



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***Stadia Servicios de Calibracion / Soluciones Integrales en Pirometría y Calibracion de Mexicali, S de R.L. de C.V.***

***Río San Pedro Mezquital # 4175, Col. Mirasol  
Mexicali, Baja california, México. C.P. 21396***

*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, Thermodynamic, Acoustic, Mass, Force and Weighing Devices, Mechanical, Time and Frequency, Chemical 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:*

July 14, 2021

February 20, 2026

February 29, 2028

*Accreditation No.:*

*Certificate No.:*

93557

L26-146

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: [www.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## Stadia Servicios de Calibracion / Soluciones Integrales en Pirometría y Calibracion de Mexicali, S de R.L. de C.V.

Río San Pedro Mezquital # 4175, Col. Mirasol  
Mexicali, Baja california, México. C.P. 21396  
Contact Name: Rodolfo Ley Castro. Phone: 686-562-4788

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Caliper	0.1 in to 60 in	(578 + 2.4L) $\mu$ m	Block Grade 0	JIS B 7507	F1, F2	F
Dimensional	Dial Indicator	0.000 1 in to 4 in	(264 + 1.3L) $\mu$ m	Block Grade 0	JIS B 7533	F1, F2	F
Dimensional	Micrometer	0.1 in to 12 in	(50 + 2.3L) $\mu$ m	Block Grade 0	JIS B 7502	F1, F2	F
Dimensional	Height Gage	0.1 in to 48 in	(582 + 2.2L) $\mu$ m	Block Grade 0	JIS B 7517	F1, F2	F
Dimensional	Surface Plate (Flatness)	4 in to 120 in (Diagonal)	51 $\mu$ m	Planekator with Indicator	ASME B89.3.7	F1, F2	O
Dimensional	Surface Plate (Repeat Reading)	20 $\mu$ m to 500 $\mu$ m	36 $\mu$ m	Repeat Readings Gage with Indicator	ASME B89.3.7	F1, F2	O
Dimensional	Pin, Plug Gage	0.02 in to 2.36 in	39 $\mu$ m	Laser Micrometer	LSM-9506 ANSI B89.6.2	F1, F2	F
Thermodynamic	Oven, Furnace (Temperature Uniformity Test)	60 °C to 1 205 °C	(2 + 2 x 10 <sup>-3</sup> T) °C	Thermocouple Data Logger Multithread SX	AMS 2750	F1, F2	O
Thermodynamic	Oven, Furnace (System Accuracy Test)	10 °C to 1 205 °C	(2 + 2 x 10 <sup>-3</sup> T) °C	Thermocouple Calibrator Fluke 714B	AMS 2750	F1, F2	O
Thermodynamic	IR Thermometer	10 °C to 100 °C	0.57 °C	Infrared Calibrator BX-500	ASTM E2847	F1, F2	F
Thermodynamic	IR Thermometer	101 °C to 200 °C	0.94 °C	Infrared Calibrator BX-500	ASTM E2847	F1, F2	F
Thermodynamic	IR Thermometer	201 °C to 500 °C	1.8 °C	Infrared Calibrator BX-500	ASTM E2847	F1, F2	F
Thermodynamic	Hygrometer	10 % RH to 90 % RH	1.7 % RH	Humidity Chamber and Vaisala, M170/ HMP75B	ASTM E104	F1, F2	F



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Acoustic	Sound Level Meter (Fixed Point)	114 dB	0.6 dB	Sound Level Calibration	ANSI/ASA S1.4	F1, F2	O
Mass, Force and Weighing Devices	Bench Balance	0.5 g to 200 g	$(5.14 \times 10^{-3} + 6.94 \times 10^{-5}Wt)$ g	Class F Weights.	OIML R 76-1	F1, F2	O
Mass, Force and Weighing Devices	Bench Balance	0.2 kg to 10 kg	$(1.4 \times 10^{-2} + 3.16 \times 10^{-2}Wt)$ g	Class F Weights.	OIML R 76-1	F1, F2	O
Mass, Force and Weighing Devices	Bench Scale	10 kg to 100 kg	$(1.47 \times 10^{-2} + 3.27 \times 10^{-2}Wt)$ g	Class F Weights.	OIML R 76-1	F1, F2	O
Mechanical	Pressure Gage	-14.7 psi to 30 psi	0.18 psi	Fluke 700G07, Fluke 700RG29 Mensor Pressure Gage	DKD-R 6-0	F1, F2	F, O
Mechanical	Pressure Gage	31 psi to 500 psi	0.42 psi	Fluke 700G07, Fluke 700RG29 Mensor Pressure Gage	DKD-R 6-0	F1, F2	F, O
Mechanical	Pressure Gage	501 psi to 3 000 psi	2.4 psi	Fluke 700G07, Fluke 700RG29 Mensor Pressure Gage	DKD-R 6-0	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HRC	20 HRC to 34 HRC	0.51 HRC	Hardness Test Blocks	ASTM E18	F1, F2	F, O



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Mechanical	Indirect Verification of Rockwell Hardness Tester HRC	35 HRC to 59 HRC	0.5 HRC	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HRC	60 HRC to 70 HRC	0.51 HRC	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HRBW	20 HRBW to 59 HRBW	0.51 HRBW	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HRBW	60 HRBW to 87 HRBW	0.5 HRBW	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HRBW	88 HRBW to 100 HRBW	0.49 HRBW	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HREW	69 HREW to 83 HREW	0.42 HREW	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HREW	84 HREW to 92 HREW	0.47 HREW	Hardness Test Blocks	ASTM E18	F1, F2	F, O
Mechanical	Indirect Verification of Rockwell Hardness Tester HREW	93 HREW to 100 HREW	0.48 HREW	Hardness Test Blocks	ASTM E18	F1, F2	F, O



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Time and Frequency	Stopwatch, Timers	1 s to 86 400 s	0.45 s	Stopwatch	NIST 960-12	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	10.1 Hz	5.1 mHz	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 kHz	50 mHz	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	10 kHz	0.5 Hz	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	100 kHz	51 Hz	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 MHz	510 Hz	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Chemical	pH Meter	4.005 pH	0.03 pH	pH Buffer Solution	ASTM E-70	F1, F2	F, O
Chemical	pH Meter	7 pH	0.03 pH	pH Buffer Solution	ASTM E-70	F1, F2	F, O
Chemical	pH Meter	10.012 pH	0.03 pH	pH Buffer Solution	ASTM E-70	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	600 °C to 800 °C	1.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	1.3 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type B	1 000 °C to 1 820 °C	1.2 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	250 °C to -200 °C	1.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	-200 °C to -100 °C	0.59 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	-100 °C to 600 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type E	600 °C to 1 000 °C	0.65 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.42 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	-100 °C to 800 °C	0.37 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type J	800 °C to 1 200 °C	0.61 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.49 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	-100 °C to 400 °C	0.31 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	400 °C to 1 200 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type K	1 200 °C to 1 372 °C	0.49 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.48 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	-100 °C to 900 °C	0.22 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type N	900 °C to 1 300 °C	0.33 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	-20 °C to 0 °C	0.91 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	0 °C to 100 °C	0.79 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type S	100 °C to 1 767 °C	0.83 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	-250 °C to -200 °C	0.56 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	-200 °C to 0 °C	0.28 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple Type T	0 °C to 400 °C	0.2 °C	Temperature Calibrator Fluke 724 Electrical Simulation of Thermocouple Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926, 100 $\Omega$	-200 °C to 0 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3926, 100 $\Omega$	0 °C to 630 °C	0.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 $\Omega$	-200 °C to -190 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 $\Omega$	-190 °C to 0 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 3916, 100 $\Omega$	0 °C to 630 °C	0.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 200 $\Omega$	-200 °C to 0 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 200 $\Omega$	0 °C to 400 °C	0.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 200 $\Omega$	400 °C to 630 °C	0.96 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 500 $\Omega$	-200 to 0 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 500 $\Omega$	0 °C to 400 °C	0.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 500 $\Omega$	400 °C to 630 °C	0.96 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 1 k $\Omega$	-200 °C to 0 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 1 k $\Omega$	0 °C to 400 °C	0.6 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt 385, 1 k $\Omega$	400 °C to 630 °C	0.96 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O



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Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt Ni 672, 120 $\Omega$	-80 °C to 260 °C	0.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt Cu 427, 10 $\Omega$	-100 °C to 0 °C	2.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with RTD Pt Cu 427, 10 $\Omega$	0 °C to 260 °C	2.4 °C	Temperature Calibrator Fluke 724 Electrical Simulation of RTD Output	ASTM E1137	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 mV to 100 mV	2.7 mV	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	0.1 V to 10 V	3.8 mV	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	40 mV	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1 000 V	0.25 V	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O



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Río San Pedro Mezquital # 4175, Col. Mirasol  
Mexicali, Baja california, México. C.P. 21396  
Contact Name: Rodolfo Ley Castro. Phone: 686-562-4788

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	0.1 A to 3 A	112 mA	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 100 Hz)	3 A to 500 A	(0.4 + 0.02A) A	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Current (@ 10 Hz to 100 Hz)	3 A to 500 A	(0.4 + 0.02A) A	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.1 mA to 1 mA	43 $\mu$ A	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Current	1 mA to 100 mA	78 $\mu$ A	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.1 A to 3 A	98 mA	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 KHz)	0.1 V to 750 V	52 mV	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 $\Omega$ to 100 $\Omega$	42 m $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	100 $\Omega$ to 1 k $\Omega$	0.52 $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 k $\Omega$ to 10 k $\Omega$	6.3 $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O



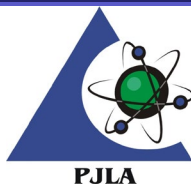
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Electrical	Equipment to Output Resistance	0.1 k $\Omega$ to 1 M $\Omega$	53 $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 M $\Omega$ to 10 M $\Omega$	12 k $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 M $\Omega$ to 100 M $\Omega$	60 k $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Output Resistance	100 M $\Omega$ to 1 G $\Omega$	77 k $\Omega$	Multimeter Agilent 34410A	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 mV to 1 V	6.3 $\mu$ V	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1 V to 10 V	59 $\mu$ V	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	10 V to 100 V	3.2 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	100 V to 1 000 V	37 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1 $\mu$ A to 200 $\mu$ A	0.17 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O



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Electrical	Equipment to Measure DC Current	0.2 mA to 2 mA	0.9 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Current	2 mA to 20 mA	4.7 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.2 A to 2 A	0.35 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Current	2 A to 20 A	3.4 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Current	20 A to 1 000 A	0.6 A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (@ 20 Hz to 400 Hz)	1 mV to 1 V	1.6 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage (@ 400 Hz to 10 000 Hz)	1 mV to 1 V	1.8 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 400 Hz)	1 V to 10 V	8.2 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O



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Electrical	Equipment to Measure AC Voltage (@ 400 Hz to 10 000 Hz)	1 V to 10 V	15 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 400 Hz)	10 V to 100 V	93 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 400 Hz to 10 000 Hz)	10 V to 100 V	150 mV	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 Hz to 400 Hz)	100 V to 1 000 V	1.4 V	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 400 Hz to 10 000 Hz)	100 V to 1 000 V	2 V	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	1 $\mu$ A to 200 $\mu$ A	0.76 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	1 $\mu$ A to 200 $\mu$ A	0.76 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	0.2 mA to 2 mA	3 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	0.2 mA to 2 mA	3 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	2 mA to 200 mA	25 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	2 mA to 200 mA	32 $\mu$ A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	0.2 A to 2 A	3.1 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	0.2 mA to 2 mA	6.2 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	0.2 A to 2 A	6.2 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	2 A to 20 A	66 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	2 A to 20 A	92 mA	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 200 Hz)	20 A to 200 A	1.4 A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 200 Hz to 1 000 Hz)	20 A to 200 A	1.8 A	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	9.992 8 $\Omega$	84 m $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100.005 $\Omega$	76 m $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.000 24 k $\Omega$	0.3 $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	9.997 2 k $\Omega$	3.1 $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100.057 k $\Omega$	29 $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O



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Electrical	Equipment to Measure Resistance	1.000 56 M $\Omega$	840 $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	10.007 2 M $\Omega$	8.4 k $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O
Electrical	Equipment to Measure Resistance	99.559 M $\Omega$	770 k $\Omega$	Portable Multifunction Calibrator Meatest M143	Euramet cg-15	F1, F2	F, O

- 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.
- 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.
- Location of activity:
 

<b>Location Code</b>	<b>Location</b>
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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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 T represents temperature in °C or °F as appropriate to the uncertainty statement.
  7. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
  8. 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.