



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

# Certificate of Accreditation

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

#### ETALONET, S.A. de C.V.

Rio Panuco # 3508, Col. Villa Los Pinos Monterrey, Nuevo León, México. C.P. 64770

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

Dimensional, Chemical, Mass, Force and Weighing Devices, Mechanical, Thermodynamic, Time & Frequency and Electrical Calibration (As detailed in the supplement)

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

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

August 14, 2012

October 07, 2024

October 31, 2026

Revision Date:

Accreditation No.:

Certificate No.:

July 22, 2025

73706

L24-767-R1

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 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: <a href="www.pjlabs.com">www.pjlabs.com</a>





## ETALONET, S.A. de C.V.

Rio Panuco # 3508, Col. Villa Los Pinos Monterrey, Nuevo León, México. C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Micrometers	0.05 in to 24 in	(52 + 16L) μin	Grade 1 Gage Blocks	JIS B 7502	F1, F2	F, O
Dimensional	Micrometers	2.5 mm to 25 mm	(0.88 + 1L) μm	Grade 0 Gage Blocks	JIS B 7502	F1, F2	F, O
Dimensional	Calipers	0.05 in to 24 in	(392 + 16L) μin	Grade 1 Gage Blocks	NMX-CH-002- IMNC	F1, F2	F, O
Dimensional	Indicators	0.005 in to 2 in	(384 + 16L) μin	Micrometer head Cal	JIS B 7503	F1, F2	F, O
Dimensional	Height Gages	0.05 in to 24 in	(392 + 16L) μin	Grade 1 Gage Blocks	JIS B 7517	F1, F2	F, O
Dimensional	Rules and Tapes	2 mm to 3 000 mm	$(570 + 0.24L) \mu m$	Magnifier and Linear Scales 10 X	JIS B 7516	F1, F2	F, O
Dimensional	Thread Plug Gage (Pitch Diameter)	0-80 to 1-12	210 μin	Three Wire Method and Digital Micrometer	ANSI/ASME B1.2	F1, F2	F, O
Dimensional	Plug Gage	0.000 5 in to 1 in	41 µin	Digital Micrometer	ASME 89.1.5	F1, F2	F, O
Dimensional	Plug Gage	1 in to 2 in	41 µin	Digital Micrometer	ASME 89.1.5	F1, F2	F, O
Dimensional	Plug Gage	2 in to 3 in	41 μin	Digital Micrometer	ASME 89.1.5	F1, F2	F, O
Dimensional	Plug Gage	3 in to 4 in	41 μin	Digital Micrometer	ASME 89.1.5	F1, F2	F, O
Dimensional	Ring Gage	0.05 to 4 in	64 μin	Bore Gauge	ASME 89.1.5	F1, F2	F, O
Dimensional	Angle Measuring Devices- Goniometers, Bevel & Digital Protractors	30°	0.06°	Angle Block, Granite Plate	ASME 89.1.5	F1, F2	F, O





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Dimensional	Angle Measuring Devices- Goniometers, Bevel & Digital Protractors	45°	0.06 °	Angle Block, Granite Plate	ASME 89.1.5	F1, F2	F, O
Dimensional	Angle Measuring Devices- Goniometers, Bevel & Digital Protractors	60°	0.06°	Angle Block, Granite Plate	ASME 89.1.5	F1, F2	F, O
Dimensional	Angle Measuring Devices- Goniometers, Bevel & Digital Protractors	90°	0.06°	Angle Block, Granite Plate	ASME 89.1.5	F1, F2	F, O
Chemical	pH Meter (Fixed Point)	4 pH	0.02 pH	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	pH Meter (Fixed Point)	7 pH	0.02 pH	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	pH Meter (Fixed Point)	10 pH	0.02 pH	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	Conductivity Meter (Fixed Point)	0.1 mS	1.6 μS	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	Conductivity Meter (Fixed Point)	1.44 mS	14 μS	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	Conductivity Meter (Fixed Point)	12.88 mS	130 μS	Standard Solutions	NMX-AA-093- SCFI	F1, F2	F, O
Chemical	Patient Monitors Oximetry (Oxygen Saturation) (SpO2)	85 % SpO2 to 100 % SpO2	1.4 % SpO2	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-2	IEC 62353	F1, F2	F, O





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Chemical	Oximeters Oximetry (Oxygen Saturation) (SpO2)	85 % SpO2 to 100 % SpO2	1.4 % SpO2	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-3	IEC 62353	F1, F2	F, O
Mass, Force and Weighing Devices	Analytical Balances	1 mg to 100 g	0.58 mg	Class 1 and Class F Mass	NOM-010- SCFI	F1, F2	F, O
Mass, Force and Weighing Devices	Analytical Balances	100 g to 20 kg	1.2 g	Class 1 and Class F Mass	NOM-010- SCFI	F1, F2	F, O
Mass, Force and Weighing Devices	Analytical Balances	20 kg to 1 000 kg	0.12 kg	Class 1 and Class F Mass	NOM-010- SCFI	F1, F2	F, O
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	1 g	0.087 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	2 g	0.11 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	5 g	0.12 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	10 g	0.11 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	20 g	0.13 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	50 g	0.15 mg	Class F1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	100 g	0.2 mg	Class 1 Mass	OIML R111	F1, F2	F





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Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	200 g	0.35 mg	Class 1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	500 g	0.86 mg	Class 1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	1 kg	5.3 mg	Class 1 Mass	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	5 kg	83 mg	Mass Class F2	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	10 kg	99 mg	Mass Class 1	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	20 kg	0.33 g	Mass Class F2	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Mass (Class M1, M2, M3)	25 kg	0.42 g	Mass Class F2	OIML R111	F1, F2	F
Mass, Force and Weighing Devices	Force Gauge (Tension)	5 kgf to 250 kgf	0.7 kgf	Hanging Method Class M2	ISO 7500	F1, F2	F, O
Mass, Force and Weighing Devices	Force Gauge (Tension)	4.59 lbf to 100 lbf	5.8 % of reading	Load Cell Strain Sense SST101UF	ASTM-E4-10	F1, F2	F, O
Mass, Force and Weighing Devices	Force Gauge (Tension)	100 lbf to 1 000 lbf	0.48 % of reading	Load Cell Strain SenseSST102UF	ASTM-E4-10	F1, F2	F, O
Mass, Force and Weighing Devices	Force Gauge (Tension)	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain SenseSST103UF	ASTM-E4-10	F1, F2	F, O
Mass, Force and Weighing Devices	Force Gauge (Compression)	9.41 lbf to 100 lbf	5.8 % of reading	Load Cell Strain SenseSST101UF	ASTM-E4-10	F1, F2	F, O





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Mass, Force and Weighing Devices	Force Gauge (Compression)	100 lbf to 1 000 lbf	0.55 % of reading	Load Cell Strain SenseSST102UF	ASTM-E4-10	F1, F2	F, O
Mass, Force and Weighing Devices	Force Gauge (Compression)	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain SenseSST103UF	ASTM-E4-10	F1, F2	F, O
Mechanical	Gas Flow Meter	4 L/min to 205 L/min	5.4 % of reading	Gas Flow Meter	CENAM Technical Guide	F1, F2	F, O
Mechanical	Patient Monitors Non-Invasive Blood Pressure	30 mmHg to 255 mmHg	0.8 mmHg	Prosim 8, ProsimSPOT Light SpO2 Fluke PPC-1-BIO-2	NOM-009- SCFI	F1, F2	F, O
Mechanical	Baumanometers	30 mmHg to 300 mmHg	0.8 mmHg	Prosim 8 Fluke PPC-1- BIO-4	NOM-009- SCFI	F1, F2	F, O
Mechanical	Torque Tools	15 lbf•in to 220 lbf•in	0.45 % of reading	Load Cell	ANSI / ASME B107.14M	F1, F2	F, O
Mechanical	Torque Tools	1 lbf•in to 10 lbf•in	0.38 % of reading	Torque analyzer	ANSI / ASME B107.14M	F1, F2	F, O
Mechanical	Torque Tools	10 lbf•ft to 100 lbf•ft	1 % of reading	Torque analyzer	ANSI / ASME B107.14M	F1, F2	F, O





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Mechanical	Torque Tools	25 lbf•in to 250 lbf•in	1 % of reading	Torsional Par Cell Mountz BMX-250i	ANSI / ASME B107.14M	F1, F2	F, O
Mechanical	Torque Tools	100 lbf•ft to 1 000 lbf•ft	1 % of reading	Torque analyzer Mountz	ANSI / ASME B107.14M	F1, F2	F, O
Mechanical	Pressure Gauge	3 psi to 15 psi	0.025 % of reading	Pressure Calibrator Druck	NOM-013- SCFI	F1, F2	F, O
Mechanical	Pressure Gauge	0 psi to 300 psi	0.02 % of reading	Pressure Gage Additel	NOM-013- SCFI	F1, F2	F, O
Mechanical	Pressure Gauge	300 psi to 10 000 psi	0.2 % of reading	Pressure Gage Crystal	NOM-013- SCFI	F1, F2	F, O
Mechanical	Vacuum Gauge	-10 psi to 0 psi	0.025 % of reading	Pressure Calibrator Druck	NOM-013- SCFI	F1, F2	F, O
Fluid Quantities	Single-Delivery Mechanical PistonDispensers	1 mL to 200 mL	0.2 % of reading	Analytical Balance	NMX-CH-049- IMNC	F1, F2	F, O





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Fluid Quantities	Diffusers	1 mL to 100 mL	0.2 % of reading	Analytical Balance	NMX-CH-049- IMNC	F1, F2	F, O
Fluid Quantities	Pipettes	1 mL to 10 mL	0.015 % of reading	Analytical Balance	NMX-CH-049- IMNC	F1, F2	F, O
Fluid Quantities	Pipettes	10 mL to 100 mL	0.2 % of reading	Analytical Balance	NMX-CH-049- IMNC	F1, F2	F, O
Fluid Quantities	Micropipette	10 μL to 1 000 μL	0.004 1 % of reading	Analytical Balance	NMX-CH-049- IMNC	F1, F2	F, O
Fluid Quantities	Volumetric Flasks	1 mL to 5 L	0.1% of reading	Analytical Balance SARTORIUS LA230S Mettler Toledo, XP 5003SDR	NMX-CH- 049- IMNC	F1, F2	F, O
Fluid Quantities	Burettes	1 mL to 100 mL	0.07 % of reading	Analytical Balance SARTORIUS LA230S Mettler Toledo, XP 5003SDR	NMX-CH- 049- IMNC	F1, F2	F, O
Fluid Quantities	Burettes	100 mL to 1 L	0.01 % of reading	Analytical Balance SARTORIUS LA230S Mettler Toledo, XP 5003SDR	NMX-CH- 049- IMNC	F1, F2	F, O





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Fluid Quantities	Test Tubes	25 mL to 500 mL	0.1 % of reading	Analytical Balance SARTORIUS LA230S Mettler Toledo, XP 5003SDR	NMX-CH- 049- IMNC	F1, F2	F, O
Fluid Quantities	Volumetric Graduated Neck Flask	1 L to 20 L	0.015 % of reading	Balance SARTORIUS 3808 MP8-1 Analytical Balance Mettler Toledo, XP 5003SDR	NMX-CH- 049- IMNC	F1, F2	F, O
Fluid Quantities	Pycnometers Gay-Lussac	10 mL to 100 mL	0.005 % of reading	Analytical Balance Mettler Toledo, XP 5003S	NMX-CH- 049- IMNC	F1, F2	F, O
Thermodynamic	Direct Reading Thermometer	40 °C to 200 °C	0.31 °C	Micro Bath 6102	NMX-CH-70- SCFI	F1, F2	F, O
Thermodynamic	Direct Reading Thermometer	-15 °C to 350 °C	0.68 °C	Hart Calibrator 9009	NMX-CH-70- SCFI	F1, F2	F, O
Thermodynamic	Infrared Temperature Measuring Instrument	50 °C to 450 °C	0.81°C	Hart Calibrator 9132 CCT-W65 Radiation Thermometry	NMX-CH-70- SCFI	F1, F2	F, O





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Thermodynamic	Hygrometer	5 % RH to 95 % RH	1.6 % RH	Rotronic	CENAM Technical Guide	F1, F2	F
Thermodynamic	Temperature Chamber	-50 °C to 500 °C	0.65 °C	Data Logger Manufacturer Etalons	AMS2750	F1, F2	О
Thermodynamic	Relative Humidity Chamber	35 % RH to 95 % RH	1.2 % RH	Rotronic Hydropalm HP-22A	AMS2750	F1, F2	О
Time and Frequency	Equipment to Output Frequency	0.01 Hz to 2 MHz	0.7 % of reading	Oscilloscope	ANSI-C39.6	F1, F2	F, O
Time and Frequency	Timers	3 600 S	0.6 s	Stopwatch PPC-1-TIE-01	NIST Handbook 105-5	F1, F2	F, O
Time and Frequency	Patient Monitor ECG: Heart Rate (Beats per minute)	ECG: 30 bpm to 250 bpm	ECG: 0.7 bpm	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-2	IEC 62353	F1, F2	F, O
Time and Frequency	Oximeters Pulse: Heart Rate	30 bpm to 250 bpm	0.7 bpm	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-3	IEC 62353	F1, F2	F, O
Time and Frequency	Electrocardiograph	30 bpm to 250 bpm	0.7 bpm	Prosim 8 Fluke PPC-1-BIO-1	IEC 62353	F1, F2	F, O





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Electrical	Equipment to Output DC Voltage	9 μV to 330 mV	$81 \mu V/V + 3 \mu V$	Fluke 5500A	Euramet-cg-5	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	330 mV to 3 V	$62 \mu V/V + 5 \mu V$	Fluke 5500A	Euramet-cg-5	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	3 V to 30 V	$62 \mu V/V + 50 \mu V$	Fluke 5500A	Euramet-cg-5	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	30 V to 300 V	$67 \mu V/V + 1.5 \mu V$	Fluke 5500A	Euramet-cg-5	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	300 V to 1 000 V	$67 \mu\text{V/V} + 1.5 \text{mV}$	Fluke 5500A	Euramet-cg-5	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	30 mV to 1 000 V	0.1 % of Output + 10 mV	Fluke 45 PPC-1-ELE-08	EN 60060-2	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 kV to 30 kV	0.6 % of Output + 30 V	ESH Electrostatic Voltmeter PROY	NMX-CH- 515-1-IMNC	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.33 A to 11 A	0.097 % of Output + 160 μA	Fluke 5500 A and 50 Turn Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Clamp-On Meters	3.3 mA to 550 A	0.35 % of Output + 0.018A	Fluke 5500 A and 50 Turn Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Measure DC Power	0.1 mW to 11.22 kW	0.14 % of Output + 0.45 μW	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	$0.25~\Omega$ to $10.99~\Omega$	0.013 % of Output + 0.008 Ω	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 329.999 Ω	$0.01\%$ of Output + $0.015\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O





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Electrical	Equipment to Measure Resistance	330 Ω to 3.299 99 kΩ	$0.01$ % of Output + $0.06 \Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	$3.3 \text{ k}\Omega$ to $32.999 9 \text{ k}\Omega$	$0.01~\%$ of Output $+~0.6~\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 kΩ to 329.999 kΩ	$0.013$ % of Output + 6 $\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 kΩ to 3.299 99 MΩ	$0.017\%$ of Output + 55 $\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	3.3 MΩ to 32.999 9 MΩ	0.11 % of Output + 550 Ω	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 MΩ to 109.999 MΩ	$0.57\%$ of Output + $5.5 \text{ k}\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	$0.57$ % of Output + 17 k $\Omega$	Fluke 5500 A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 Ω to 1.111 11 MΩ	$0.01\%$ of Output + $2 \text{ m}\Omega$	GenRad 1433B IET VRS-100- 101K-BP	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 kΩ to 1 TΩ	2 % of Output	GenRad 1433B IET VRS-100- 101K-BP	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	0.33 nF to 0.499 9 nF	0.62 % of Output + 16 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O





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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	0.5 nF to 1.099 9 nF	0.6 % of Output + 12 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	1.1 nF to 3.299 9 nF	0.58 % of Output + 12 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	3.3 nF to 10.999 nF	0.49 % of Output + 25 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	11 nF to 32.999 nF	0.29 % of Output + 120 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	33 nF to 109.99 nF	0.29 % of Output + 120 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	110 nF to 329.99 nF	0.33 % of Output + 300 pF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	0.33 nF to 1.099 9 μF	0.28 % of Output + 1.6 nF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	1.1 μF to 3.299 9 μF	0.42 % of Output + 3.5 nF	Fluke 5500A	Euramet-cg-15	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 Measure Capacitance (@ 1 kHz)	3.3 μF to 10.999 μF	0.42 % of Output + 12 nF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	11 μF to 32.999 μF	0.5 % of Output + 32 nF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	33 μF to 109.99 μF	0.63 % of Output + 0.13 μF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	110 μF to 329.99 μF	0.82 % of Output + 1.6 μF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	330 μF to 1.1 mF	1.3 % of Output + 0.16 μF	Fluke 5500A	Euramet-cg-15	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (@ 1 kHz)	1 pF to 1.1 μF	0.5 % of Output + 5 pF	GenRad 1412BC PPC-1-ELE-09	CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (Fixed Points)	0.001 μF	0.5 % of Output	GenRad 1409F PPC-1-ELE-09	CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Capacitance (Fixed Points)	1 μF	0.06 % of Output	GenRad 1409Y PPC-1-ELE-09	ANSI-C-39-6	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 Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 329.999 mV	960 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 329.999 mV	260 μV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 329.999 mV	350 μV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 329.999 mV	680 μV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 329.999 mV	1 100 μV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 329.999 mV	2 700 μV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.299 99 V	10 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.299 99 V	19 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O





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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.299 99 V	3 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.299 99 V	10 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.299 99 V	10 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.299 99 V	23 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 32.999 9 V	60 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 32.999 9 V	20 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 32.999 9 V	30 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.299 99 V	10 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O





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Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.299 99 V	10 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.299 99 V	23 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 32.999 9 V	80 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 32.999 9 V	190 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 329.999 V	580 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 329.999 V	300 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 329.999 V	2 300 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	330 V to 1 000 V	2 200 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O





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Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	330 V to 1 000 V	2 600 mV	Fluke 5500A	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 20 kHz)	675 mV to 750 V	0.07 % of reading + 225 mV	Fluke 45	Euramet-cg 15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.75 kV to 30 kV	0.7 % of reading + 30 V	Electrostatic Voltmeter PPC-1-ELE-03	EN 60060-2	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	0.029 mA to 0.329 9 mA	0.14 % of reading + 0.25 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	0.33 mA to 3.299 9 mA	0.12 % of reading + 0.3 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	3.3 mA to 32.999 mA	0.1 % of reading + 3 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 10 kHz)	33 mA to 329.99 mA	0.1 % of reading + 30 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 5 kHz)	0.33 A to 2.199 99 A	0.16 % of reading + 300 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O





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Electrical	Equipment to Output AC Current (@ 10 Hz to 3 kHz)	2.2 A to 11 A	0.1 % of reading + 2 μA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Clamp-On Meters (@ 46 Hz to 65 Hz)	10 A to 550 A	0.37 % of reading + 0.04 µA	Fluke 5500A and 50 Tum Coil	ANSI C39.1: 81	F1, F2	F, O
Electrical	Equipment to Output AC Power (@ Up to 1 000 V) (@ 60 Hz)	0.1 mW to 11.22 kW	0.18 % of Output + 0.16 mW	Fluke 5500 A PPC-1-ELE-10	ANSI-C39-1	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	-200 °C to -80 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	-80 °C to 0 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	0 °C to 100 °C	0.2 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	100 °C to 300 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	300 °C to 400 °C	0.31 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	400 °C to 630 °C	0.45 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 100 Ω	630 °C to 800 °C	0.32 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	-200 °C to -80 °C	0.34 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	-80 °C to 0 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	0 °C to 100 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	100 °C to 300 °C	0.15 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	300 °C to 400 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	400 °C to 630 °C	0.29 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	-200 °C to -80 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	-80 °C to 0 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	0 °C to 100 °C	0.15 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	100 °C to 300 °C	0.16 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	300 °C to 400 °C	0.17 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	400 °C to 630 °C	0.23 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	-200 °C to -80 °C	0.18 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	-80 °C to 0 °C	0.13 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	0 °C to 100 °C	0.18 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	100 °C to 260 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	260 °C to 300 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	300 °C to 400 °C	0.32 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	400 °C to 600 °C	0.26 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	-200 °C to -80 °C	0.29 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	-80 °C to 0 °C	0.21 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	0 °C to 100 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	100 °C to 260 °C	0.14 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	300 °C to 400 °C	0.15 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	400 °C to 600 °C	0.31 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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Rio Panuco # 3508, Col. Villa Los Pinos Monterrey, Nuevo León, México. C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	600 °C to 630 °C	0.22 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	-200 °C to -80 °C	0.02 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	-80 °C to 0 °C	0.13 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	0 °C to 100 °C	0.13 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	100 °C to 260 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	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	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	260 °C °C to 360 °C	0.14 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	300 °C to 400 °C	0.15 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	400 °C to 600 °C	0.15 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1000 Ω	600 °C to 630 °C	0.32 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO





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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	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-250 °C to -100 °C	0.58 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.17 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	FO
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.26 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.32 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to -30 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-30 °C to 150 °C	0.17 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	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	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.28 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used wit Thermocouple Type K	-200 °C to -100 °C	0.39 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to -25 °C	0.22 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-30 °C to 120 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 000 °C	0.31 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.47 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.66 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.41 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.39 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.47 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.55 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	250 °C to 400 °C	0.44 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	400 °C to 1 000 °C	0.44 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	1 000 °C to 1 767 °C	0.55 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.76 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O





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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 (±) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.29 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.2 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.18 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04	ANSI-C39.6	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.





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- 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:

ocation	Location
Code	
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
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. 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.