, O

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Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	500 mH to 2 000 mH	4×10^{-6} mH + 0.06 % of reading	Standard Inductor E4980A LCR Meter	STR171	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	50 µH to 500 µH	4×10^{-3} µH + 0.06 % of reading	E4980A LCR Meter	NIST 250-52 and STR171 CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	500 µH to 5 000 µH	3.7×10^{-6} µH + 0.06 % of reading	E4980A LCR Meter	NIST 250-52 and STR171 CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	5 mH to 500 mH	3.2×10^{-4} mH + 0.06 % of reading	E4980A LCR Meter	NIST 250-52 and STR171 CENAM Technical Guide	F1, F3	F, O
Electrical	Equipment to Output Capacitance (@ 100 Hz to 1 MHz)	500 mH to 2 000 mH	5.2×10^{-7} mH + 0.06 % of reading	E4980A LCR Meter	NIST 250-52 and STR171 CENAM Technical Guide	F1, F3	F, O

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Electrical	Equipment to Output DC Voltage	600 µV to 600 mV	3.5 µV/V + 0.9 µV	Fluke 8588A	Manufacturer's manual Performance	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	0.6 V to 6 V	5 µV/V + 52 nV	Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	6 V to 60 V	4.6 µV/V + 28 µV	Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	60 V to 600 V	5.1 µV/V + 7.1 µV	Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	600 V to 1 050 V	8.9 µV/V + 0.7 mV	Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	600 µV to 600 mV	31 µV/V + 0.36 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	0.6 V to 6 V	27 µV/V + 7.6 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	6 V to 60 V	27 µV/V + 7 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	60 V to 600 V	13 µV/V + 0.87 mV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output AC Voltage (@ 10 Hz to 40 Hz)	600 V to 1 050 V	16 µV/V + 1.5 mV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 50 kHz)	600 µV to 600 mV	7.2 µV/V + 0.4 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 50 kHz)	0.6 V to 6 V	6.6 µV/V + 4.8 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 50 kHz)	6 V to 60 V	9.7 µV/V + 14 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 50 kHz)	60 V to 600 V	22 µV/V + 0.77 mV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 50 kHz)	600 V to 1 050 V	43 µV/V -13 mV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 300 kHz)	600 µV to 600 mV	49 µV/V + 0.42 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 300 kHz)	0.6 V to 6 V	26 µV/V + 0.58 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output AC Voltage (@ 50 kHz to 300 kHz)	6 V to 60 V	33 µV/V + 40 µV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 300 kHz)	60 V to 600 V	48 µV/V + 0.93 mV	Fluke 5790B/AF Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	600 µV to 600 mV	140 µV/V + 2.7 µV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	0.6 V to 6 V	251 µV/V + 67 µV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	6 V to 60 V	4.6 µV/V + 28 µV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 50 MHz)	1 mV to 100 mV	200 µV/V + 0.12µV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 50 MHz)	0.1 V to 1 V	200 µV/V + 1 nV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 50 MHz)	1 V to 3.2 V	1.8 mV/V + 0.15 mV	Fluke 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	10 µA to 1 mA	136 µA/A + 8 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	1 mA to 50 mA	33 µA/A + 85 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	50 mA to 500 mA	44 µA/A + 480 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	0.5 A to 5 A	129 µA/A +43 µA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	5 A to 10 A	130 µA/A + 40 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	10 A to 20 A	101 µA/A + 2.5 µA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	10 µA to 1mA	219 µA/A + 12nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	1 mA to 50 mA	33 µA/A + 85 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	50 mA to 500 mA	44 µA/A + 490 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	0.5 A to 5 A	128 µA/A + 42 µA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	5 A to 10 A	130 µA/A + 39 nA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 40 Hz to 50 kHz)	10 A to 20 A	101 µA/A + 2.5 µA	Fluke 8588A Fluke 5790B/AF, Fluke A40s Current Shunts	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.1 µA to 10 µA	0.002 3 nA/µA + 0.012 nA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	10 µA to 200 µA	5.8 µA/A + 0.23 nA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	200 µA to 2 000 µA	5.9 µA/A + 0.22 nA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	2 mA to 20 mA	5.5 µA/A + 0.3 nA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output DC Current	20 mA to 200 mA	14 µA/A + 0.15 µA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.2 A to 2 A	42 µA/A + 5.8 µA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	2 A to 10 A	47 µA/A + 15 µA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output DC Current	10 A to 30 A	82 µA/A + 0.37 mA	Fluke 8588A, Fluke 5730A, Ohm Labs Resistors	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	100 µΩ to 1 Ω	3.4 µΩ/Ω + 0.9 µΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 Ω to 2 Ω	5.6 µ Ω/Ω + 4.3 µΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	2 Ω to 20 Ω	2.3 µ Ω/Ω + 11 µΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output Resistance	20 Ω to 200 Ω	1.9 μΩ/Ω + 19 μΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	200 Ω to 2 kΩ	1.4 μΩ/Ω + 0.12 mΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	2 kΩ to 20 kΩ	2 μΩ/Ω + 1 mΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	20 kΩ to 200 kΩ	2.1 μΩ/Ω + 3.4 mΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	200 kΩ to 2 MΩ	4.2 μΩ/Ω + 0.4 Ω	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	2 MΩ to 20 MΩ	8.3 μΩ/Ω + 7.3 Ω	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output Resistance	20 MΩ to 100 MΩ	61μΩ/Ω + 1 kΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	0.1 GΩ to 1 GΩ	87 μΩ/Ω + 5.2 kΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 GΩ to 10 GΩ	0.26 mΩ/Ω + 0.18 MΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 GΩ to 100 GΩ	1.1 mΩ/Ω + 8.4 MΩ	Electrical Simulation Fluke 8588A Keithley 6514 System Electrometer	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance (Fixed Resistors)	100 GΩ to 1 TΩ	3.4 μΩ/Ω + 0.9 μΩ	Fluke 5730A Keithley 6514 Ohm Law	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance (Fixed Resistors)	1 TΩ to 10 TΩ	5.6 μ Ω/Ω + 4.3 μΩ	Fluke 5730A Keithley 6514 Ohm Law	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Resistance (Fixed Resistors)	10 TΩ to 50 TΩ	4.2 μΩ/Ω + 0.4 Ω	Fluke 5730A Keithley 6514 Ohm Law	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure DC Voltage	10 µV to 100 µV	2.8 µV/V + 0.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	100 µV to 1 000 µV	2.5 µV/V + 0.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 mV to 10 mV	2.5 µV/V + 0.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	10 mV to 100 mV	2.6 µV/V + 0.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	0.1 V to 1 V	1.4 µV/V + 0.32 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 V to 10 V	0.85 µV/V + 0.75 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	10 V to 100 V	1.6 µV/V -0.64 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	100 V to 1 000 V	1.5 µV/V -1.4 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (Fixed Points)	100 mV	5 µV/V	Fluke 732C/C	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (Fixed Points)	1 V	0.4 µV/V	Fluke 732C/C	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (Fixed Points)	10 V	0.3 µV/V	Fluke 732C/C	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure DC Voltage (Characterized Points)	10 V to 100 V	1.5 µV/V + 3 µV	Fluke 732C/C Fluke 720A Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (Characterized Points)	100 V to 1 000 V	0.19 µV/V + 19 µV	Fluke 732C/C Fluke 720A Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz)	2 mV to 20 mV	70 µV/V + 0.51µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz)	20 mV to 200 mV	39 µV/V + 1.1 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz)	0.2 V to 2 V	34 µV/V + 2.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz)	2 V to 20 V	34 µV/V + 2.2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz)	20 V to 200 V	47 µV/V + 0.27 mV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz)	2 mV to 20 mV	48 µV/V + 0.55 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz)	20 mV to 200 mV	29 µV/V + 0.92 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 20 Hz)	0.2 V to 2 V	24 µV/V + 2 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz)	2 V to 20 V	24 µV/V + 1.1 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz)	20 V to 200 V	18 µV/V + 0.12 mV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	2 mV to 20 mV	36 µV/V + 0.58 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	20 mV to 200 mV	17 µV/V + 0.97 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	0.2 V to 2 V	19 µV/V + 0.56 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	2 V to 20 V	18 µV/V + 2.2 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	20 V to 200 V	22 µV/V + 78 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 20 kHz)	200 V to 1 000 V	19 µV/V + 2 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	2 mV to 20 mV	64 µV/V + 0.53 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	20 mV to 200 mV	24 µV/V + 1.3 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.2 V to 2 V	14 µV/V + 3.2 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	2 V to 20 V	5 µV/V + 0.22 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	20 V to 200 V	15 µV/V + 22 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	200 V to 300 V	103 µV/V + 10 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	300 V to 600 V	72 µV/V + 0.82 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	300 V to 1 000 V	16 µV/V + 15 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	2 mV to 20 mV	117 µV/V + 0.77 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	20 mV to 200 mV	39 µV/V + 2.3 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.2 V to 2 V	22 µV/V + 5.7 µV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	2 V to 20 V	21 µV/V + 6.7 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	20 V to 200 V	37 µV/V+ 0.31 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	200 V to 300 V	182 µV/V + 15 mV	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	300 V to 600 V	505 µV/V + 0.11 V	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	2 mV to 20 mV	0.23 mV/V + 0.74 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	20 mV to 200 mV	150 µV/V + 2.4 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	0.2 V to 2 V	71 µV/V + 18 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz)	2 V to 20 V	91 µV/V + 22 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 300 kHz to 1 MHz)	2 mV to 20 mV	0.48 mV/V + 4.3 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 300 kHz to 1 MHz)	20 mV to 200 mV	0.41 mV/V + 5.8 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 300 kHz to 1 MHz)	0.2 V to 2 V	0.45 mV/V + 1.1 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 300 kHz to 1 MHz)	2 V to 20 V	0.51 mV/V + 120 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 1 MHz to 30 MHz)	1 mV to 30 mV	1.7 mV/V + 4.7 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 MHz to 30 MHz)	30 mV to 300 mV	1.8 mV/V + 3.4 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 MHz to 30 MHz)	0.3 V to 3 V	1.8 mV/V + 22 µV	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	0.01 Ω to 1 Ω	2.4 µ Ω/Ω + 3.3 µΩ	Fluke 5730A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 Ω to 10 Ω	3.9 µΩ/Ω + 1.8 µΩ	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	10 Ω to 100 Ω	1.8 µΩ/Ω + 23 µΩ	Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100 Ω to 1 kΩ	1.8 µΩ/Ω + 22 µΩ	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 kΩ to 10 kΩ	1.7 µΩ/Ω + 0.11 mΩ	Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	10 kΩ to 100 kΩ	1.7 µΩ/Ω + 0.14 µ Ω	Fluke 5730A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100 kΩ to 1 MΩ	4.4 µΩ/Ω + 0.27 Ω	Fluke 5730A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 MΩ to 10 MΩ	7.7 µΩ/Ω + 3.6 Ω	Fluke 5730A Fluke 5522A	Manufacturer's manual	F1, F2	F, O

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Calle Plátano # 6238, Colonia El Granjero
Cd. Juárez, Chihuahua, México. C.P. 32690
Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure Resistance	10 MΩ to 100 MΩ	33 μΩ/Ω + 0.25 kΩ	Fluke 5730A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	0.1 GΩ to 1 GΩ	741 μΩ/Ω + 61 kΩ	Fluke 5730A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	100 μΩ	1 700 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	1 mΩ	1.3 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	10 mΩ	0.7 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure Resistance (Fixed Points)	100 mΩ	0.4 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	1 Ω	0.31 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	10 kΩ	0.33 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure Resistance (Fixed Points)	1 MΩ	6.7 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	10 MΩ	6.3 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	100 MΩ	7.1 μΩ/Ω	Burster 100 μΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure Resistance (Fixed Points)	1.00 GΩ	12 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	10 GΩ	120 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance (Fixed Points)	100 GΩ	120 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure Resistance (Fixed Points)	1 TΩ	12 µΩ/Ω	Burster 100 µΩ L&N P310 L&N P321 L&N P331, Low Thermal, Ohm-Labs Standard Resistors, Keithley 5155 Meg ohm Resistance Standard	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.2 mA to 200 mA	65 µA/A + 4.3 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	200 mA to 329 mA	85 µA/A + 4.1 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.33 A to 2.99 A	77 µA/A + 1.5 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	2.99 A to 11 A	87 µA/A + 0.09 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	11 A to 20 A	33 µA/A + 1.9 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	0.2 mA to 20 mA	31 µA/A + 1.1 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	20 mA to 200 mA	33 mA/A + 38 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	0.2 A to 2.00 A	69 µA/A + 7.3 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	2 A to 2.99 A	101 µA/A + 72 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	2.99 A to 11 A	87 µA/A + 0.09 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 40 Hz to 1 kHz)	11 A to 20 A	44 µA/A + 1.7 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz)	20 µA to 200 µA	20 µA/A + 3.7 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz)	0.2 mA to 200 mA	33 mA/A + 6.5 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz)	0.2 A to 2 A	52 µA/A + 3.9 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 1 kHz)	2 A to 2.99 A	131 µA/A + 0.16 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz)	2.99 A to 11 A	84 µA /A + 98 µA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz)	11 A to 20 A	89 µA + 1.12 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz)	0.2 mA to 200 mA	80 µA /A + 11 nA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz)	0.2 A to 2.99 A	0.15 mA/A + 0.03 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz)	2.99 A to 11 A	0.06 mA/A + 0.48 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz)	11 A to 20 A	0.54 mA/A + 0.11 mA	Fluke 5730A Fluke 5725A Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz)	20 µA to 200 µA	0.42 mA /A + 4.6 nA	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Current (@ 10 kHz)	0.2 mA to 200 mA	0.3 mA/A - 29 nA	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz)	0.2 A to 2.99 A	0.21mA/A + 0.02 mA	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz)	2.99 A to 11 A	0.18 mA/A + 0.1 mA	Fluke 5730A Fluke 5725A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.1 µA to 10 µA	0.002 3 nA/µA + 0.012 nA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	10 µA to 200 µA	9.6 µA/A + 0.28 nA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.2 mA to 2 mA	7.1 µA/A + 0.8 nA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	2 mA to 20 mA	8.1 µA/A + 0.76 nA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure DC Current	20 mA to 200 mA	9.1 µA/A + 19 nA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.2 A to 2 A	18 µA/A + 1.9 µA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	2 A to 2.99 A	76 µA/A + 0.12 mA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	2.99 A to 11 A	66 µA/A + 86 µA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Current	11 A to 20 A	92 µA/A + 56 µA	Fluke 8588A Fluke 5730A Ohm Labs Resistors. Fluke 5522A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 10 Hz)	2 mV to 22 mV	63 µV/V + 0.5 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC/DC Voltage (@ 10 Hz)	22 mV to 220 mV	20 µV/V + 1.1 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 10 Hz)	0.22 V to 2.2 V	25 µV/V + 0.13 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 10 Hz)	2.20 V to 22 V	15 µV/V + 0.07 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 10 Hz)	22 V to 220 V	37 µV/V + 0.25 mV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 20 Hz)	2 mV to 22 mV	49 µV/V + 0.5 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 20 Hz)	22 m V to 220 mV	16 µV/V + 0.9 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 20 Hz)	0.22 V to 2.2 V	15 µV/V + 1.3 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 20 Hz)	2.2 V to 22 V	15 µV/V + 0.11 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC/DC Voltage (@ 20 Hz)	22 V to 220 V	15 µV/V - 3.4 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 50 kHz)	2 mV to 220 mV	17 µV/V + 0.7 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 50 kHz)	0.22 V to 220 V	15 µV/V + 1.2 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 40 Hz to 50 kHz)	220 V to 1 000 V	12 µV/V + 0.7 mV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	2 mV to 22 mV	114 µV/V + 0.6 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	22 mV to 220 mV	111 µV/V + 5.8 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	0.22 V to 2.2 V	7 µV/V + 6.7 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	2.2 V to 22 V	10 µV/V + 0.2 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	22 V to 220 V	32 µV/V + 0.44 mV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 100 kHz)	220 V to 600 V	45 µV/V + 3 mV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 300 kHz)	2 mV to 22 mV	190 µV/V + 0.6 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 300 kHz)	22 mV to 220 mV	189 µV/V + 6.2 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 300 kHz)	0.22 V to 2.2 V	14 µV/V + 12 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 300 kHz)	2.2 V to 22 V	20 µV/V + 0.1 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 300 kHz)	22 V to 70 V	26 µV/V + 0.1 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 500 kHz)	2 mV to 22 mV	268 µV/V + 0.7 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure AC/DC Voltage (@ 500 kHz)	22 mV to 220 mV	96 µV/V + 3.8 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 500 kHz)	0.22 V to 2.2 V	16 µV/V + 19 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 500 kHz)	2.2 V to 22 V	19 µV/V + 11 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 800 kHz)	2 mV to 22 mV	334 µV/V + 0.7 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 800 kHz)	22 mV to 220 mV	145 µV/V + 3.6 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 800 kHz)	0.22 V to 2.2 V	16 µV/V + 29 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 800 kHz)	2.2 V to 22 V	30 µV/V + 0.1 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 1 MHz)	2 mV to 22 mV	323 µV/V + 0.8 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure AC/DC Voltage (@ 1 MHz)	22 mV to 220 mV	163 µV/V + 4 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 1 MHz)	0.22 V to 2.2 V	24 µV/V + 31 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC Voltage (@ 1 MHz)	2.2 V to 22 V	40 µV/V + 0.04 µV	Fluke 792A, Fluke 5730A, Fluke 8588A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure DC Capacitance	0.2 mF to 110 mF	0.012 % of reading	5730A op03 w/ 8588A	Manufacturer's manual Charge Method	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	0 dB to -10 dB	0.002 % of reading + 0.055 dB	HP 8902A HP 11722A	MFG Performance	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-10 dB to -20 dB	0.006 % of reading + 0.056 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-20 dB to -30 dB	0.009 % of reading + 0.058 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-30 dB to -40 dB	0.012 % of reading + 0.061 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-40 dB to -50 dB	0.014 % of reading + 0.064 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-50 dB to -60 dB	0.015 % of reading + 0.068 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-60 dB to -70 dB	0.017 % of reading + 0.073 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-70 dB to -80 dB	0.013 % of reading + 0.112 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-80 dB to -90 dB	0.014 % of reading + 0.116 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-90 dB to -100 dB	0.015 % of reading + 0.12 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-100 dB to -110 dB	0.016 % of reading + 0.124 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-110 dB to -120 dB	0.017 % of reading + 0.13 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output RF Attenuation (@ 100 kHz to 2.6 GHz)	-120 dB to -130 dB	0.017 % of reading + 0.13 dB	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure RF Level (@ 0.001 Hz to 20 MHz)	20 dBm to -56 dBm	0.011 % of reading + 0.47 dBm	Keysight 33511B HP 8648C	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure RF Level (@ 100 kHz to 1.3 GHz)	10 dBm to -130 dBm	0.011 % of reading + 0.051 dBm	Keysight 33511B HP 8648C	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure RF Level (@ 1.3 GHz to 3.2 GHz)	10 dBm to -55 dBm	0.7 % of reading + 0.058 dBm	Keysight 33511B HP 8648C	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Power (@ 50 Ω) (@ 10 MHz to 18 GHz)	20 dBm to -30 dBm	0.051 % of reading + 0.049 dBm	Agilent E4419B Agilent 8481A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Power (@ 50 Ω) (@ 9 kHz to 6 GHz)	20 dBm to -60 dBm	0.013 % of reading + 0.041 dBm	Agilent E4419B Agilent E9304A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output RF Power (@ 50 Ω) (@ 50 MHz to 26.5 GHz)	20 dBm to -70 dBm	0.015 % of reading + 0.041 dBm	Agilent E4419B Agilent E4413A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output RF Power (@ 50 Ω) (@ 100 kHz to 4.2 GHz)	20 dBm to -30 dBm	0.027 % of reading + 0.045 dBm	Agilent E4419B Agilent 8482A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment Measure Phase Modulated Rate (@ 200 Hz to 10 kHz)	0.25 rads to 250 rads	0.78 % of reading + 0.049 rads	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment Measure Amplitude Modulation (Rate: 20 Hz to 10 kHz)	150 kHz to 10 MHz	0.49 % of reading + 0.25 % Depth	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
	Equipment Measure Amplitude Modulation (Depth: 5 % to 99 %)	150 kHz to 10 MHz	0.49 % of reading + 0.25 % Depth	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment Measure Amplitude Modulation (Rate: 20 Hz to 10 kHz)	10 MHz to 1.3 GHz	0.37 % of reading + 0.46 % Depth	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
	Equipment Measure Amplitude Modulation (Depth: 5 % to 99 %)	10 MHz to 1.3 GHz	0.37 % of reading + 0.46 % Depth	HP 8902A HP 11722A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	3 µW	0.86 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	10 µW	0.26 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	30 µW	0.093 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O

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Electrical	Power Meters	100 µW	0.03 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	300 µW	0.04 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	1 mW	0.17 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	3 mW	0.06 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	10 mW	0.017 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	30 mW	0.006 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Power Meters	100 mW	0.002 % of reading	HP 11638A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Capacitance (@ 50 Hz to 1 MHz)	1 pF to 1 000 pF	0.0014pF + 0.03 % of reading	Agilent E4980A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Capacitance (@ 50 Hz to 1 MHz)	1 nF to 100 nF	0.19 pF + 0.02 % of reading	Agilent E4980A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Capacitance (@ 50 Hz to 1 MHz)	0.1 µF to 10µF	0.000 1 µF + 0.02 % of reading	Agilent E4980A	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Output Capacitance (@ 50 Hz to 1 MHz)	10 µF to 100 µF	0.004 6 µF + 0.062 % of reading	Agilent E4980A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Capacitance (@ 50 Hz to 1 MHz)	100 µF to 200 µF	0.058 % of reading	Agilent E4980A	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Phase Angle (0.06 to 75) Vrms (0.01° to 360°)	10 Hz to 1 kHz	0.019°	Krohn Hite 6620	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Phase Angle (@ 0.06 Vrms to 75 Vrms) (@ 0.01° to 360°)	1 kHz to 10 kHz	0.034°	Krohn Hite 6620	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Phase Angle (@ 0.06 Vrms to 75 Vrms) (@ 0.01° to 360°	10 kHz to 40 kHz	0.084°	Krohn Hite 6620	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Output Phase Angle (@ 0.06 Vrms to 75 Vrms) (@ 0.01° to 360°)	40 kHz to 100 kHz	0.088°	Krohn Hite 6620	Manufacturer's manual	F1, F2	F, O

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Electrical	Equipment to Measure Harmonic Intercept point (@ CF = Up to 40 GHz)	-80 dB to 5 dB	0.7 dB	R&S FSP40	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	10 µA	250 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	20 µA	100 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	30 µA	150 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	100 µA	50 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	200 µA	50 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	300 µA	50 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	1 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	2 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	3 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	10 mA	35 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	20 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 10 Hz)	30 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	50 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	100 mA	31 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	200 mA	35 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	300 mA	35 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	500 mA	40 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	1A	40 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	2A	50 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	3A	60 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	5A	70 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	10A	80 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 Hz)	20 A	120 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	10 µA	250 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	20 µA	80 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	30 µA	135 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	100 µA	55 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	200 µA	35 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	300 µA	60 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	1 mA	20 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	2 mA	20 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	3 mA	20 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	10 mA	32 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	20 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	30 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	50 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	100 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	200 mA	30 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	300 mA	31 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	500 mA	32 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	1A	35 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	2A	45 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	3A	50 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	5A	60 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	10A	70 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 Hz & 30 Hz)	20 A	100 µA/A	Fluke 792A & 5790B/A	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	10 µA	250 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Contact Name: Deisy Carolina Gallegos Phone: 656-233-0828

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	20 µA	70 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	30 µA	85 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	100 µA	50 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	200 µA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	300 µA	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	1 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	2 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	3 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	10 mA	28 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	20 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	30 mA	27 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	50 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	100 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	200 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	300 mA	29 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	500 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	1A	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	2A	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	3A	36 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	5A	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	10A	45 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 40 Hz to 1 kHz)	20 A	65 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	20 µA	110 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	30 µA	85 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 3 kHz)	100 µA	55 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	200 µA	50 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	300 µA	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	1 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	2 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 3 kHz)	3 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	20 µA	120 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	30 µA	90 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	100 µA	65 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	200 µA	60 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	300 µA	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	1 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 5 kHz)	2 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	3 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	10 mA	23 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	20 mA	23 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	30 mA	27 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	50 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	100 mA	23 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	200 mA	23 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	300 mA	28 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	500 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	1 A	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	2 A	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 5 kHz)	3 A	35 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	5 A	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	10 A	45 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 5 kHz)	20 A	65 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	20 µA	150 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	30 µA	100 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	100 µA	75 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	200 µA	70 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	300 µA	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	1 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	2 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	3 mA	20 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 10 kHz)	10 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	20 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	30 mA	29 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	50 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	100 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	200 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	300 mA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	500 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	1A	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	2A	32 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	3A	37 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	5A	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 10 kHz)	10A	45 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 10 kHz)	20 A	65 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	30 µA	120 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	100 µA	95 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	200 µA	95 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	300 µA	50 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	1 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	2 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	3 mA	25 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	10 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	20 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	30 mA	29 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 20 kHz)	50 mA	26 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	100 mA	27 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	200 mA	27 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	300 mA	31 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	500 mA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	1A	45 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	2A	56 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	3A	60 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	5A	67 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	10A	75 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 20 kHz)	20 A	100 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	30 µA	190 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 30 kHz)	100 µA	120 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	200 µA	120 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	300 µA	70 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	1 mA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	2 mA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 30 kHz)	3 mA	30 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	10 mA	40 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	20 mA	41 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	30 mA	41 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	50 mA	42 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	100 mA	50 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	200 mA	50 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	AC Shunt / Resistor (@ 50 kHz)	300 mA	51 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	500 mA	51 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	1A	100 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	2A	100 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	3A	110 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	5A	160 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	10A	120 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 50 kHz)	20A	140 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	10 mA	60 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	20 mA	61 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	30 mA	63 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	50 mA	64 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O

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Electrical	AC Shunt / Resistor (@ 100 kHz)	100 mA	75 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	200 mA	80 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	300 mA	80 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	500 mA	80 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	1A	190 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	2A	190 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	3A	190 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	AC Shunt / Resistor (@ 100 kHz)	5A	300 µA/A	Fluke 792A & 5790B/AF	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC High Voltage (@ 50 Hz to 60 Hz)	Up to 5 kV	0.058 % of reading	Guardian 6000	Manufacturer's manual	F1, F2	F, O
Electrical	Equipment to Measure AC/DC High Voltage	Up to 6 kV	0.02% of reading	Guardian 6000	Manufacturer's manual	F1, F2	F, O

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Electrical	AC/DC Current Shunt Resistance (@ up to 1000A)	100 µΩ to 200 µΩ	0.0015 Ω/ Ω + 1.33 x 10^{-7} Ω	Fluke 5522A calibrator, DC Power Supply, 1000A Primary Current Injection Tester and Fluke 8588A Digital Multimeter	Manufacturer's manual	F1, F2	F, O
Electrical	AC/DC Current Shunt Resistance (@ up to 1000A)	200 µΩ to 500 mΩ	0.05 mΩ/ Ω + 2.8 x 10^{-7} Ω	Fluke 5522A calibrator, DC Power Supply, 1000A Primary Current Injection Tester and Fluke 8588A Digital Multimeter	Manufacturer's manual	F1, F2	F, O
Electrical	AC/DC Current Shunt Resistance (@ up to 1000A)	500 mΩ to 1 Ω	0.015 mΩ/ Ω + 7.49 x 10^{-9} Ω	Fluke 5522A calibrator, DC Power Supply, 1000A Primary Current Injection Tester and Fluke 8588A Digital Multimeter	Manufacturer's manual	F1, F2	F, O
Electrical	Defibrillator/Analyzer Lown, Edmark, Trapezoidal, DC Bi-phasic, AC Pulsed Bi-phasic Waveforms ECG Signals (0.05 mV to 5 mV)	0.1 J to 600 J	1 % of reading	Fluke Impulse 7000DP Defibrillator Analyzer, Fluke Prosim 8, Fluke 8588A diferential probe, Oscilloscope AM 3000 Amplifier.	Manufacturer's manual	F1, F2	F, O

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Electrical	Defibrillator/Analyzer Lown, Edmark, Trapezoidal, DC Bi-phasic, AC Pulsed Bi-phasic Waveforms ECG Signals (0.05 mV to 5mV)	1 bpm to 360 bpm	0.5 % of reading	Fluke Impulse 7000DP Defibrillator Analyzer, Fluke Prosim 8 Fluke 8588A diferential probe, Oscilloscope AM 3000 Amplifier.	Manufacturer's manual	F1, F2	F, O
Electrical	Flux Meters	1 x 10^{-6} V·s to 2 V·s	0.08 % of reading	MI MFS-1 Volt x Second Generator	Manufacturer's manual	F1, F2	F, O

1. The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty 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 measurement uncertainty included on this scope 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 laboratory's range of calibration capability for all disciplines for which it is 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 CAB's fixed facility
O	Conformity assessment activity is performed onsite at the CAB's customer location

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

M Conformity assessment activity is performed from a mobile facility

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratory's 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 laboratory's fixed location.

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

6. The term P represents pressure in units appropriate to the uncertainty statement.

7. The term T represents temperature in ºC or ºF as appropriate to the uncertainty statement.

8. The term T represents torque in N•m (including SI multiple and submultiple units) for the International System of Units (the SI) or ozf•in, lbf•in and lbf•ft for the USC system of units.

Note that temperature and torque both use the same designation "T". This is not a problem unless a laboratory is accredited for both; however, the usage is common and should be retained when possible and modified in the few cases where a laboratory is accredited for both. In those cases, continue to use T for temperature and use Tr for torque. This note is intended for internal office use only and is to be removed during preparation of draft documents.

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

10. The term F represents force in pound-force (lbf) as appropriate to the uncertainty statement.

11. Flex Codes

F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.
F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.
F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
F3: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.