PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Veka Metrology, S.A. de C.V.

Calle Gloria Mendiola No. 116, Col Eduardo Caballero
Guadalupe, Nuevo León, México. C.P. 67117

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, Chemical, Mass, Force and Weighing Device, Mechanical 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:

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:*
February 23, 2025	February 23, 2025	May 31, 2027

Accreditation No.:	*Certificate No.:*
129727	L25-158

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

Veka Metrology, S.A. de C.V.

Calle Gloria Mendiola No. 116, Col Eduardo Caballero
Guadalupe, Nuevo León, México. C.P. 67117
Contact Name: Roman Mendez Phone: 814-067-0123

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)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Dimensional	Outside Micrometer	0.05 in to 18 in	0.000 2 in	Ceramic Blocks Grade 00 Steel Blocks Grade 1	JIS B 7502	F, O
	Outside Micrometer	18 in to 75 in	0.002 1 in	Steel Blocks Grade 1		F, O
	Caliper	0.05 in to 40 in	0.000 39 in	Ceramic Blocks Grade 00 Steel Blocks Grade 1	JIS B 7507	F, O
	Caliper	40 in to 75 in	0.004 1 in	Steel Blocks Grade 1		F, O
	Height Gauge	0.05 in to 40 in	0.000 4 in	Ceramic Blocks Grade 00 Steel Blocks Grade 1	JIS B 7517	F, O
	Height Gauge	40 in to 75 in	0.002 1 in	Steel Blocks Grade 1		F, O
	Thread Plug Gage (Pitch Diameter)	0-8 to 4-12 in	0.000 21 in	Digital Micrometer Tree Wire	Euramet cg-10	F, O
	Dial Gage, Dial Thickness Gage	0.002 in to 2 in	0.000 3 in	Ceramic Blocks, Foil Set	JIS B 7503	F, O
	Thickness Gage	24 µm to 1504 µm	0.21 µm	Foil Set, Positector Calibration	Management Procedure 2529 DeFelsKo	F, O
	Pin Gauge	0.05 in to 1 in	0.000 2 in	Digital Micrometer	Euramet cg-06 Procedure Fabricant Manual	F, O
	Surface Plate (Repeat Measurement)	0.002 in	21 µin	Repeat-O-Meter	JIS B 7513	F, O
	Ruler	5 mm to 1 000 mm	0.54 mm	Ruler Mitutoyo Reticule TCC	JIS B 7516	F, O
	Flexometers	5 mm to 1 000 mm	0.81 mm	Ruler Mitutoyo Reticule TCC	JIS B 7512	F, O

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Dimensional	Optical Comparator (X axis Linearity)	0.1 mm to 600 mm (Res.= 0.5 mm)	0.41 mm	Graduate Reticules	JIS B 7184	F, O
	Optical Comparator (Y axis Linearity)	0.1 mm to 600 mm (Res.= 0.5 mm)	0.41 mm			F, O
	Digital Microscope (Lineal)	0.1 mm to 20 mm (Res.= 0.1 mm)	6.4 µm		JIS B 7153	F, O
	Graduated Reticule	0.1 mm to 20 mm (Res.= 0.001 mm)	0.007 mm	Vinity Digital Microscope	JIS B 7541	F
	Feeler Gauges	0.024 mm to 25 mm	0.002 5 mm	Outside Micrometer	JIS 7524	F, O
Thermodynamic	Bimetallic Thermometer	0° C to 500 °C	0.34 °C	Fluke 726 Sensor Pt 100 Class A Dry Well	Euramet cg-8	F, O
	Temperature Measurement Thermocouple Type J	0° C to 500 °C	0.34 °C			F, O
		500° C to 750 °C	2.6 °C			F
	Temperature Measurement Thermocouple Type K	0° C to 500 °C	0.34 °C			F, O
		500 °C to 1 250 °C	2.6 °C	Fluke 726 Thermocouple type R Land AMETEK		F, O
	Temperature Measurement Thermocouple Type T	0° C to 400 °C	0.34 °C	Fluke 726 Sensor Pt 100 Class A Dry Well		F, O
	Temperature Measurement Sensor RTD Pt 385, 100 Ω	0° C to 500 °C	0.72 °C			F, O
	Thermobalance	40 °C to 200 °C	0.34 °C			F, O
	Furnance	50 °C to 200 °C	1 °C	Fluke 726 Thermocouple K		F, O

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Thermodynamic	Thermohygrometer, (Humidity Only)	30 % RH to 90 % RH	1.3 % RH	Humidity Chamber HTI HT-86	CENAM Technical Guide	F
	Thermohygrometer, (Temperature Only)	25 °C to 50 °C	0.33 °C			F
	Infrared Thermometer	100 °C to 500 °C	0.7 °C	Fluke 62 Max IR Thermometer Black Body Source Complete Calibrator	CENAM Technical Guide	F, O
		500 °C to 1 600 °C	2.6 °C	Fluke 726 with Thermocouple Type R Black Body Source Land AMETEK	CENAM Technical Guide	F
Chemical	pH Meter	4 pH	0.12 pH	Buffer Solution	CENAM Technical Guide	F, O
		7 pH	0.12 pH			F, O
		10 pH	0.12 pH			F, O
	Conductivity Meter	100 µS/cm	2.1 µS/cm			F, O
		1 413 µS/cm	4.6 µS/cm			F, O
		10 000 µS/cm	40 µS/cm			F, O
Mass, Force and Weighing Device	Analytical Balances	1 mg to 200 g (Res.= 0.1 mg)	0.000 1 g	Class F1 Weights	Euramet cg-18 NOM-010-SCFI	O
		610 mg to 4 200 g (Res. = 0.01 g)	0.01 g			O
	Scale and Balances	4 200 g to 24 000 g (Res.= 0.1 g)	0.1 g	Class M1 Weights		O

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Mass, Force and Weighing Device	Scale and Balances	5 kg to 2 000 kg (Res.= 0.2 kg)	0.21 kg	Class M1 Weights	Euramet cg-18 NOM-010-SCFI	O
		1000 kg to 20 000 kg (Res.= 1 kg)	1 kg			O
		20 000 kg to 120 000 kg (Res.= 10 kg)	10 kg			O
	Weight Class M1, M2 and M3	20 000 g	0.33 g	Class F1 Weights	OIML R-111	F
		10 000 g	0.17 g			F
		5 000 g	0.083 g			F
Mechanical	Vacuum Pressure	-12 psi to -1.2 psi (-82.66 kPa to -8.27 kPa)	0.014 psi	Fluke 717 30G	Euramet cg-17 CENAM Technical Guide	F, O
	Pressure Gauge and Transducer	3 psi to 30 psi (20.68 kPa to 206.82 kPa)	0.015 psi			F, O
		30 psi to 500 psi (206.82 kPa to 3447.38 kPa)	0.1 psi	Fluke 717 30G Pressure Gauge 750P07		F, O
		500 psi to 5 000 psi (3447.38 kPa to 34 473.79 kPa)	2.1 psi	Fluke 717 30G Pressure Gauge 700P30		F, O
		5 000 psi to 10 000 psi (34 473.79 kPa to 68 947.57 kPa)	4.3 psi	Fluke 717 30G Pressure Gauge 700P31		F, O
	Torque Meter (Clockwise and Countercklockwise)	10 N.m to 50 N.m	0.1 N.m	Torque Analyzer IMADA	ISO 6789 CEM Procedure	F, O
		50 N.m to 1 000 N.m	1.4 N.m	Torque Analyzer NOBAR		F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple J	-210 °C to 1 200 °C	0.74 °C	Fluke 726 Electrical Simulation of Thermocouple Output	Euramet cg-11	F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple K	-200 °C to 1 372 °C	1.1 °C			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple R	-20 °C to 1 767 °C	1.8 °C			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple S	600 °C to 1 820 °C	1.9 °C			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple T	-250 °C to 400 °C	0.74 °C			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385 100 Ω	-200 °C to 800 °C	0.8 °C	Fluke 726 Electrical Simulation of RTD Output		F, O

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Electrical	Equipment to Measure DC Voltage	33 mV to 329mV	60 µV/V + 30 µV	Fluke 5502A	Euramet cg-15	F, O
		0.33 V to 3.29 V	50 µV/V + 50 µV			F, O
		3.3 V to 32.9 V	50 µV/V + 50 µV			F, O
		33 V to 329 V	12 µV/V + 21 mV			F, O
		330 V to 1 000 V	0.018 µV/V + 3 mV			F, O
	Equipment to Measure DC Current	33 µA to 329 µA	0.15 mA/A + 0.02 µA			F, O
		0.33 mA to 3.29 mA	0.1 mA/A + 0.05 µA			F, O
		3.3 mA to 32.9 mA	0.1 mA/A + 0.25 µA			F, O
		33 mA to 329 mA	0.1 mA/A + 2.5 µA			F, O
		0.33 A to 1.09 A	0.2 mA/A + 40 µA			F, O
		1.1 A to 2.99 A	0.38 mA/A + 40 µA			F, O
		3 A to 11 A	0.5 mA/A + 750 µA			F, O
		11 A to 20 A	1 mA/A + 750 mA/A			F, O
		20 A to 1 000 A	10 mA/A + 750 mA/A			F, O
	Equipment to Measure Resistance	1.1 Ω to 11 Ω	0.22 mΩ/Ω			F, O
		11 Ω to 33 Ω	0.19 mΩ/Ω			F, O
		33 Ω to 109 Ω	0.74 mΩ/Ω			F, O
		109 Ω to 330 Ω	1.5 mΩ/Ω			F, O
		0.33 kΩ to 1.09 kΩ	4.8 mΩ/Ω			F, O
		1.09 kΩ to 3.3 kΩ	22 mΩ/Ω			F, O
		3.3 kΩ to 10.9 kΩ	54 mΩ/Ω			F, O

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Electrical	Equipment to Measure Resistance	10.9 kΩ to 33 kΩ	0.14 Ω/Ω	Fluke 5502A	Euramet cg-15	F, O
		33 kΩ to 109 kΩ	0.52 Ω/Ω			F, O
		109 kΩ to 330 kΩ	1.6 Ω/Ω			F, O
		330 kΩ to 1.09 MΩ	8.7 Ω/Ω			F, O
		1.09 MΩ to 3.3 MΩ	72 Ω/Ω			F, O
		3.3 MΩ to 10.9 MΩ	0.14 kΩ/Ω			F, O
		10.9 MΩ to 33 MΩ	1.9 kΩ/Ω			F, O
		33 MΩ to 400 MΩ	0.2 kΩ/Ω			F, O
		400 MΩ to 640 MΩ	0.49 kΩ/Ω			F, O
		640 MΩ to 1 GΩ	1.1 MΩ/Ω			F, O
	Equipment to Measure AC Voltage (@ 10 Hz to 45 kHz)	1 mV to 32.999 mv	800 mV/V + 6 µV	Fluke 5502A Fluke Coil		F, O
	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 32.999 mV	150 mV/V + 6 µV			F, O
	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 32.999 mV	200 mV/V + 6 µV			F, O
	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 32.999 mV	150 mV/V + 6 µV			F, O
	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 32.999 mV	200 mV/V + 6 µV			F, O

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Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 32.999 mV	1 000 mV/V + 6 µV	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 32.999 mV	3 500 mV/V + 12 µV			F, O
	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 32.999 mV	8 000 mV/V + 50 µV			F, O
	Equipment to Measure AC Voltage (@ 10 Hz to 45 kHz)	33 mV to 329.999 mV	300 mV/V + 8 µV			F, O
	Equipment to Measure AC Voltage (@45 Hz to 10 kHz)	33 mV to 329.999 mV	145 mV/V + 8 µV			F, O
	Equipment to Measure AC Voltage (@10 kHz to 20 kHz)	33 mV to 329.999 mV	160 mV/V + 8 µV			F, O
	Equipment to Measure AC Voltage (@20 kHz to 50 kHz)	33 mV to 329.999 mV	350 mV/V + 8 µV			F, O
	Equipment to Measure AC Voltage (@50 kHz to 100 kHz)	33 mV to 329.999 mV	800 mV/V + 32 µV			F, O

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Electrical	Equipment to Measure AC Voltage (@100 kHz to 500 kHz)	33 mV to 329.999 mV	2 000 mV/V + 70 µV	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Voltage (@10 Hz to 45 kHz)	0.33 V to 3.299 99 V	300 mV/V + 50 µV			F, O
	Equipment to Measure AC Voltage (@45 Hz to 10 kHz)	0.33 V to 3.299 99 V	150 mV/V + 60 µV			F, O
	Equipment to Measure AC Voltage (@10 kHz to 20 kHz)	0.33 V to 3.299 99 V	190 mV/V + 60 µV			F, O
	Equipment to Measure AC Voltage (@20 kHz to 50 kHz)	0.33 V to 3.299 99 V	300 mV/V + 50 µV			F, O
	Equipment to Measure AC Voltage (@50 kHz to 100 kHz)	0.33 V to 3.299 99 V	700 mV/V + 125 µV			F, O
	Equipment to Measure AC Voltage (@100 kHz to 500 kHz)	0.33 V to 3.299 99 V	2 400 mV/V + 600 µV			F, O
	Equipment to Measure AC Voltage (@10 Hz to 45 kHz)	3.3 V to 32.999 9 V	300 mV/V + 650 µV			F, O
	Equipment to Measure AC Voltage (@45 Hz to 10 kHz)	3.3 V to 32.999 9 V	150 mV/V + 600 µV			F, O

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Electrical	Equipment to Measure AC Voltage (@10 kHz to 20 kHz)	3.3 V to 32.999 9 V	240 mV/V + 600 µV	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Voltage (@20 kHz to 50 kHz)	3.3 V to 32.999 9 V	350 mV/V + 600 µV			F, O
	Equipment to Measure AC Voltage (@50 kHz to 100 kHz)	3.3 V to 32.999 9 V	900 mV/V + 1 600 µV			F, O
	Equipment to Measure AC Voltage (@10 Hz to 45 kHz)	33 V to 329.999 V	190 mV/V + 2 000 µV			F, O
	Equipment to Measure AC Voltage (@45 Hz to 10 kHz)	33 V to 329.999 V	200 mV/V + 6 000 µV			F, O
	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 329.999 V	250 mV/V + 6 000 µV			F, O
	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 329.999 V	300 mV/V + 6 000 µV			F, O
	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 329.999 V	2 000 mV/V + 50 000 µV			F, O
	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	330 V to 1 020 V	300 mV/V + 10 000 µV			F, O

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Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 020 V	250 mV/V + 10 000 µV	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1 020 V	300 mV/V + 10 000 µV			F, O
	Equipment to Measure AC Current (@10 Hz to 20 Hz)	29 µA to 329.99 µA	2 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	29 µA to 329.99 µA	1.5 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 µA to 329.99 µA	1.25 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current 1 kHz to 5 kHz)	29 µA to 329.99 µA	3 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	29 µA to 329.99 µA	8 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@10 kHz to 30 kHz)	29 µA to 329.99 µA	16 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.299 99 mA	2 µA/A + 0.1 µA			F, O

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Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.299 99 mA	1.5 µA/A + 0.1 µA	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.299 99 mA	1.3 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.299 99 mA	3 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.299 99 mA	8 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	0.33 mA to 3.299 99 mA	16 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 32.999 9 mA	1.8 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 32.999 9 mA	0.9 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 32.999 9 mA	1.3 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 32.999 9 mA	3 µA/A + 0.1 µA			F, O

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Veka Metrology, S.A. de C.V.

Calle Gloria Mendiola No. 116, Col Eduardo Caballero
Guadalupe, Nuevo León, México. C.P. 67117
Contact Name: Roman Mendez Phone: 814-067-0123

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)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 32.999 9 mA	5 µA/A + 0.1 µA	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 32.999 9 mA	1 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 Hz to 20 Hz	33 mA to 329.999 mA	1.8 µA/A + 0.2 µA			F, O
	Equipment to Measure AC Current (@ 20 Hz to 45 Hz	33 mA to 329.999 mA	0.9 µA/A + 0.2 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 1 kHz	33 mA to 329.999 mA	4 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz	33 mA to 329.999 mA	1 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 5 kHz to 10 kHz	33 mA to 329.999 mA	0.4 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 kHz to 30 kHz	33 mA to 329.999 mA	1 µA/A + 0.1 µA			F, O
	Equipment to Measure AC Current (@ 10 Hz to 45 Hz	0.33 A to 1.099 99 A	150 µA/A + 100 µA			F, O

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Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz	0.33 A to 1.099 99 A	50 µA/A + 100 VA	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz	0.33 A to 1.099 99 A	50 µA/A + 1 000 µA			F, O
	Equipment to Measure AC Current (@ 5 kHz to 10 kHz	0.33 A to 1.099 99 A	200 µA/A + 2 000 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 100 Hz	3 A to 10.999 9 A	100 µA/A + 2 000 µA			F, O
	Equipment to Measure AC Current (@ 100 Hz to 1 kHz	3 A to 10.999 9 A	200 µA/A + 2 000 µA			F, O
	Equipment to Measure AC Current 1 kHz to 5 kHz	3 A to 10.999 9 A	300 µA/A + 2 000 µA			F, O
	Equipment to Measure AC Current (@ 10 Hz to 45 Hz	1.1 A to 2.99 999 A	150 µA/A + 100 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 1 kHz	1.1 A to 2.99 999 A	50 µA/A + 100 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz	1.1 A to 2.99 999 A	50 µA/A + 1 000 µA			F, O

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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz	1.1 A to 2.99 999 A	200 µA/A + 2 000 µA	Fluke 5502A Fluke Coil	Euramet cg-15	F, O
	Equipment to Measure AC Current (@ 45 Hz to 100 Hz	11 A to 20.5 A	1 200 µA/A + 5 000 µA			F, O
	Equipment to Measure AC Current (@ 100 Hz to 1 kHz	11 A to 20.5 A	1 500 µA/A + 5 000 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz	11 A to 20.5 A	3 000 µA/A + 5 000 µA			F, O
	Equipment to Measure AC Current (@ 45 Hz to 100 Hz	20 A to 1 000 A	12 µA/A + 5 000 µA			F, O
	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	20 A to 1 000 A	15 µA/A + 5 000 µA			F, O
	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	20 A to 1 000 A	30 µA/A + 5 000 µA			F, O
	Equipment to Measure Capacitance	220 pF to 399.9 pF	0.5 nF/F + 0.01 nF	Fluke 5502A	Euramet cg-15	F, O
		0.4 nF to 109 99 nF	0.5 nF/F + 0.01 nF			F, O
		1.1 nF to 3.299 9 nF	0.5 nF/F + 0.01 nF			F, O
		3.3 nF to 10.999 nF	0.25 nF/F + 0.1 nF			F, O
		11 nF to 32.999 nF	0.25 nF/F + 0.1 nF			F, O

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Electrical	Equipment to Measure Capacitance	33 nF to 109.99 nF	0.25 nF/F + 0.3 nF	Fluke 5502A	Euramet cg-15	F, O
		110 nF to 329.99 nF	0.25 nF/F + 1 nF			F, O
		0.33 µF to 1.099 9 µF	0.25 nF/F + 3 nF			F, O
		1.1 µF to 3.299 9 µF	0.25 nF/F + 10 nF			F, O
		3.3 µF to 10.999 µF	0.4 nF/F + 30 nF			F, O
		11 µF to 32.999 µF	0.45 nF/F + 100 nF			F, O
		33 µF to 109.99 µF	0.45 nF/F + 300 nF			F, O
		110 µF to 329.99 µF	0.45 µF/F + 1 µF			F, O
		0.33 mF to 1.099 9 mF	0.45 µF/F + 3 µF			F, O
		1.1 mF to 3.299 9 mF	0.45 µF/F + 10 µF			F, O
		3.3 mF to 10.999 mF	0.45 µF/F + 10 µF			F, O
		11 mF to 32.999 mF	0.75 µF/F + 30 µF			F, O
		33 mF to 110 mF	1.1 µF/F + 100 µF			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C	0 ºC to 150 ºC	0.23 ºC	Fluke 5502A Electrical Simulation of Thermocouple Output	Euramet cg-15	F, O
		-100 ºC to -25 ºC	0.12 ºC			F, O
		-25 ºC to 350 ºC	0.1 ºC			F, O
		350 ºC to 650 ºC	0.12 ºC			F, O
		650 ºC to 1 000 ºC	0.16 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 ºC to -100 ºC	0.2 ºC			F, O
		-100 ºC to -30 ºC	0.12 ºC			F, O
		-30 ºC to 150 ºC	0.1 ºC			F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 ºC to 760 ºC	0.13 ºC	Fluke 5502A Electrical Simulation of Thermocouple Output	Euramet cg-15	F, O
		760 ºC to 1 200 ºC	0.18 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 ºC to -100 ºC	0.25 ºC			F, O
		-100 ºC to -25 ºC	0.14 ºC			F, O
		-25 ºC to 120 ºC	0.12 ºC			F, O
		120 ºC to 1 000 ºC	0.19 ºC			F, O
		1 000 ºC to 1 372 ºC	0.3 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	-200 ºC to -100 ºC	0.37 ºC			F, O
		-100 ºC to 800 ºC	0.26 ºC			F, O
		800 ºC to 900 ºC	0.17 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 ºC to -100 ºC	0.3 ºC			F, O
		-100 ºC to -25 ºC	0.17 ºC			F, O
		-25 ºC to 120 ºC	0.15 ºC			F, O
		120 ºC to 410 ºC	0.14 ºC			F, O
		410 ºC to 1 300 ºC	0.21 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 ºC to 250 ºC	0.48 ºC			F, O
		250 ºC to 400 ºC	0.28 ºC			F, O
		400 ºC to 1 000 ºC	0.26 ºC			F, O
		1 000 ºC to 1 767 ºC	0.3 ºC			F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 ºC to 250 ºC	0.47 ºC	Fluke 5502A Electrical Simulation of Thermocouple Output	Euramet cg-15	F, O
		250 ºC to 1 000 ºC	0.3 ºC			F, O
		1 000 ºC to 1 400 ºC	0.28 ºC			F, O
		1 400 ºC to 1 767 ºC	0.34 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 ºC to -150 ºC	0.48 ºC			F, O
		-150 ºC to 0 ºC	0.18 ºC			F, O
		0 ºC to 120 ºC	0.12 ºC			F, O
		120 ºC to 400 ºC	0.1 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	-200 ºC to 0 ºC	0.56 ºC			F, O
		0 ºC to 600 ºC	0.27 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385-100 Ω	-200 ºC to -80 ºC	0.04 ºC	Fluke 5502A Electrical Simulation of RTD Output		F, O
		-80 ºC to 0 ºC	0.05 ºC			F, O
		0 ºC to 100 ºC	0.07 ºC			F, O
		100 ºC to 300 ºC	0.08 ºC			F, O
		300 ºC to 400 ºC	0.09 ºC			F, O
		400 ºC to 630 ºC	0.1 ºC			F, O
		630 ºC to 800 ºC	0.21 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926-100 Ω	-200 ºC to -80 ºC	0.04 ºC			F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3926, 100 Ω	-80 ºC to 0 ºC	0.05 ºC	Fluke 5502A Electrical Simulation of RTD Output	Euramet cg-15	F, O
		0 ºC to 100 ºC	0.07 ºC			F, O
		100 ºC to 300 ºC	0.08 ºC			F, O
		300 ºC to 400 ºC	0.09 ºC			F, O
		400 ºC to 630 ºC	0.1 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3916, 100 Ω	200 ºC to -190 ºC	0.25 ºC			F, O
		-190 ºC to -80 ºC	0.04 ºC			F, O
		-80 ºC to 0 ºC	0.05 ºC			F, O
		0 ºC to 100 ºC	0.06 ºC			F, O
		100 ºC to 260 ºC	0.06 ºC			F, O
		260 ºC to 300 ºC	0.07 ºC			F, O
		300 ºC to 400 ºC	0.08 ºC			F, O
		400 ºC to 600 ºC	0.08 ºC			F, O
		600 ºC to 630 ºC	0.21 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω	-200 ºC to -80 ºC	0.04 ºC			F, O
		-80 ºC to 0 ºC	0.04 ºC			F, O
		0 ºC to 100 ºC	0.04 ºC			F, O
		100 ºC to 260 ºC	0.05 ºC			F, O
		260 ºC to 300 ºC	0.12 ºC			F, O
		300 ºC to 400 ºC	0.13 ºC			F, O
		400 ºC to 600 ºC	0.14 ºC			F, O
		600 ºC to 630 ºC	0.16 ºC			F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω	-200 ºC to -80 ºC	0.04 ºC	Fluke 5502A Electrical Simulation of RTD Output	Euramet cg-15	F, O
		-80 ºC to 0 ºC	0.05 ºC			F, O
		0 ºC to 100 ºC	0.05 ºC			F, O
		100 ºC to 260 ºC	0.06 ºC			F, O
		260 ºC to 300 ºC	0.08 ºC			F, O
		300 ºC to 400 ºC	0.08 ºC			F, O
		400 ºC to 600 ºC	0.09 ºC			F, O
		600 ºC to 630 ºC	0.11 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1 000 Ω	200 ºC to -80 ºC	0.04 ºC			F, O
		-80 ºC to 0 ºC	0.05 ºC			F, O
		0ºC to 100 ºC	0.04 ºC			F, O
		100 ºC to 260 ºC	0.05 ºC			F, O
		260 ºC to 300 ºC	0.06 ºC			F, O
		300º C to 400 ºC	0.07 ºC			F, O
		400 ºC to 600 ºC	0.07 ºC			F, O
		600 ºC to 630 ºC	0.23 ºC			F, O
	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt Ni 385, 120 Ω (Ni 120)	-80 ºC to 0 ºC	0.08 ºC			F, O
		0 ºC to 100 ºC	0.08 ºC			F, O
		100 ºC to 260 ºC	0.14 ºC			F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Type Pt Cu 385, 10 Ω	-100 ºC to 260 ºC	0.3 ºC	Fluke 5502A Electrical Simulation of RTD Output	Euramet cg-15	F, O
	Decade Box	1 Ω to 100 MΩ	0.05 Ω	Fluke 289		F, O
	Equipment to Measure Insulation Resistance (Fixed to 5 KV)	1 kΩ	0.12 % of reading	High Resistence Standard Decade Box		F, O
	Equipment to Measure Insulation Resistance (Fixed to 5 KV)	10 kΩ	0.12 % of reading			F, O
	Equipment to Measure Insulation Resistance (Fixed to 5 KV)	100 kΩ	0.12 % of reading			F, O
	Equipment to Measure Insulation Resistance (Fixed to 5 KV)	1 MΩ	0.12 % of reading			F, O
	Equipment to Measure Insulation Resistance (Fixed to 5 KV)	10 MΩ	0.12 % of reading			F, O

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

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2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

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