



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Asesoría Industrial en Mantenimiento y Calibración TLX.
(AIMEC) / Ignacio Grande Morales***
Calle Adolfo López Mateos # 1-A, Col. Ocotlán
Tlaxcala, Tlaxcala, México. C.P. 90100

*(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):

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

Initial Accreditation Date:

April 12, 2013

Issue Date:

April 16, 2023

Expiration Date:

June 30, 2025

Tracy Szerszen
President

Accreditation No.:

75284

Certificate No.:

L23-308

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a
continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjllabs.com*



Certificate of Accreditation: Supplement

Asesoría Industrial en Mantenimiento y Calibración TLX. (AIMEC) / Ignacio Grande Morales

Calle Adolfo López Mateos # 1-A, Col. Ocotlán
Tlaxcala, Tlaxcala, México. C.P. 90100

Contact Name: Ignacio Grande Morales Phone: (52) 246-462-3510

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

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Liquids in Glass Thermometers ^{FO}	0 °C to 250 °C	0.24 °C	A Stirred Liquid Bath Thermometer Digital Luff C110 Thermometer Digital AΣA T100-250, ITS-90
	-10 °C to 250 °C	0.12 °C	A Stirred Liquid Bath Thermometer Digital AΣA T100-250 ITS-90 CENAM Technical Guide
Industrial Thermometer - Indicator and Sensor RTD Pt 385, 100 ^{FO}	-5 °C to 250 °C	0.29 °C	Dry Well AΣA B125X
	200 °C to 250 °C	0.36 °C	Dry Well Ametek ETC 400A / Thermometer Digital AΣA CENAM Technical Guide ITS-90
Industrial Thermometer – Indicator and Thermocouple Type J ^{FO}	0 °C to 400 °C	0.33 °C	Dry Well AΣA B125X
	400 °C to 700 °C	0.54 °C	Dry Well Ametek ETC 400A / Process Calibrator 701 / 725
Industrial Thermometer Indicator and Thermocouple Type K ^{FO}	0 °C to 300 °C	0.41 °C	Muffle Controller Eurotherm 3216i CENAM Technical Guide ITS-90
	300 °C to 700 °C	0.58 °C	
	700 °C to 1 200 °C	0.58 °C	
Industrial Thermometer Indicator and Thermocouple Type T ^{FO}	0 °C to 400 °C	0.68 °C	
Bi-Metal Thermometers ^{FO}	-5 °C to 250 °C	0.35 °C	Dry Well AΣA B125X
	200 °C to 250 °C	0.46 °C	A Stirred Liquid Bath Thermometer Digital Luff C110 CENAM Technical Guide NMX-CH-140-IMNC ITS-90
Hygrometers ^F	10 % RH to 90 % RH	1.2 % RH	Capacitance Hygrometers Vaisala MI70 Delta Ohm HD11 Standard Salts Cal, Kit Extech Rh300 Standard Salts Cal, Humidity Chamber ASTM 104-85



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

Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Balance ^o	1 g to 200 g (Res.= 0.2 mg)	0.63 mg	OIML R-76 Mass weights Class F1
	1 g to 10 g (Res.= 0.1 mg)	0.36 mg	
	1 g to 100 g (Res.= 0.2 mg)	0.73 mg	
	1 g to 500 g (Res.= 0.5 mg)	1.8 mg	
	1 g to 1 000 g (Res.= 2 mg)	5.2 mg	
	1 g to 2 000 g (Res.= 5 mg)	12 mg	
	1 g to 5 000 g (Res.= 10 mg)	26 mg	
	1 000 g to 20 000 g (Res.= 500 mg)	0.12 g	
	200 g to 1 000 g (Res.= 2 mg)	5.2 mg	
	1 000 g to 10 000 g (Res.= 0.1 mg)	52 mg	
Scales ^o	5 kg to 150 kg (Res.= 5 g)	5.3 g	OIML R-76 Mass weights Class M1
	5 kg to 200 kg (Res.= 10 g)	16 g	
	5 kg to 500 Kg (Res.= 20 g)	22 g	
	5 kg to 1 000 Kg (Res.= 50 g)	80 g	
	200 kg to 1 000 Kg (Res.= 50 g)	70 g	
Dynamometer, Universal Machine ^o	20 N to 200 N (Res.= 0.02 N)	0.2 % of reading	Load Cells Omega Dyne Inc. Mod: LC-101-25 Mass F1 NMX-CH-7500-1-IMNC
	200 N to 2 000 N (Res.= 0.1 N)	0.2 % of reading	Load Cells Cell: H3G 500 kg
	2 000 N to 10 000 N (Res.= 10 N)	0.5 % of reading	Brand: Imada Model: DPZS Cells: H3G 1 000 kg NMX-CH-7500-1-IMNC



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Dynamometer, Universal Machine ^o	0.2 N to 10 N	0.2 % of reading	Mass F1 NMX-CH-7500-1-IMNC CENAM Technical Guide
	9.8 N to 98.1 N	0.3 % of reading	
	49 N to 5 000 N	0.4 % of reading	Mass M1 Load Cells Model: H3G 500 kg Indicator Brand: Radwag Model: PUE C731 NMX-CH-7500-1-IMNC CENAM Technical Guide
Weights F1, F2, M1 ^F	2 mg	0.006 6 mg	OIML R 111 Class E2 Mass Weights NOM-038-SCFI
	10 mg	0.008 3 mg	
	20 mg	0.01 mg	
	50 mg	0.013 mg	
	100 mg	0.016 mg	
	200 mg	0.02 mg	
	500 mg	0.026 mg	
Weights F1, F2, M1 ^F	1 g	0.033 mg	OIML R 111 Class F1 Mass Weights NOM-038-SCFI
	2 g	0.04 mg	
	5 g	0.053 mg	
	10 g	0.066 mg	
	20 g	0.083 mg	
	50 g	0.1 mg	
	100 g	0.16 mg	
	200 g	0.33 mg	
	500 g	0.83 mg	
	1 000 g	1.6 mg	
Weights F2, M1 ^F	2 kg	10 mg	OIML R 111 Class F1 Mass Weights NOM-038-SCFI
	5 kg	27 mg	
	10 kg	54 mg	
	20 kg	100 mg	



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

Mechanical

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Pressures Gauges ^O	3 435.86 kPa to 34 374.87 kPa	0.3 % of reading	Fluke700P30 / Fluke 701 CENAM Technical Guide NMX-CH-013-SCFI
	688.79 kPa to 6 894.07 kPa	4.9 kPa	Pressure Gage Veris CENAM Technical Guide NMX-CH-013-SCFI
	206.84 kPa to 2 068.84 KPa	0.3 % of reading	Crystal XP2i CENAM Technical Guide NMX-CH-013-SCFI
	20.68 kPa to 206.84 KPa	0.4 % of reading	Fluke700P05 / Fluke 701 CENAM Technical Guide NMX-CH-013-SCFI
Vacuum Meters (Manovacuum Meters)	76.2 mmHg to 762 mmHg	0.6 % of reading	CENAM Technical Guide NMX-CH-013-SCFI
	-68.95 KPa to -6.89 kPa	0.6 % of reading	Crystal XP2i CENAM Technical Guide NMX-CH-013-SCFI
Piston-Operated Pipettes and Dispensers Micropipettes ^F	10 μ L to 1 000 μ L	0.4 % of reading	Analytical Balance Sartorius (Res.= 0.1 mg) Thermometer Fluke 51 II
Volumetric Instruments (Pipettes, Burettes) ^F	0.1 mL to 10 mL	0.3 % of reading	ISO 4787
	10 mL to 100 mL	0.3 % of reading	NMX-CH-20461
Volumetric Instruments (Volumetric Flasks, Graduated Cylinders) ^F	1 mL to 100 mL	0.3 % of reading	Analytical Balance Sartorius (Res.= 0.1 mg)
	100 mL to 5 000 mL	0.7 % of reading	Analytical Balance and (Res.= 1 mg) Analytical Balance Shimadzu (Res.= 0.01 g) ISO 4787 Thermometer Fluke 51 II NMX-CH-20461
Volumetric Measurement (Metallic Graduated Neck for Liquids) ^F	1 000 mL to 20 000 mL	0.7 % of reading	Balance Radwag Balance Shimadzu (Res.= 0.1 mg) ISO 4787 Thermometer Fluke 51 II NOM-042-SCFI



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Security Valves Relief Point ^{FO}	3 psi to 300 psi	0.28 psi	Digital Pressure Gage Crystal XP2i NOM-093-SCFI
Torsional Torque Tools Clockwise and Counterclockwise ^F	0.2 N·m to 1.9 N·m	0.003 N·m	Transducer Torque Mountz 0500 / NMX-CH-6789-IMNC
	10 N·m to 50 N·m	0.18 N·m	Torque Tools: Tohnichi CEM50N3X12D-G / NMX- CH-6789-IMNC
	30 N·m to 150 N·m	0.6 N·m	Transducer Torque NMX-CH-6789-IMNC
	135 N·m to 1 100 N·m	2.2 N·m	Transducer Torque Mountz BTSX1000F / NMX-CH-6789-IMNC

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration Indication and Control Equipment used with Thermocouple Type J ^O	-200 °C to 0 °C	0.46 °C	Calibrator 701 / 725 Electrical Simulation of Thermocouple Output CENAM Technical Guide
	0 °C to 800 °C	0.43 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K ^O	-200 °C to 0 °C	0.58 °C	Calibrator 701 / 725 Electrical Simulation of RTD Output Process CENAM Technical Guide
	0 °C to 1 200 °C	0.48 °C	
Temperature Calibration Indication and Control Equipment used with RTD Type Pt 385 Ω ^O	1 °C to 300 °C	0.62 °C	Digital Multimeter Keysight 34401A / CENAM Technical Guide
	300 °C to 700 °C	0.72 °C	
Equipment to Measure DC Voltage ^F	1 mV to 100 mV	0.16 % of reading	
	0.2 V to 1 V	0.003 % of reading	
	2 V to 10 V	0.002 6 % of reading	
	20 V to 100 V	0.002 6 % of reading	
	200 V to 1 000 V	0.004 6 % of reading	



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Equipment to Measure AC Voltage At the listed frequencies ^F 50 Hz to 10 kHz	5 mV to 100 mV	0.14 % of reading	Digital Multimeter Keysight 34401A / CENAM Technical Guide
Equipment to Measure AC Voltage At the listed frequencies ^F 50 Hz to 1 kHz	0.2 V to 1 V	0.044 % of reading	
	2 V to 10 V	0.08 % of reading	
	20 V to 100 V	0.06 % of reading	
	200 V to 700 V	0.08 % of reading	
Equipment to Measure Resistance ^F	1 Ω to 100 Ω	0.044 % of reading	
	0.2 k Ω to 1 k Ω	0.005 6 % of reading	
	2 k Ω to 10 k Ω	0.003 % of reading	
	20 k Ω to 100 k Ω	0.003 7 % of reading	
	0.2 M Ω to 1 M Ω	0.011 % of reading	
	2 M Ω to 10 M Ω	0.044 % of reading	
Equipment to Measure DC Current ^F	1 mA to 10 mA	0.011 % of reading	
	20 mA to 100 mA	0.032 % of reading	
	1 A to 2.7 A	0.42 % of reading	
Equipment to Measure AC current At the listed frequencies ^F 50 Hz to 1 kHz	0.2 A to 2.7 A	0.03 % of reading	
Equipment to Output Resistance ^F	2 k Ω to 100 k Ω	0.0037 % of reading	
	0.2 M Ω to 1 M Ω	0.044 % of reading	
	20 M Ω to 100 M Ω	0.24 % of reading	
Equipment to Output DC Voltage ^F	1 V to 20 V	0.24 % of reading	Digital multimeter Keysight 34401A, Power Supply Keysight E3644A / CENAM Technical Guide
	10 V to 1 000 V	0.26 % of reading	
Equipment to output AC Voltage At the listed frequencies ^F 50 Hz to 10 kHz	1 V to 20 V	0.24 % of reading	Digital multimeter Keysight 34401A, Power Supply Keysight E3644A, Function Generator Hewlett Packard 33120A / CENAM Technical Guide



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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 (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output AC Voltage At the listed frequencies ^F 50 Hz to 1 kHz	10 V to 700 V	0.26 % of reading	Digital Multimeter Keysight 34401A, Power Supply Keysight E3644A, Function Generator Hewlett Packard 33120A CENAM Technical Guide
Equipment to Output Resistance ^F	80 Ω to 360 Ω	0.044 % of reading	Digital Multimeter Keysight 34401A, Process Calibrator Beamex MC2 CENAM Technical Guide
	1 k Ω to 4 k Ω	0.005 6 % of reading	
Equipment to Output DC Voltage ^F	0.05 V to 0.23 V	0.16 % of reading	Process Calibrator Beamex MC2 CENAM Technical Guide
	2.6 V to 10.8 V	0.003 % of reading	
Equipment to Output DC Current ^F	4 mA to 25 mA	0.014 % of reading	Digital Multimeter Keysight 34401A, Process Calibrator Beamex MC2 CENAM Technical Guide
	0.5 A to 4 A	0.26 % of reading	Digital Multimeter Keysight 34401A, Power supply Keysight E3644A CENAM Technical Guide
	2 A to 30 A	0.42 % of reading	Digital Multimeter Keysight 34401A, Power supply Keysight E3644A, Function Generator Hewlett Packard 33120A CENAM Technical Guide
Equipment to Measure DC Current ^F	1 A to 18 A	0.024 % of reading	Multimeter Fluke 287 CENAM Technical Guide
Equipment to Measure AC Current At the listed frequencies ^F 50 Hz to 1 kHz	1 A to 9 A	0.42 % of reading	
Equipment to Output AC Current At the listed frequencies ^F 50 Hz to 1 kHz	2 A to 700 A	0.45 % of reading	EDC 520A Current Voltage Calibrator & Transconductance Amplifier Fluke 5220A & Function Generator Hewlett Packard 33120A CENAM Technical Guide



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Dimensional

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Caliper ^F	2.5 mm to 450 mm	$(10.1 + 9 \times 10^{-3}L) \mu\text{m}$	Master Block Grade "1" NMX-CH-002-IMNC
Micrometer ^F	2.5 mm to 300 mm	$(0.9 + 6 \times 10^{-3}L) \mu\text{m}$	Master Block Grade "1" NMX-CH-099-IMNC
Height Gauges ^F	0.1 mm to 600 mm	$(8.1 + 8 \times 10^{-4}8L) \mu\text{m}$	Gauge and Vision Master Block Grade "1" NMX-CH-141-IMNC
Indicator ^F	0.1 mm to 50 mm	$(0.75 + 1.8 \times 10^{-3}L) \mu\text{m}$	Master Block Grade "1" NMX-CH-463-IMNC
Graduate Ruler ^F	5 mm to 3 000 mm	$(123 + 0.2L) \mu\text{m}$	Gauge and Vision
Measurement Tape ^F	5 mm to 20 000 mm	$(254.7 + 0.2L) \mu\text{m}$	NMX-CH-148-IMNC

Time and Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Tachometers Meters ^{FO}	90 000 r/min	0.2 r/min	Digital Tachometer Amprobe Tach 200.1 r/min CENAM Technical guide

Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Meters ^O	4 pH	0.02 pH	pH buffer Solutions: NMX-CH-166-IMNC CENAM Technical Guide
	7 pH	0.02 pH	
	10 pH	0.02 pH	
Conductivity Meters ^O	1 413 $\mu\text{S/cm}$	17 $\mu\text{S/cm}$	Conductivity Solutions Hanna CENAM Technical Guide

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. 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.
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.