



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization

MinLab, S.A. de C.V.

***Dimitry No. 319, Rincon de las Fuentes
Apodaca, Nuevo León, México. C.P. 66620***

*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:

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

January 08, 2025

Issue Date:

January 08, 2025

Expiration Date:

April 30, 2027

Revision Date:

April 08, 2026

Accreditation No.:

129606

Certificate No.:

L25-21 R2

*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.pjilabs.com*



Certificate of Accreditation: Supplement

MinLab, S.A. de C.V.

Dimitry No. 319, Rincon de las Fuentes
Apodaca, Nuevo León, México. C.P. 66620
Contact Name: Tomas Antonio Vanegas Ponce. Phone: 814-404-3011

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Thermodynamic	Thermometer (Direct Reading)	-20 °C to 400 °C	0.31 °C	PRT With Indicator Wika	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Thermocouples Type K, J, T, E, N, R, S, B	-20 °C to 400 °C	0.31 °C	PRT With Indicator Wika	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Infrared Thermometer	-20 °C to 500 °C	1.8 °C	Black Body Fluke	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Thermometer Probes RTD	-20 °C to 400 °C	0.31 °C	PRT with Indicator Wika	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Liquid in Glass Thermometer	-20 °C to 400 °C	0.42 °C	PRT with Indicator Wika	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Thermal Oven, Muffle, Furnaces	50 °C to 1 100 °C	0.92 °C	Thermocouple Type K and Indicator Digital	CENAM Technical Guide	F1, F2	O
Thermodynamic	Liquid Baths & Incubators, Chamber, Freezer, Refrigerator	-80 °C to 420 °C	0.1 °C	PRT with Indicator Wika	CENAM Technical Guide	F1, F2	O
Thermodynamic	Thermo-Hygrometers (Temperature)	0 °C to 50 °C	0.31 °C	Thermo-Hygrometers Lufft Reference	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Thermo-Hygrometers (Humidity)	12 % RH to 95 % RH	2.3 % RH	Thermo-Hygrometers Loft, Reference	CENAM Technical Guide	F1, F2	F, O



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Thermodynamic	Furnace, Freezer, Incubator, Chamber, Muffle, Oven, Liquid Baths (Temperature System Accuracy Test (SAT), Temperature Uniformity Surveys- (TUS))	-20 °C to 1 100 °C	0.98 °C	Data Logger/ Recorder Temperature, Thermocouple Type T, K	CENAM Technical Guide AMS 2750 Characterization	F1, F2	F, O
Thermodynamic	Chamber, Warehouse (Humidity Uniformity)	12 % RH to 95 % RH	2.5 % RH	Data Logger/ Recorder Humidity	CENAM Technical Guide	F1, F2	F, O
Chemical	Hydrogen Potential Meters (pH)	4 pH	0.02 pH	pH Buffer Solutions (CRM)	CENAM Technical Guide	F1, F2	F, O
Chemical	Hydrogen Potential Meters (pH)	7 pH	0.035 pH	pH Buffer Solutions (CRM)	CENAM Technical Guide	F1, F2	F, O
Chemical	Hydrogen Potential Meters (pH)	10 pH	0.042 pH	Conductivity Solutions (CRM)	CENAM Technical Guide	F1, F2	F, O
Chemical	Electrolytic Conductivity Meter	1 413 μ S/cm	4.8 μ S/cm	Conductivity Solutions (CRM)	CENAM Technical Guide	F1, F2	F, O
Mechanical	Pressure Gauges Transducers and Transmitters	6.89 kPa to 2 068.4 kPa	2.1 kPa	Pressure Transducers Fluke	ASME B40.100	F1, F2	F, O
Mechanical	Pressure Gauges Transducers and Transmitters	-68.9 kPa to -6.8 kPa	0.3 kPa	Pressure Transducers Fluke	ASME B40.100	F1, F2	F, O



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Mechanical	Pressure Gauges Transducers and Transmitters	2 068.4 kPa to 62 052.8 kPa	5.1 kPa	Pressure Transducers Fluke	ASME B40.100	F1, F2	F, O
Mechanical	Torque Meters	55 N•m to 550 N•m	1.2 N•m	Standard Torque Transducer ALIYIQI	ISO 6789 NMX-CH-6789-IMNC	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1.04 mV to 104 mV	0.019 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	0.104 V to 1.04 V	0.013 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	1.04 V to 10.4 V	0.013 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	10.4 V to 104 V	0.013 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Voltage	104 V to 1 020 V	0.013 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1.04 μ A to 104 μ A	0.06 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current	0.104 mA to 1.04 mA	0.04 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Measure DC Current	1.04 mA to 10.4 mA	0.04 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current	10.4 mA to 104 mA	0.04 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current	104 mA to 1 040 mA	0.05 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current	1.04 A to 10.2 A	0.07 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure DC Current (Clamp-On Meters)	10 A to 500 A	0.46 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1 Ω to 10 Ω	0.073 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	10.1 Ω to 100 Ω	0.073 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100.1 Ω to 1 000 Ω	0.061 % of reading	Multifunction Calibrator Transmille 1000 ^a	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Measure Resistance	1.01 k Ω to 10 k Ω	0.073 % of reading	Multifunction Calibrator Transmille 1000 ^a	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	10.1 k Ω to 100 k Ω	0.073 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	100.1 k Ω to 1 000 k Ω	0.061 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.01 M Ω to 10 M Ω	0.086 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 1.999 kHz)	1.04 mV to 104 mV	0.12 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 20 kHz)	1.04 mV to 104 mV	0.22 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	10.4 V to 104 V	0.11 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	104 V to 1 020 V	0.11 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	10.4 μ A to 104 μ A	0.53 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	0.104 mA to 1.04 mA	0.24 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	1.04 mA to 10.4 mA	0.2 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	10.4 mA to 104 mA	0.18 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (10 Hz to 2 kHz)	104 mA to 1 040 mA	0.18 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	1.04 A to 10.4 A	0.25 A	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure AC Current (Clamp-On Meters)	10 A to 500 A	1.1 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC High Current	40 A to 1 000 A	0.98 % of reading	Clamp Meter Fluke 355	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output AC High Current (@ 60 Hz)	40 A to 1 000 A	0.65 % of reading	Clamp Meter Fluke 355	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC High Voltage (Hipot)	1 kV to 35 kV	0.89 kV	Multimeter and High Voltage Divisor Fluke 80K-40 Owon B41T	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC High Voltage (@ 60 Hz) (Hipot)	1 kV to 23 kV	0.34 kV	Multimeter and High Voltage Divisor Fluke 80K-40 Owon B41T	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	10 nF	0.08 nF	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	100 nF	0.81 nF	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1 μ F	0.81 μ F	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	1 mV to 100 mV	0.012 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	0.1 V to 1 V	0.012 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output DC Voltage	1 V to 10 V	0.012 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	0.012 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1000 V	0.023 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Current	1 mA to 10 mA	0.052 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Current	10 mA to 100 mA	0.051 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Current	0.1 A to 1 A	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Current	1 A to 3 A	0.23 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output DC Current	3 A to 10 A	0.3 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output Resistance	1 Ω to 100 Ω	0.04 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	0.1 Ω to 1 k Ω	0.023 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 k Ω to 10 k Ω	0.022 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 k Ω to 100 k Ω	0.022 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	0.1 M Ω to 1 M Ω	0.034 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	1 M Ω to 10 M Ω	0.21 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Resistance	10 M Ω to 100 M Ω	2.1 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Capacitance	0.1 nF to 1 nF	2.8 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output Capacitance	1 nF to 10 nF	1.5 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Capacitance	10 nF to 100 nF	1.5 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Capacitance	0.1 μ F to 1 μ F	1.5 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Capacitance	1 μ F to 10 μ F	1.5 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output Capacitance	10 μ F to 100 μ F	1.5 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple K	-200 °C to 1 350 °C	1 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple J	-200 °C to 1 200 °C	1 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Temperature Calibration Output, Equipment used with Thermocouple T	-250 °C to 400 °C	1.5 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple E	-250 °C to 1 000 °C	1.5 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple N	-200 °C to 1 300 °C	1 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple R	0 °C to 1750 °C	1.5 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration Output, Equipment used with Thermocouple S	0 °C to 1 750 °C	1.5 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ($\pm$) ¹	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Temperature Calibration Output, Equipment used with Thermocouple B	600 °C to 1 800 °C	1.5 °C	Multimeter Digital Keithley 2110 Electrical Simulation of Thermocouple Output	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 kHz)	10 mV to 100 mV	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 mV to 100 mV	0.30 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 mV to 100 mV	0.73 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 kHz)	0.1 V to 1 V	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	0.1 V to 1 V	0.30 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	0.1 V to 1 V	0.73 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 kHz)	1 V to 10 V	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	1 V to 10 V	0.3 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	1 V to 10 V	0.73 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 kHz)	10 V to 100 V	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 V to 100 V	0.3 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 V to 100 V	0.73 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 10 Hz to 20 kHz)	100 V to 750 V	0.17 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	100 V to 750 V	0.3 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	100 V to 750 V	0.73 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O



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Electrical	Equipment to Output AC Current (10 Hz to 900 Hz)	0.1 A to 1 A	0.36 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Current (900 Hz to 5 kHz)	0.1 A to 1 A	1.6 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Current (10 Hz to 900 Hz)	1 A to 3 A	0.36 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Current (900 Hz to 5 kHz)	1 A to 3 A	1.6 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Current (10 Hz to 900 Hz)	3 A to 10 A	0.62 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Output AC Current (900 Hz to 5 kHz)	3 A to 10 A	2.7 % of reading	Multimeter Digital Keithley 2110	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Pt 100 Ω	-200 °C to 0 °C	0.66 °C	Transmille 1000A Electrical Simulation of RTD Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Pt 100 Ω	0 °C to 800 °C	0.77 °C	Electrical Simulation of RTD Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	600 °C to 1 820 °C	1.6 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-250 °C to -100 °C	1.2 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-100 °C to 650 °C	0.63 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	650 °C to 1000 °C	0.65 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.74 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to 150 °C	0.62 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	150 °C to 760 °C	0.64 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	760 °C to 1 200 °C	0.69 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.79 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to 120 °C	0.65 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	120 °C to 1 370 °C	0.78 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 °C to -100 °C	1.1 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-100 °C to 410 °C	0.7 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.75 °C	Transmille 1000A Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Temperature Indication and Control Used with Thermocouple Type R	0 °C to 250 °C	1.7 °C	Transmille Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Temperature Indication and Control Used with Thermocouple Type S	0 °C to 250 °C	1.7 °C	Transmille Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Equipment to Measure Temperature Indication and Control Used with Thermocouple Type S	250 °C to 1 760 °C	1.2 °C	Transmille Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to 150 °C	1.4 °C	Transmille Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	150 °C to 400 °C	0.62 °C	Transmille Electrical Simulation of Thermocouple Output	Euramet_cg-11 CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Stopwatches /Timer	10 s to 86 400 s	0.1 s	Stopwatch	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Tachometers	50 rpm to 30 000 rpm	0.1 % of reading	Tachometer	CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequencies	1 Hz to 1 000 Hz	0.58 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequencies	1 kHz to 100 kHz	0.0058 % of reading	Multifunction Calibrator Transmille 1000A	Euramet_cg-15 CENAM Technical Guide	F1, F2	F, O
Dimensional	Calipers	Up to 450 mm	$(13 + 7 \times 10^{-3}L) \mu\text{m}$	Gauge blocks	NMX-CH-002-IMNC, JIS B7507	F1, F2	F, O
Dimensional	Micrometers	Up to 300 mm	$(1.4 + 0.014L) \mu\text{m}$	Gauge blocks	NMX-CH-099-IMNC, JIS B7502	F1, F2	F, O
Dimensional	Tapes and Rules	Up to 20 m	$(67 + 0.012L) \mu\text{m}$	Steel Rule and Microscope	JIS B 7512, JIS B 7516, NMX-148-IMNC NOM-046-SCFI	F1, F2	F, O
Mass, Force, and Weighing Devices	Force Measuring Systems, Gauges and Devices	4.90 N to 196.13 N	0.14 % of reading	Dead Weights Rice Lake M1	ISO 7500	F1, F2	F, O



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Mass, Force, and Weighing Devices	Analytical Balances	1 mg to 300 g (Res.= 0.01 mg)	$(9 \times 10^{-4} + 1.49 \times 10^{-2} \text{Wt})$ mg	Weights Class F1	CENAM Technical Guide, Euramet-cg-18	F1, F2	F, O
Mass, Force, and Weighing Devices	Scales	1 g to 2 000 g (Res.= 0.001g)	$(2 \times 10^{-6} + 8.2 \times 10^{-3} \text{Wt})$ g	Weights Class F1	CENAM Technical Guide, Euramet-cg-18	F1, F2	F, O
Mass, Force, and Weighing Devices	Scales	1 kg to 10 kg (Res.= 0.01kg)	$(1.7 \times 10^{-3} + 1.63 \times 10^{-2} \text{Wt})$ g	Weights Class F1, M1	CENAM Technical Guide, Euramet-cg-18	F1, F2	F, O
Mass, Force, and Weighing Devices	Scales	10 kg to 500 kg (Res.= 0.1 kg)	$(1.71 \times 10^{-3} + 8.16 \text{Wt})$ g	Weights Class M1	CENAM Technical Guide, Euramet-cg-18	F1, F2	F, O

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



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

3. Location of activity:

**Location
Code**

Location

- | | |
|---|---|
| F | Conformity assessment activity is performed at the CAB's fixed facility |
| O | Conformity assessment activity is performed onsite at the CAB's customer location |

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

7. 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.