

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Calmet Industrial, S.A. de C.V.

1^{era} Privada 4831, Col. Niño Artillero Monterrey, Nuevo León, México. C.P. 64280

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

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

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen President

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084 *Initial Accreditation Date:* February 11, 2011 *Issue Date:* October 17, 2023

Expiration Date:

November 30, 2025

Accreditation No.: 45294

Certificate No.: L23-760

The validity of this certificate is maintained through ongoing assessment s based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: <u>www.pjlabs.com</u>

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Calmet Industrial, S.A. de C.V. 1^{era} Privada No. 4831, Col. Niño Artillero Monterrey, Nuevo León, México. C.P. 64280 Contact Name: Eliud Elizondo Phone: 818-351-0368

Dimensional			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Outside Micrometers ^{FO}	1 mm to 1 000 mm	1.8 μm	Gage Block Sets NMX-CH-099-IMNC
Laser Micrometer ^{FO}	0.1 mm to 50 mm	(0.13 + 6 x 10 ⁻³ L) μm	Pin Gage Set NMX-CH-099-IMNC
Caliper ^{FO}	1 mm to 1 000 mm	9.6 µm	Gage Block Sets NMX-CH-002-IMNC
Indicator ^{FO}	0.01 mm to 50.8 mm	0.76 µm	Dial Gauge Calibration Tester NMX-CH-36, JIS B-7503
Rules ^{FO}	1 mm to 2 000 mm	0.35 mm	Standard Steel Ruler, Microscope JIS B 7516
Surface Plates Repeat Measurement ^O	300 mm to 4 000 mm	1.9 μm	Indicator Mitutoyo 543-554-1 JIS B 7513
Optical Comparator, Vision System and Microscope Length X Axis Linearity	0.5 mm to 508 mm	3.3 µm	Standard Glass Scale Gage Block Sets Angle Block JIS B 7184
Y Axis Linearity Z Axis Linearity Error of Indication ⁰	0.5 mm to 508 mm 0.5 mm to 508 mm	3.3 µm 5.8 µm	
Optical Comparator, Vision System and Microscope Angularity ⁰	0° to 90°	0.38°	
Microscope Angularity ⁰ Height Gage ^{F0}	1 mm to 1 000 mm	11 μm	Gage Block Sets JIS B 7517
Pin Gages ^F	0.254 mm to 76.2 mm	1.4 μm	Micrometer ASME B 89 1.5
Thread Plug Gage Major Diameter ^F	0-80 to 4-12	2.8 µm	Conventional Micrometer ANSI/ASME B1.2
Ultrasonic Thickness ^{FO}	0.022 mm to 1.977 mm	2 μm	Thickness Gages ASTM E 797
Thread Plug Gage Pitch Diameter ^F	0-80 to 4-12	2.8 μm	Wires and Digital Micrometer ANSI/ASME B1.2
Measuring Tape ^F	0.001 m to 10 m	0.48 mm	Standard Steel Ruler JIS B 7512
Thickness Gages ^{FO}	0.022 mm to 1 mm	$(2.37 + 0.8L) \mu m$	Micrometer JIS B 7524
Depth Micrometer ^{FO}	2.5 mm to 150 mm	(2.23 + 6.78 x 10 ⁻⁴ L) μm	Block Gages JIS B 7544



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Protector Angle Meter ^{FO}	0° to 90°	0.38°	Angle Blocks NMX-CH-151
Angle Gage Block ^{FO}	1° to 30°	0.02 °	Coordinate Measuring Machines (CMM) CEM Procedure DI-017
Inside Micrometers ^{FO}	25 mm to 600 mm	1.8 μm	Caliper Checks NMX-CH-093-IMNC
Gages Blocks ^F	0.5 mm to 100 mm	(2.6 x 10 ⁻² + 7.1 x 10 ⁻⁵ L) μm	Set Master Block Grade K
	0.05 in to 20 in	(3.1 + 1.9L) μin	Edmunds Twin Head Comparator NMX-CH-3650
Roughness Meter Ra ^F	0.21 μm to 3 μm	0.07 μm	Ra Roughness Master ISO 4287 NMX-CH-4287
CMM Calibration and Volumetric Inspection ⁰	10 mm to 10 000 mm	(0.6 + 1.2L) μm	Gage Block, Laser Interferometer Sphere ISO 10360-2
Coordinate Measuring Machines (CMM) Linear Displacement	Up to 18 000 mm	(0.3 + 1L) μm	B89.4.10360.2 Laser Interferometer Gage Blocks ISO 10360-2 ASME
Length Measuring Error	Up to 1 500 mm	(0.41 + 1.3L) μm	Gage Blocks ISO 10360-2 ASME
Single Stylus and Multi- Stylus Probing error ⁰	30 mm (diameter)	0.73 μm	Test Sphere ISO 10360-5
Bore Gage ^F	6 mm to 100 mm	2.6 µm	Ring Gage Sets, JIS B7515
Radius Gage ^{FO}	0.4 mm to 25.4 mm	5 μm	Vision System Machine ISO-2769-2, ISO-22081
Ring Gages ^F	1 mm to 205 mm	6.3 μm	Trimos Tels Coordinate Measuring Machines (CMM) ASME B89.1.6
Sieve ^F	0.01 mm to 16 mm	4.3 μm	Vision System Machine ASTM E11
	18 mm to 100 mm	4.8 μm	Coordinate Measuring Machines (CMM) ASTM E11
Numerically Controlled Machine Tool (CNC) – X, Y, Z Axial Positional Deviation (Linear Displacement Accuracy) ⁰	Up to 18 000 mm	(1.6 + 0.2L) μm	Laser Interferometer ISO 230-2

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Standard and Measuring Rods to Micrometer zero Setting ^{FO}	25 mm to 1 000 mm (1 in to 40 in)	2.6 μm	Coordinate Measuring Machines (CMM) JIS B 7420, BS 5317, NMX- CH-099-IMNC 6.10, IS0-3611
90° Steel Squares Perpendicularity ^{FO} 50.8 to 457.2 mm	Up to 800 mm 90°	6.1 μm 0.000 3°	Coordinate Measuring Machines (CMM) C.E.M. DI-009 Procedure NMX-CH-062-IMNC JIS B 7526, DIN 875-1
Contour Measuring Machines ^{FO} X Axis Y Axis Contour Measuring Machines Angle ^{FO}	Up to 200 mm 0° to 90°	0.042 mm 0.003 6°	Set Master Block JIS B 7450 CEM procedure DI-010
Contour Measuring Machines Rougness Meter Ra ^{FO}	0.21 μm to 3 μm	0.07 µm	Ra Roughness Master ISO 4287
Contour Measuring Machines Diameter ^{FO}	Up to to 30 mm	0.042 μm	Standard Sphere ISO 10360-5
Roundness Measuring Machines Roundness Error	24.7 mm to 400 mm	0.029 μm	Reference Hemisphere standard ring gages JIS B 7451 ISO 4291
Extensometer to Measuring Length Installed on Uniaxial Testing of Material Machine ^{FO}	0.001 mm to 25.4 mm	(8.5 x 10 ⁻¹ + 1.2 x 10 ⁻³ L) μm	Micrometric Head Standard INSTRON, ARIZONA TOOL & DIE CO. CEM ME-022
Length Measuring Wheel with Odometer and Measuring System with Odometer or Length Meter Counter ^{FO}	Up to 9 999.9 m	(5.91 x 10 ⁻³ + 1.9 x 10 ⁻³ L) m	Tachometer Extech Measuring Tape Geometry NMX-CH-74
Optical Portable 3D Scanner -Probing Size Error ^{FO} Optical Portable 3D Scanner -Sphere Spacing Error ^{FO}	Up to 30 mm (Diameter) Up to 2 m	4.9 μm 7.6 μm	Ball Bar Standards whit Reference Spheres VDI/VDE 2634 Part 3
Articulated Arm (ACMM) Verification ^{FO}	Up to 2 000 mm	(1.88 x 10 ⁻³ + 6 x 10 ⁻⁶ L) mm	Ball Bar Standards whit Reference Spheres, Set Master Block Gage Grade K ISO 10360-12

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Torque Meter	0.23 N·m to 1.13 N·m	0.001 5 N·m	Torque Tester
Clockwise and	0.5 N·m to 5.65 N·m	0.006 4 N [.] m	ISO 6789
CounterclockwiseFO	5.6 N·m to 56 N·m	0.066 N [.] m	NMX-CH-6789-IMNC
	81.3 N·m to 813 N·m	1.1 N [.] m	
	8.4 N·m to 84 N·m	0.58 N [.] m	
	203.33 N·m to 2 033.62 N·m	1.4 N [.] m	
Pressure Gauge and Pressure	20.68 kPa to 206.84 kPa	5.2 x 10 ⁻² kPa	Fluke 717 30G
Transducer ^{FO}	206.8 kPa to 2 068 kPa	0.52 kPa	NOM-013-SCFI
Pressure Gauge and	689.47 kPa to 6 894.75 kPa	3.4 kPa	Fluke 700P27EX
Transducer ^{FO}	6 894.75 kPa to 68 947.57 kPa	35 kPa	BETA BGPIR-PRO-01K NOM-013-SCFI
	-85 kPa to -8.5 kPa	2 Pa	Fluke 700 P31 Fluke 718 1G, 717 30G NOM-013-SCFI
	Up to 6.8 kPa	0.8 Pa	Fluke 717 30G NOM-013-SCFI
Pressure Drop Meter of	0.490 33 kPa to 8.825 985 kPa	1.5 % of reading	Multi-Capillary Pressure
QTM ^o 17.5 ml/s	50 mm/H ₂ O to 900 mm/H ₂ O	1.5 % of reading	Drop Standard QTM Manufacturer Guide ISO 6565
Indirect Verifications	20 HRC to 30 HRC	0.43 HRC	Test Blocks
Hardness tester HRC ^{FO}	31 HRC to 59HRC	0.41 HRC	ISO-6508-2 ASTME
HRU	60 HRC to 70 HRC	0.41 HRC	
Indirect Verifications	40 HRB to 59 HRB	0.84 HRB	
Hardness tester HRB ^{FO}	60 HRB to 79 HRB	0.84 HRB	
	80 HRB to 100 HRB	0.66 HRB	
Indirect Verification of Brinell Hardness Testers HBW ^{FO}	95 HBW to 514 HBW	0.95 HBW	Brinell Hardness Blocks ISO 6506 –2
Micro-Indentation Hardness Testers HV ^{FO}	200 HV to 700 HV	7.7 HV	Vickers Hardness Blocks ISO 6507
Indirect Verification of Lebb Hardness Tester HLD ^{FO}	449 HLD to 800 HLD	5 HLD	Lebb Hardness Blocks ASTM A956, ISO 16859-2
Leak Test ^{FO}	0.015 L/min to 0.2 L/min	0.005 L/min	Furness Controls (Res.= 0.001 L/min) NIST-SP250-38

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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Leak Test ^{FO}	14 L/min to 113 L/min	1 L/min	F and J Specialty Products NIST-SP250-38
Accelerometer ^F	10.2 m/s ² to 30 m/s ²	0.34 m/s ²	Agilent 34401, Fluke 289 Fluke 45, Accelerometer Endevco 2256A-100 + Endevco 4416B Data Acquisition, ISO 16063-21
Test Tube ^F	5 mL	6.4 % of reading	Analitycal Balance
	10 mL	3.2 % of reading	ISO 8655, ASTM E 542–01
	25 mL	1.3 % of reading	
	50 mL	0.64 % of reading	
	100 mL	0.32 % of reading	
	250 mL	0.13 % of reading	
	500 mL	0.064 % of reading	
	1 000 mL	0.032 % of reading	
	2 000 mL	0.017 % of reading	
Pipette ^F	0.01 mL to 0.1 mL	0.62 % of reading	
	0.02 mL to 0.2 mL	0.62 % of reading	
	0.1 mL to 0.2 mL	0.58 % of reading	
	0.1 mL to 1 mL	0.58 % of reading	
	0.5 mL to 5 mL	0.58 % of reading	
	1 mL to 5 mL	0.58 % of reading	
	1 mL to 10 mL	0.29 % of reading	
	10 mL to 50 mL	0.24 % of reading	
Volumetric Flask ^F	5 mL to 2 000 mL	0.33 mL	
Picnometer ^F	10 mL to 500 mL	0.33 mL	
Burette ^F	5 mL	0.33 mL	
	10 mL	0.33 mL	
	25 mL	0.33 mL	
	50 mL	0.33 mL	
	100 mL	0.33 mL	
	250 mL	0.33 mL	
	500 mL	0.33 mL	
	1 000 mL	0.33 mL	



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Mechanical			
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Densimeter ^F	0.6 kg/m ³ to 1.3 kg/m ³	0.06 kg/m ³	Analytical Balance CENAM Technical Guide
Liquid Flow Meter ^{FO}	0.1 L/min to 30 L/min	0.65 L/min	ZJ-LCD-M & YF-S201 Measuring Flow System CENAM Technical Guide
	0.1 L/min to 45 L/min	0.23 % of reading	Coriolis Type Flow Meter CENAM Technical Guide
	0.1 L/min to 200 L/min	0.29 % of reading	Stopwatch and Weighing Device, OIML R 117 ISO-4604-3 CENAM Technical Guide
	0.1 L/min to 37 854.12 L/min (0.026 GPM to 10 000 GPM) DN 6 to DN 700	0.38 % of reading	Ultrasonic Flow Meter CENAM Technical Guide
Air Velocity Measuring System and Anemometers ^F	1.3 m/s to 25 m/s	0.43 m/s	Fluke 925 Vane Anemometer IEC 61400-12-1 ASTM D5096, NIST Guide
Air Velocity of Sources and Fume Hood ⁰	1.1 m/s to 25 m/s	0.79 m/s	Fluke 925 Vane Anemometer ANSI/ASHRAE 110
Vaccum Gauge and Transducer ^F	0.000 1 kPaA to 2.666 kPaA (1 micron to 20 000 micron)	5.8 PaA	TESTO 525 Vacuum Gauge, Fluke 71730G Fluke 7171G NOM-013-SCFI
Barometer ^F	0.001 kPa to 101.592 kPa (0.013 mBar to 1 015.92 mBar)	9.9 PaA	TESTO 525 Vacuum Gauge, Fluke 71730G, Fluke 7171G, Vacuum Chamber OIML R 97
Direct Verification of Durometer Hardness Tester Type A, C, D ^{FO}	2.46 mm to 2.54 mm	8 μm	System Vision ASTMD-2240
Grometry of the Indentor ^{FO}		8 µm	System Vision
Durometer Indentor Spring Type A ^{FO} Durometer Indentor Spring	0.55 N to 8.05 N	0.32 N	Electronic Balance
Type C and D ^{FO}	4.45 N to 44.45 N	0.32 N	

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Mechanical			
MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE SIZE	CALIBRATION	CALIBRATION
QUANTITY OR GAUGE	AS APPROPRIATE	AND MEASUREMENT	EQUIPMENT AND
		CAPABILITY EXPRESSED	REFERENCE STANDARDS USED
		AS AN UNCERTAINTY (±)	STANDARDS USED
Gas Flow Ventilation Meter	20 % to 100 % ventilation	1 % of reading	Gas Flow Ventilation
of QTM 17.5 ml/s ^o			Devices Standards
			QTM Manufacture Guide
			ISO 6565
Gas Flow Ventilation Device	100 % of ventilation	0.91 % of reading	Flow Meter, Digitron
17.5 ml/s ^o			Pressure Gauge
			QTM Manufacturer Guide
			ISO 6565
Gas Flow Meter ^{FO}	0.02 L/min to 0.2 L/min	0.91 % of reading	Furness Controls FC0210-
	(20 SCCM to 186 SCCM)		3 Flow Meter
			CENAM Technical Guide
	0.057 71 L/min to 2 L/min	0.06 % of reading	Furness Controls FC0210
	(56.26 SCCM to 1958.25 SCCM)		Flow Meter
		$ \land$	CENAM Technical Guide
	15 L/min to 116 L/min	1.7 % of reading	F&J Specialty Products
	(14.432 SLPM to 111.352 9		D-812B, Flow Meter
	SLPM)		CENAM Technical Guide
	1.026 L/min to 204.26 L/min	0.58 % of reading	MF5712 Flow Meter
	(20 SLPM to 200 SLPM)		CENAM Technical Guide

Thermodynamic

Thermodynamic			
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		AS AN UNCERTAINTY (±)	
Bimetallic Thermometers ^{FO}	-70 °C to 500 °C	0.75 °C	Indicator RTD pt 100
			Standard,
Glass Thermometers ^F	-70 °C to 300 °C	0.76 °C	Dry Ice, Dry Block
			Calibrator
			NOM-CH-070
Thermal Chamber ^O	-70 °C to 300 °C	0.23 °C	Indicator RTD 100
Thermal Oven ^O	50 °C to 500 °C	0.23 °C	TC Standards
Disidel Theory and the	-70 °C to 400 °C	0.48 °C	Dry Ice, Dry Block
Digital Thermometer ^F	-70 °C to 400 °C	0.48 °C	Calibrator Fluke, Hart
			Scientific
			NOM-CH-070
Digital Infrared	50 °C to 500 °C	0.51 °C	Black Body Source
Thermometer ^{FO}			CENAM Technical Guide



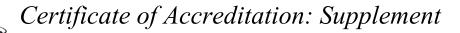
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Thermodynamic	DANCE OD NOMINAL	CALIDDATION	
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Direct Reading Thermometer used Termistor, RTD, Thermocouple ^{FO}	-20 °C to 600 °C	0.25 °C	Reference Temperature Calibrator RTD 100 Ω Dry Block Calibrator NOM-011-SCFI
Temperature Measurement	0 °C to 300 °C	0.53 °C	Fluke 743 with Sensor K
Thermocouple Type J ^{FO}	300 °C to 500 °C	0.91 °C	Dry Well, Fluke 9141 CENAM Technical Guide
Temperature Measurement Thermocouple Type K ^{FO}	0 °C to 300 °C	0.53 °C	Fluke 743 with Sensor RTD Dry Well, Fluke 9141 CENAM Technical Guide
	300 °C to 500 °C	0.91 °C	Fluke 743 with sensor K Dry Well, Fluke 9141 CENAM Technical Guide
Temperature Measurement Thermocouple Type T ^{FO}	0 °C to 300 °C	0.53 °C	Fluke 743 with Sensor RTD Dry Well Fluke 9141 CENAM Technical Guide
	300 °C to 500 °C	0.91 °C	Fluke 743 with Sensor K Dry Well Fluke 9141 CENAM Technical Guide
Temperature Measurement RTD Pt 100 Ω^{FO}	0 °C to 300 °C	0.53 °C	Fluke 743 with sensor RTD Dry Well Fluke 9141 CENAM Technical Guide
	300 °C to 500 °C	0.91 °C	Fluke 743 with Sensor K Dry Well, Fluke 9141 CENAM Technical Guide
Hygro-thermometer Humidity Sensors ^F	20 % RH to 95 % RH	1.3 % RH	Hygrometer Vaisala, Humidity Chamber CENAM Technical Guide
Humidity Generators, Humidity Chamber, Climatic Chamber ^F	20 % RH to 95 % RH	1.4 % RH	Hygrometer Vaisala with Humidity Sensor Dataloggers EURATHERM CENAM Technical Guide SAE/AMS 2750
Equipment to Output Generators, Chambers, Enclosure Sources ^F	11 % RH to 95 % RH	0.8 % RH	Hygrometer Vaisala EURATHERM Technical Guide CENAM Technical Guide
Temperature System Accuracy Test (SAT)	100 °C to 30°C	0.78 °C	Beta PTC-8001, Fluke 702 Fluke 51 series TC Temperature
Furnace, Autoclave, Freezer, and Isothermal Sources with Thermocouple Types K ^F	30 °C to 1 000 °C	0.75 °C	Indicators with Reference Thermocouple wire SAE/AMS 2750

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Thermodynamic MEASURED INSTRUMENT, RANGE OR NOMINAL DEVICE CALIBRATION CALIBRATION QUANTITY OR GAUGE AND MEASUREMENT EQUIPMENT AND REFERENCED SIZE AS APPROPRIATE CAPABILITY EXPRESSED STANDARDS USED AS AN UNCERTAINTY (±) 100 °C to 30 °C Temperature System 0.66 °C Beta PTC-8001, Fluke 702, Accuracy Test (SAT) Fluke 51 series TC Furnace, Autoclave, Freezer, Temperature Indicators with and Isothermal Sources with Reference Thermocouple wire Thermocouple Types J^F SAE/AMS 2750 Temperature System 30 °C to 1 000 °C 0.63 °C Accuracy Test (SAT) Furnace, Autoclave, Freezer, and Isothermal Sources with Thermocouple Types N^F Temperature System -100 °C to 30 °C 0.75 °C Accuracy Test (SAT) 30 °C to 400 °C 0.44 °C Furnace, Autoclave, Freezer, and Isothermal Sources with Thermocouple Types T^F Temperature Uniformity -100 °C to 30 °C HP 34970A Data Acquisition, 0.82 °C Datapaq TC Temperature Surveys (TUS) Furnace, Autoclave, Freezer, 30 °C to 400 °C 0.64 °C Indicator with Reference and Isothermal Sources with Thermocouples wire set Thermocouple Types T^F SAE/AMS 2750E 30 °C to 1 000 °C 0.77 °C NT-04 ENAC Guide Temperature Uniformity Surveys (TUS) Furnace, Autoclave, Freezer, and Isothermal Sources with Thermocouple Types K^F **Temperature Uniformity** -100 °C to 30 °C 0.71 °C Surveys (TUS) Furnace, Autoclave, Freezer, 30 °C to 1 000 °C 0.68 °C and Isothermal Sources with Thermocouple Types J^F Temperature Uniformity 30 °C to 1 000 °C 1.3 °C Surveys (TUS) Furnace, Autoclave, Freezer, and Isothermal Sources with Thermocouple Types NF

Time and Frequency			
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Stopwatch Timer ^{FO}	Up to 86 400 s	1.3 s/day	Stop Watch CENAM Technical Guide

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Equipment to Output Electrical Welding Equipment Power Sources or Generators wire Feed Speed 1.3 m/min to 36.6 m/min (50 rpm to 1 440 rpm) ^o	1.06 rad/s to 29.76 rad/s (10 rpm to 285 rpm)	0.085 rad/s (0.82 rpm)	Photo-Tachometer Ono Sokki Welding Equipment Manufacturer 275053 Guide ANSI/IEC 60974–1 ISO 17662
Equipment to Output Angular Velocity Sources, Stroboscope, Vortex Mixers, Centrifuges, Rotarex ^{FO}	10.471 98 rad/s to 5 235.987 76 rad/s (100 rpm to 50 000 rpm)	0.061 rad/s (0.58 rpm)	Photo- tachometer Ono sokki CENAM Technical Guide
Equipment to Output	3 Hz to 9.999 999 Hz	0.008 2 Hz	Agilent 34401A Multimeter
Frequency 100 mV to 750 V ^{FO}	10 Hz to 99.999 99 Hz	0.012 Hz	CENAM Technical Guide ANSI C39.6
100 mV to 750 V	100 Hz to 999.999 9 Hz	0.59 Hz	ANSI C39.0
	1 kHz to 9.999 999 kHz	0.005 9 kHz	
	10 kHz to 99.999 99 kHz	0.058 kHz	
	100 kHz to 300 kHz	0.067 kHz	
Equipment to Output Frequency 0.005 V to 30 V ^{FO}	10 Hz to 60 MHz	0.014 Hz	Oscilloscope Tektronix TDS 1002B CENAM Technical Guide
Equipment to Measure	0.002 Hz to 11.999 kHz	0.002 Hz	Fluke 5500A
Frequency 1 mV to 3.3 V ^{FO}	12 kHz to 2 MHz	50 Hz	CENAM Technical Guide
Equipment to Measure Angular Velocity Systems, Photo and Contact Tachometer ^{FO}	0.125 7 rad/s to 10 471.98 rad/s (1.2 rpm to 100 000 rpm)	0.000 048 rad/s (0.000 46 rpm)	Fluke 5500A with Infrared Led CENAM Technical Guide
Equipment to Measure	2 Hz to 109.9 Hz	0.059 Hz	Fluke 702 Process Calibrator
Frequency	110 Hz to 1 000 Hz	0.59 Hz	CENAM Technical Guide
0.1 V to 10 V p-p ^{FO}	1.01 kHz to 11 kHz	0.014 Hz	
	11.1 kHz to 50 kHz	0.059 kHz	

Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Light Meters ^F	120 lux to 6 000 lux	1 % of reading	Light Meter Master CENAM Technical Guide

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Certificate of Accreditation: Supplement

Calmet Industrial, S.A. de C.V. 1^{era} Privada No. 4831, Col. Niño Artillero Monterrey, Nuevo León, México. C.P. 64280 Contact Name: Eliud Elizondo Phone: 818-351-0368

Accreditation is granted to the facility to perform the following calibrations:

Optical			
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Refractometers ^F	0.1 °Brix to 20 °Brix	0.13 °Brix	R °Bx Standards Traceable NIST and PTB, Merck Millipore OIML R108
Refractometers ^{FO}	20 °Brix to 90 °Brix	0.15 °Brix	Standard Solutions OIML R-108
Spectral Reflectance 400nm to 700nm Geometry d/8° Specular Component Included SCI (CEI) ^{FO}			White Standard Tile CENAM Technical Guide ASTM D2244, ASTM E-1164
CIE L*:	0 to 100 CIE L*	0.2 CIE L*	ASTM E-1331,
CIE a*	-100 to 100 CIE a*	0.2 CIE a*	ASTM E-1347
CIE b*	-100 to 100 CIE b*	0.15 CIE b*	
Spectral Reflectance 400nm to 700nm Geometry d/8° Specular Component Excluded SCE (CEE) ^{FO}			White Standard Tile CENAM Technical Guide ASTM D2244, ASTM E-1164,
CIE L:	0 to 100 CIE L*	0.2 CIE L*	ASTM E-1331
CIE a* CIE b*	-100 to 100 CIE a*	0.2 CIE a*	ASTM E-1347
	-100 to 100 CIE b*	0.15 CIE b*	
Gloss/Specular Reflectance Meter ^{FO} Angle of Incline: 20°	92.6 Gloss Units	0.23 Gloss Units	BS in ISO 2813 ASTM D-523-14
Angle of Incline: 60°	92.6 Gloss Units	0.19 Gloss Units	1
Angle of Incline: 85°	92.6 Gloss Units	0.25 Gloss Units	

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output	1 mV to 99.99 mV	0.005 % of reading + 0.003 5 mV	Agilent 34401A
DC Voltage ^{FO}	100 mV to 0.99 V	0.004 % of reading + 7 µV	Multimeter CENAM Technical Guide
	1 V to 9.99 V	0.003 5 % of reading + 50 µV	CENAM Technical Guide
	10 V to 99.99 V	0.004 5 % of reading + 0.6 mV	
	100 V to 1 000 V	0.004 5 % of reading + 10 mV	
Equipment to Output AC Voltage At the listed frequencies ^{FO}			
3 Hz to 5 Hz	10 mV to 100 mV	1.1 mV	

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Electrical Measured instrument, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output AC Voltage At the listed frequencies ^{FO}			Agilent 34401A Multimeter CENAM Technical Guide
5 Hz to 10 Hz	10 mV to 100 mV	0.39 mV	
10 Hz to 20 kHz	10 mV to 100 mV	0.1 mV	
20 kHz to 50 kHz	10 mV to 100 mV	0.16 mV	
50 kHz to 100 kHz	10 mV to 100 mV	0.68 mV	
100 kHz to 300 kHz	10 mV to 100 mV	4.5 mV	
Equipment to Output AC Voltage At the listed frequencies ^{FC})		
3 Hz to 5 Hz	100 mV to 1 V	0.011 V	
5 Hz to 10 Hz	100 mV to 1 V	0.003 8 V	
10 Hz to 20 kHz	100 mV to 1 V	0.000 9 V	
20 kHz to 50 kHz	100 mV to 1 V	0.001 6 V	
50 kHz to 100 kHz	100 mV to 1 V	0.006 8 V	
100 kHz to 300 kHz	100 mV to 1 V	0.045 V	
Equipment to Output AC Voltage At the listed frequencies ^{FC}			
3 Hz to 5 Hz	1 V to 750 V	7.8 V	
5 Hz to 10 Hz	1 V to 750 V	2.9 V	
10 Hz to 20 kHz	1 V to 750 V	0.68 V	
20 kHz to 50 kHz	1 V to 750 V	1.2 V	
50 kHz to 100 kHz	1 V to 750 V	5.1 V	
100 kHz to 300 kHz	1 V to 750 V	34 V	
Equipment to Output AC Current At the listed frequencies ^{FC})		
3 Hz to 5 Hz	1 mA to 0.999 99 A	0.011 A	
5 Hz to 10 Hz	1 m A to 0.999 99 A	0.003 4 A	
10 Hz to 5 kHz	1 m A to 0.999 99 A	0.001 4 A	1
Equipment to Output AC Current At the listed frequencies ^{FC})		
3 Hz to 5 Hz	1 A to 3 A	0.035 A	
5 Hz to 10 Hz	1 A to 3 A	0.013 A	

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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output AC Current At the listed frequencies ^{FO}			Agilent 34401A Multimeter CENAM Technical Guide
10 Hz to 5 kHz	1 A to 3 A	0.006 3 A	
Equipment to Output	Up to 100 Ω	16 mΩ	
Resistance ^{FO}	100Ω to $1 000 \Omega$	130 mΩ	
	1 kΩ to 10 kΩ	1.3 Ω	
	10 k Ω to 100 k Ω	13 Ω	
	100 k Ω to 1 M Ω	130 Ω	
	$1 \text{ M}\Omega$ to $10 \text{ M}\Omega$	4.8 Ω/kΩ	
	$10 \text{ M}\Omega$ to $100 \text{ M}\Omega$	0.93 kΩ/MΩ	
Electrical Current Derivator (Shunt) ^F	20 A to 600 A	1 % of reading	Agilent 34401A, Fluke 289, Current Clamp Amp Meter CEM Guide, NIST Guide
Equipment to Measure	1 m Ω to 5 m Ω	58 μΩ/Ω + 5.8 μΩ	Fluke 5500A, Multimeter
Low Resistance	5.001 m Ω to 50m Ω	580 μΩ/Ω + $58 $ μΩ	Agilent 34401A, Fluke 289,
At the listed frequencies 0.01 A to 10 A ^{FO}	50.01 m Ω to 500 m Ω	580 μΩ /Ω + 577 μΩ	Fluke 87 V, CENAM Technical Guide
0.0171101071	0.500 1 Ω to 9.999 9 Ω	$15 \text{ m}\Omega/\Omega + 14.9 \text{ m}\Omega$	
Equipment to Measure High resistance At the listed frequencies 20 V to 100 V ^{FO}	0.6 MΩ to 1 MΩ	0.96 % of reading	GenRad 1433-F High Resistance Standard Decade Box CENAM Technical Guide
Equipment to Output	3 Hz to 5 Hz	0.56 % of reading	Agilent 34401A Multimeter
Resistance	5 Hz to 10 Hz	0.67 % of reading	CENAM Technical Guide
At the listed frequenciess 100 mV to 750 V ^{FO}	10 Hz to 40 Hz	0.9 % of reading	
	40 Hz to 300 kHz	0.9 % of reading	
Equipment to Measure	33 mV to 330 mV	0.002 % of reading + 57 μ V	Fluke 5500A
DC Voltage ^{FO}	0.33 V to 3.3 V	0.001 % of reading + 600 μ V	CENAM Technical Guide
	3.3 V to 33 V	0.001 % of reading + 5.7 mV	
	33 V to 330 V	0.001 % of reading + 56 mV	
	330 V to 1 000 V	0.003 % of reading + 608 mV	
Equipment to Measure	0.33 mA to 3.3 mA	0.47 μΑ	
DC Current ^{FO}	3.3 mA to 33 mA	4.1 μΑ	
	33 mA to 330 mA	42 μΑ	



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Monterrey, Nuevo León, México. C.P. 64280 Contact Name: Eliud Elizondo Phone: 818-351-0368

Accreditation is granted to the facility to perform the following calibrations:

Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure	330 mA to 2.2 A	820 µA	Fluke 5500A
DC Current ^{FO}	2.2 A to 11 A	8 100 μΑ	CENAM Technical Guide
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
10 Hz to 45 Hz	1 mV to 32.999 mV	200 µV	
45 Hz to 10 kHz	1 mV to 32.999 mV	160 μV	
10 kHz to 20 kHz	1 mV to 32.999 mV	170 μV	
20 kHz to 50 kHz	1 mV to 32.999 mV	200 μV	
50 kHz to 100 kHz	1 mV to 32.999 mV	230 µV	
100 kHz to 500 kHz	1 mV to 32.999 mV	460 μV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}		37	Fluke 5500A CENAM Technical Guide
10 Hz to 45 Hz	33 mV to 329.999 mV	960 μV	
45 Hz to 10 kHz	33 mV to 329.999 mV	260 μV	
10 kHz to 20 kHz	33 mV to 329.999 mV	350 μV	
20 kHz to 50 kHz	33 mV to 329.999 mV	680 μV	
50 kHz to 100 kHz	33 mV to 329.999 mV	1 100 μV	
100 kHz to 500 kHz	33 mV to 329.999 mV	2 700 μV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
10 Hz to 45 Hz	0.33 V to 3.299 99 V	10 mV	
45 Hz to 10 kHz	0.33 V to 3.299 99 V	19 mV	
10 kHz to 20 kHz	0.33 V to 3.299 99 V	3 mV	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	10 mV	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	10 mV	
100 kHz to 500 kHz	0.33 V to 3.299 99 V	23 mV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
10 Hz to 45 Hz	3.3 V to 32.999 9 V	60 mV	
45 Hz to 10 kHz	3.3 V to 32.999 9 V	20 mV	
10 kHz to 20 kHz	3.3 V to 32.999 9 V	30 mV	
20 kHz to 50 kHz	3.3 V to 32.999 9 V	80 mV	

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Electrical			
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Equipment to Measure AC Voltage			Fluke 5500A CENAM Technical Guide
At the listed frequencies ^{FO}			
50 kHz to 100 kHz	3.3 V to 32.999 9 V	190 mV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
45 Hz to 1 kHz	33 V to 329.999 V	580 mV	-
1 kHz to 10 kHz	33 V to 329.999 V	300 mV	
10 kHz to 20 kHz	33 V to 329.999 V	2 300 mV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}	55 V 10 529.999 V		
45 Hz to 1 kHz	330 V to 1 000 V	2 200 mV	
1 kHz to 10 kHz	330 V to 1 000 V	2 600 mV	
Equipment to Measure AC Current At the listed frequencies ^{FO}		PXS	
10 Hz to 20 Hz	0.029 mA to 0.329 99 mA	1.5 μΑ	
20 Hz to 45 Hz	0.029 mA to 0.329 99 mA	1.3 μΑ	
45 Hz to 1 kHz	0.029 mA to 0.329 99 mA	1.3 μΑ	
1 kHz to 5 kHz	0.029 mA to 0.329 99 mA	1.9 μΑ	
5 kHz to 10 kHz	0.029 mA to 0.329 99 mA	4.4 μΑ	
Equipment to Measure AC Current At the listed frequencies ^{FO}			
10 Hz to 20 Hz	0.33 mA to 3.299 9 mA	14 μΑ	
20 Hz to 45 Hz	0.33 mA to 3.299 9 mA	12 μΑ	
45 Hz to 1 kHz	0.33 mA to 3.299 9 mA	12 μΑ	
1kHz to 5 kHz	0.33 mA to 3.299 9 mA	14 μΑ	•
5 kHz to 10 kHz	0.33 mA to 3.299 9 mA	23 µA	
Equipment to Measure AC Current At the listed frequencies ^{FO}			
10 Hz to 20 Hz	3.3 mA to 32.999 mA	87 μΑ	
20 Hz to 45 Hz	3.3 mA to 32.999 mA	37 μA	
45 Hz to 1 kHz	3.3 mA to 32.999 mA	35 μΑ	

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Electrical			
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Equipment to Measure			Fluke 5500A
AC Current At the listed frequencies ^{FO}			CENAM Technical Guide
1 kHz to 5 kHz	3.3 mA to 32.999 mA	71 μΑ	-
5 kHz to 10 kHz	3.3 mA to 32.999 mA	210 µA	-
Equipment to Measure	5.5 IIIA (0 52.777 IIIA	210 µA	-
AC Current			
At the listed frequencies ^{FO} 10 Hz to 20 Hz	22	700 4	
	33 mA to 329.99 mA	700 μA	-
20 Hz to 45 Hz	33 mA to 329.99 mA	380 µA	-
45 Hz to 1 kHz	33 mA to 329.99 mA	350 μΑ	-
1 kHz to 5 kHz	33 mA to 329.99 mA	700 μΑ	-
5 kHz to 10 kHz	33 mA to 329.99 mA	2 100 μA	
Equipment to Measure AC Current At the listed frequencies ^{FO}			
10 Hz to 45 Hz	0.33 A to 2.199 99 A	4.8 mA	
45 Hz to 1 kHz	0.33 A to 2.199 99 A	2.6 mA	
Equipment to Measure AC Current At the listed frequencies ^{FO}			
45 Hz to 65 Hz	2.2 A to 11 A	14 mA	
65 Hz to 500 Hz	2.2 A to 11 A	17 mA	
500 Hz to 1 kHz	2.2 A to 11 A	40 mA	
Equipment to Measure	1.1 Ω to 11 Ω	0.011 Ω	
Resistance ^{FO}	11 Ω to 33 Ω	0.025 Ω	
	33 Ω to 110 Ω	0.031 Ω	
	110 Ω to 330 Ω	0.13 Ω	
	0.33 kΩ to 1.1 kΩ	0.18 Ω	
	1.1 k Ω to 3.3 k Ω	0.42 Ω	-
	$3.3 \text{ k}\Omega$ to $11 \text{ k}\Omega$	1.9 Ω	1
	11 kΩ to 33 kΩ	4.2 Ω	1
	33 kΩ to 110 kΩ	21 Ω	1
	110 kΩ to 330 kΩ	53 Ω	1
	$330 \text{ k}\Omega$ to 1.1 M Ω	260 Ω	-



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Equipment to Measure Resistance ^{FO}	1.1 MΩ to 3.3 MΩ	640 Ω	Fluke 5500A
	3.3 MΩ to 11MΩ	8.3 kΩ	CENAM Technical Guide
	11 MΩ to 33 MΩ	39 kΩ	
	$33 \text{ k}\Omega$ to $110 \text{ k}\Omega$	21 Ω	
	110 kΩ to 330 kΩ	53 Ω	
Equipment to Measure	0.33 nF to 0.499 9 nF	0.019 nF	-
Capacitance ^{FO}	0.5 nF to 1.099 9 nF	0.022 nF	
	1.1 nF to 3.299 9 nF	0.032 nF	
	3.3 nF to 10.999 nF	0.075 nF	-
	11 nF to 32.999 nF	0.22 nF	-
	33 nF to 109.99 nF	0.44 nF	-
	110 nF to 329.99 nF	1.5 nF	-
	0.33 μF to 1.099 9 μF	4.4 nF	
	1.1 μF to 3.299 9 μF	17 nF	
	3.3 μF to 10.999 μF	56 nF	
	11 μF to 32.999 μF	190 nF	
	33 µF to 109.99 µF	760 nF	
	110 µF to 329.99 µF	3.1 µF	
	330 μF to 1.1 mF	14 μF	
Equipment to Output	1 kV to 6 Kv	0.6 kV	Multimeter High Voltage
AC Voltage (Hipot) ^{FO}	6 kV to 10 Kv	1 kV	Probe
	10 kV to 25 kV	2.5 kV	CENAM Technical Guide
Equipment to Output	1 kV to 6 kV	0.24 kV	-
DC Voltage (Hipot) ^{FO}	6 kV to 10 kV	0.4 kV	-
	10 kV to 35 kV	1.4 kV	-
Temperature Calibration,	600 °C to 800 °C	0.46 °C	Fluke 5500A Electrical
Indication, and Control	800 °C to 1 000 °C	0.46 °C	Simulation of
Equipment used with Thermocouple Type B ^{FO}	1 000 °C to 1 550 °C	0.33 °C	- Thermocouple Output CENAM Technical Guid
Пенносоцріе Туре Б	1 550 °C to 1 820 °C	0.35 °C	
Temperature Calibration,	0 °C to 150 °C	0.33 °C	1
Indication, and Control	150 °C to 650 °C	0.29 °C	1
Equipment used with Thermocouple Type C ^{FO}	650 °C to 1 000 °C	0.33 °C	1
r nermocoupie Type C ¹⁰	1 000 °C to 1 800 °C	0.52 °C	1
	1 800 °C to 2 316 °C	0.85 °C	-



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Electrical		1	r
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration,	-250 °C to -100 °C	0.52 °C	Electrical Simulation of
Indication, and Control Equipment used with	-100 °C to -25 °C	0.19 °C	Thermocouple Output Fluke 5500A
Thermocouple Type E ^{FO}	-25 °C to 350 °C	0.19 °C	CENAM Technical Guide
	350 °C to 650 °C	0.2 °C	
	650 °C to 1000 °C	0.25 °C	
Temperature Calibration,	-210 °C to -100 °C	0.3 °C	
Indication, and Control	-100 °C to -30 °C	0.3 °C	
Equipment used with Thermocouple Type J ^{FO}	-30 °C to 150 °C	0.19 °C	
	150 °C to 760 °C	0.21 °C	
	760 °C to 1 200 °C	0.26 °C	
Temperature Calibration,	-200 °C to -100 °C	0.36 °C	
Indication, and Control	-100 °C to -25 °C	0.22 °C	
Equipment used with Thermocouple Type K ^{FO}	-25 °C to 120 °C	0.23 °C	
inemiceouple Type II	120 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 372 °C	0.42 °C	
Temperature Calibration,	-200 °C to -100 °C	0.39 °C	
Indication, and Control	-100 °C to 800 °C	0.29 °C	
Equipment used with Thermocouple Type L ^{FO}	800 °C to 900 °C	0.21 °C	
Temperature Calibration,	-200 °C to -100 °C	0.42 °C	
Indication, and Control	-100 °C to -25 °C	0.24 °C	
Equipment used with Thermocouple Type N ^{FO}	-25 °C to 120 °C	0.22 °C	
Thermoeouple Type IV	120 °C to 410 °C	0.22 °C	
	410 °C to 1 300 °C	0.3 °C	
Temperature Calibration,	0 °C to 250 °C	0.58 °C	
Indication, and Control	250 °C to 400 °C	0.58 °C	
Equipment used with Thermocouple Type R ^{FO}	400 °C to 1 000 °C	0.35 °C	
Thermoeouple Type R	1 000 °C to 1 767 °C	0.42 °C	
Temperature Calibration,	0 °C to 250 °C	0.49 °C	
Indication, and Control	250 °C to 1 000 °C	0.38 °C	
Equipment used with Thermocouple Type S ^{FO}	1 000 °C to 1 400 °C	0.39 °C	
inclusion i jpe o	1 400 °C to 1 767 °C	0.48 °C	



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Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration,	-250 °C to -150 °C	0.64 °C	Fluke 5500A
Indication, and Control Equipment used with	-150 °C to 0 °C	0.27 °C	Electrical Simulation of Thermocouple Output
Thermocouple Type T ^{FO}	0 °C to 120 °C	0.19 °C	CENAM Technical Guide
	120 °C to 400 °C	0.19 °C	
Temperature Calibration,	-200 °C to 0 °C	0.57 °C	
Indication, and Control Equipment used with Thermocouple Type U ^{FO}	0 °C to 600 °C	0.3 °C	
Temperature Calibration,	-200 °C to -80 °C	0.05 °C	Fluke 5500A
Indication, and Control Equipment used with RTD	-80 °C to 0 °C	0.05 °C	Electrical Simulation of RTD Output
Pt 385, 100 Ω	0 °C to 100 °C	0.07 °C	CENAM Technical Guide
,	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.1 °C	
	400 °C to 630 °C	0.12 °C	
	630 °C to 800 °C	0.23 °C	
	-200 °C to -80 °C	0.05 °C	<u>)</u>
Temperature Calibration,	-200 °C to -80 °C	0.05 °C	
Indication, and Control Equipment used with RTD	-80 °C to 0 °C	0.05 °C	
Pt 3 926, 100 Ω	0 °C to 100 °C	0.07 °C	
,	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.1 ℃	
	400 °C to 630 °C	0.12 °C	
Temperature Calibration,	-200 °C to -190 °C	0.25 °C	
Indication, and Control Equipment used with RTD	-190 °C to -80 °C	0.04 °C	
Pt 3916, 100 Ω	-80 °C to 0 °C	0.05 °C	
	0 °C to 100 °C	0.06 °C	
	100 °C to 260 °C	0.07 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.09 °C	
	400 °C to 600 °C	0.1 °C	
	600 °C to 630 °C	0.23 °C	



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Accreditation is granted to the facility to perform the following calibrations:

Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration,	-200 °C to -80 °C	0.25 °C	Fluke 5500A
Indication, and Control Equipment used with RTD	-80 °C to 0 °C	0.04 °C	Electrical Simulation of
Pt 385, 100 Ω^{FO}	0 °C to 100 °C	0.06 °C	RTD Output CENAM Technical Guide
1.0000, 100	100 °C to 260 °C	0.07 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.09 °C	
	400 °C to 600 °C	0.1 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD Pt 3 926, 100 Ω^{FO}	-200 °C to -80 °C	0.23 °C	
Temperature Calibration,	-200 °C to -80 °C	0.04 °C	
Indication, and Control Equipment used with RTD	-80 °C to 0 °C	0.05 °C	
Pt 385, 500 Ω^{FO}	0 °C to 100 °C	0.05 °C	
	100 °C to 260 °C	0.06 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.08 °C	
	400 °C to 600 °C	0.09 °C	
	600 °C to 630 °C	0.11 °C	
Temperature Calibration,	-200 °C to -80 °C	0.03 °C	
Indication, and Control Equipment used with RTD	-80 °C to 0 °C	0.03 °C	
Pt 385, 1 000 Ω^{FO}	0 °C to 100 °C	0.04 °C	
	100 °C to 260 °C	0.05 °C	
	260 °C to 300 °C	0.06 °C	
	300 °C to 400 °C	0.07 °C	
	400 °C to 600 °C	0.07 °C	
	600 °C to 630 °C	0.23 °C	
Temperature Calibration,	-80 °C to 0 °C	0.08 °C	
Indication, and Control Equipment used with RTD	0 °C to 100 °C	0.08 °C	
Pt 385, Ni 120, 120 Ω^{FO}	100 °C to 260 °C	0.14 °C	
Temperature Calibration, Indication, and Control Equipment used with RTD CU 427, 10 Ω ^{FO}	-100 °C to 260 °C	0.3 °C	

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Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure	38 MΩ	0.4 % of reading	High Resistance
High Resistance	42 MΩ	0.44 % of reading	CENAM Technical Guide
Fixed Point @ 50 V to 10 kV ^{FO}	100 MΩ	1.1 % of reading	
	1 GΩ	0.019 % of reading	
	10 GΩ	0.26 % of reading	
	100 GΩ	2.1 % of reading	
Porosity Detector ^F	1 kV to 28 kV	0.24 kV	Multimeter High Voltage Probe CENAM Technical Guide
Equipment to Measure Capacitance ^{FO}	10 nF to 1 000 nF	0.088 % of reading	General Radio 1412-BC Decade Box
Equipment to Measure Inductance At the listed frequencies 100 Hz to 1 kHz ^{FO}	1 mH to 10 H	0.15 % of reading	CENAM Technical Guide
Equipment to Measure High Resistance Tester of ESD (Wristrap & Foot Strap) ^{FO}	600 kΩ to 1 MΩ 38 MΩ fixed point	1.5 kΩ	GenRad 1433-F Decade Box, High Resistance Standard Set CENAM Technical Guide ESD Equipment Manufacturing Guide
Equipment to Output Air Ionizer Charger ESD ^F	0.5 kV to 28 kV	0.33 % of output	Multimeter High Voltage Probe
Equipment to Measure ESD Air Ionizer Meters and Sensors ^F	0.5 kV to 28 kV	0.33 % of output	CENAM Technical Guide ESD manufacturer Equipment's Guide
Equipment to Output DC Voltage and DC Current	1 V to 100 V	0.058 V	Multimeter, Current Clamp Amp Meter, Load Bank
of Electrical Welding Equipment Power Sources or Generators ^F	1 A to 750 A	0.064 A	Welding Equipment Manufacturer 275053 Guide ANSI/IEC 60974–1 ISO 17662

Chemical

enemeur			
MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE	CALIBRATION	CALIBRATION
QUANTITY OR GAUGE	SIZE AS APPROPRIATE	AND MEASUREMENT	EQUIPMENT AND REFERENCE
		CAPABILITY EXPRESSED	STANDARDS USED
		AS AN UNCERTAINTY (±)	
pH Meter	4 pH	0.012 pH	pH Buffer Solutions
Fixed point ^{FO}	•	*	CENAM Technical Guide
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Chemical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Meter	7 pH	0.012 pH	pH Buffer Solutions
Fixed point ^{FO}	10 pH	0.012 pH	CENAM Technical Guide
Conductivity Meter ^{FO}	84 μS	0.94 μS	Conductivity Buffer
	1 413 μS	6.5 μS	Solutions
	12 880 μS	6 μS	· CENAM Technical Guide
Viscometers - Kinematic	$120 \text{ mm}^2/\text{s} (\text{cSt})$	$0.34 \text{ mm}^2/\text{s} (\text{cSt})$	Cannon Certified Viscosity
Viscosity (Zhan) $2/3/4$,	$230 \text{ mm}^{2}/\text{s} \text{ (cSt)}$		Reference Standard
Ford 3, 4^{FO}			(C60, C100) 25 °C CENAM Technical Guide
Viscometers - Dynamic	335.3 mPa·s	0.66 mPa·s	Cannon Certified Viscosity
Viscosity ^{FO}	484.7 mPa·s	0.89 mPa·s	Reference Standard
			(S200, RT500) 25 °C
	100 mPa.s	0.95 mPa.s	CENAM Technical Guide Cannon, Brookfield STD
	500 mPa.s	1.8 mPa.s	CENAM Technical Guide
	1 000 mPa.s	3 mPa.s	
	5 000 mPa.s	19 mPa.s	
	12 500 mPa.s	55 mPa.s	
Alcohol Meter ^F	Up to 0.4 BAC	0.012 % BAC	Alcohol Meter Master OIMLR-126
Combustion Analyzer ^F	51 μmol/mol (CO)	1.1 µmol/mol (CO)	PRAXAIR Certified
Explosimeter ^F	100 μmol/mol	0.05 μmol/mol	Standard
Methane			NOM-034-ECOL
Explosimeter ^F	26 µmol/mol	0.05 µmol/mol	
Hydrogen Sulfide Explosimeter ^F	109 μmol/mol	0.05 μmol/mol	
Butane			

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE	CALIBRATION	CALIBRATION
QUANTITY OR GAUGE	SIZE AS APPROPRIATE	AND MEASUREMENT	EQUIPMENT AND
		CAPABILITY EXPRESSED	REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Analytical Balance ^{FO}	1 mg to 210 g	(8 x 10 ⁻⁵ + 6 x 10 ⁻⁷ Wt) g	Weight Class E2
	(Res.=0.01 mg)		CENAM Technical Guide
Scales ^O	5 g to 2 000 g	(7.8 x 10 ⁻³ + 1 x 10 ⁻⁶ Wt) g	Weight Class E2, F1
	(Res.=0.01 g)		CENAM Technical Guide
	200 g to 50 000 g	$(7.73 \text{ x } 10^{-2} + 3 \text{ x } 10^{-6} \text{Wt}) \text{ g}$	Weight Class E2, F1, F2
	(Res.= 0.1 g)		CENAM Technical Guide

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Mass, Force, and Weigh	ning Devices		
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Scales ^O	4 kg to 200 kg	$(3.3 \text{ x } 10^{-3} + 2 \text{ x } 10^{-5} \text{Wt}) \text{ kg}$	Weight Class M1, F1, F2
W. 11 0 1 0	(Res.=0.02 kg)	(0.1.6.) 0. 10.5W().1	CENAM Technical Guide
Weighing Scales, Crane Scale, Dynamic	20 kg to 2 000 kg (Res.= 0.2 kg)	$(0.16 + 3 \text{ x } 10^{-5} \text{Wt}) \text{ kg}$	Weight Class M1, M2 CENAM Technical Guide
Checkweighing Systems ⁰	$(\mathrm{Res.}-0.2~\mathrm{Kg})$		
Weights	1 g	0.33 mg	NOM-EM-020-SE
Class M1, M2, M3 ^F	2 g	0.4 mg	Mass Set Class E2
	5 g	0.53 mg	
	10 g	0.66 mg	
	20 g	0.83 mg	
	50 g	1 mg	
	100 g	1.7 mg	
	200 g	3.4 mg	
Weights Class	1 000 g	17 mg	Mass Set Class F2
M1, M2, M3 ^F	20 000 g	340 mg	NOM-EM-020-SE
	2 000 g	10 mg	
Weights Class	5 000 g	270 mg	Mass Set Class M1
M2, M3 ^F	10 000 g	540 mg	NOM-EM-020-SE
Weights Class F1 ^F	5 mg	0.006 1 mg	Mass Set Class E2
	10 mg	0.006 4 mg	NOM-EM-020-SE
	20 mg	0.008 mg	
	50 mg	0.019 mg	
	100 mg	0.01 mg	
	200 mg	0.018 mg	
	500 mg	0.024 mg	
	1 g	0.024 mg	
	2 g	0.022 mg	
	5 g	0.022 mg	
	10 g	0.021 mg	
	20 g	0.05 mg	
	50 g	0.074 mg	
	100 g	0.29 mg	
	200 g	0.28 mg	
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Mass, Force, and Weighing Devices

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Mass, Force, and Weighing Devices

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Force Machines	44 N to 444 N	0.21 % of reading	Load Cells Strainsense
Compression and Tension ^{FO}	44 N to 4.44 kN	0.5 % of reading	SST104ULP, BLH Electronics 82060, 59676
	4.44 kN to 44.48 kN	0.6 % of reading	Laumas CLS- 5t, CLS-1t
	44.48 kN to 444.82 kN	0.3 % of reading	NMX-CH-7500-1 IMNC
Force Machines Tension ^{FO}	0.009 8 N to 1.96 N	0.001 N	Class F1, F2 y M1 Weight
	1.97 N to 9.8 N	0.007 N	ISO-7500-1, ASTM E4 NMX-CH-7500-1-IMNC
	9.81 N to 588 N	0.012 N	INIVIA-CH-/300-1-IIVINC
Force Measuring Systems, Gauges and Devices Compression and Tension ^{FO}	0.8 895 N to 980.665 N	0.006 3 % of reading	F1, F2, M1 Weight Set ISO 376, ISO-7500-1 ASTM E4 NMX-CH-7500-1-IMNC
Force Load Cells Tension ^{FO}	22.24 N to 490.33 kN	0.17 % of reading	Standard Load Cells
Force Load Cells Compression ^{FO}	22.24 N to 98.0665 kN	0.17 % of reading	ISO 376

Acoustic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Acoustical Meter ^{FO}	94 dB	0.27 dB	Acoustical Calibrator
	114 dB	0.27 dB	UNE-EN 61672-2014

- 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.
- 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. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.

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- 4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
- 5. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
- 6. 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.
- 7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

