



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Métrica Monterrey S.A de C.V.
Valle de Juarez # 506, Col. Valle Hermoso 2do. Sector
Guadalupe Nuevo León, México. C.P. 67160

(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, Time and Frequency, Thermodynamic, Mechanical, Electrical, Chemical, Acoustic and Mass, Force and Weighting Devices 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

Initial Accreditation Date:

October 21, 2016

Issue Date:

January 16, 2023

Expiration Date:

February 28, 2025

Revision Date:

January 04, 2024

Accreditation No.:

92325

Certificate No.:

L23-29-R1

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

Métrica Monterrey S.A de C.V.

Valle de Juarez # 506 Col. Valle Hermoso 2do. Sector
 Guadalupe, Nuevo León, México. C.P. 67160
 Contact Name: Sandra Herrera Phone: 812-230-5878

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Optical Comparator Length X and Y Axis ^O	5 mm to 200 mm	$(0.77 + 1.9 \times 10^{-4}L) \mu\text{m}$	Glass Scales Mitutoyo	JIS B 7184
Optical Comparator Magnification ^O	10X 50X	1 % 1 %		
Optical Comparator Angularity ^O	0° to 360°	0.1°	Angle Block	
Optical Comparator Squareness X and Y Axis ^O	90°	0.12°	Square	
Outside Micrometers Length ^{FO}	1.5 mm to 50.8 mm	$(0.8 + 0.001L) \mu\text{m}$	Gage Block Grade 1	JIS B 7502
Calipers	25.4 mm to 304.8 mm	$(6.3 + 1 \times 10^{-4}L) \mu\text{m}$	Caliper Checker Mitutoyo	ISO13385-1
Height Gage ^{FO}	25.4 mm to 304.8 mm	$(9.41 + 4 \times 10^{-5}L) \mu\text{m}$	Caliper Checker Mitutoyo	ISO 13225
Displacement Indicators ^{FO}	1 mm to 25.4 mm	$(8.3 + 2 \times 10^{-4}L) \mu\text{m}$	Indicator Calibrator	JIS B7503
Pin Gages ^F	0.25 mm to 50.8 mm	$(4 \times 10^{-4} + 1 \times 10^{-3}L) \mu\text{m}$	Laser Scan Micrometer	ISO 1938-1
Surface Plates ^O (Repeat Measurement)	0.002 mm [(160 x 100 to 2 500 x 1 600)] mm]	1.3 μm	Repeat-O-Meter	ISO 8512-2
Metals Rules / Tapes ^F	1 mm to 3 000 mm	$(128.3 + 5 \times 10^{-3}L) \mu\text{m}$	Glass Scale Mitutoyo Magnifying Glass 10X Mitutoyo	JIS B 7516, JIS B 7512

Time and Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Stopwatch and Timers ^{FO}	1 s to 3 600 s	$(0.63 + 8 \times 10^{-5}s) \text{ s/h}$	Stopwatch	NIST 960-12 Guide
Equipment to Output Frequency ^{FO}	10 Hz to 10 MHz	$(3 \times 10^{-3} + 1 \times 10^{-5}F) \text{ Hz}$	Universal Counter BK	CENAM Technical Guide
	10 MHz to 500 MHz	$(1.8 + 2.3 \mu\text{H/Hz}) \text{ Hz}$		
	0.5 GHz to 2.7 GHz	$(32 + 2.3 \mu\text{H/Hz}) \text{ Hz}$		



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Time and Frequency

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Equipment to Measure Frequency ^{FO}	1 Hz to 1 000 Hz	$(2.3 \times 10^{-8} + 5.8 \times 10^{-5}F)$ Hz	Signal Generator Agilent	CENAM Technical Guide
	1 kHz to 250 kHz	$(0.13 + 5.8 \times 10^{-5}F)$ Hz		
	0.25 MHz to 1 000 MHz	$(296 + 1 \mu\text{H}/\text{Hz})$ Hz		

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Temperature Contact Thermometer ^{FO}	-50 °C to 400 °C	0.6 °C	Dry-Well Block, Temperature Calibrator & Bath	CEM-TH-001
Temperature Measure Equipment ^F	20 °C to 50 °C	0.3 °C	Rotronic HP32	CEM-TH-007
Humidity Measure Equipment @ 30 °C ^F	20 % RH to 80 % RH	1 % RH		
Infrared Thermometer Equipment to Measure ^F	30 °C to 400 °C	$(0.2 + 1 \times 10^{-5}T)$ °C	Blackbody Calibrator Omega BB703	CENAM Technical Guide

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Gauge ^{FO}	-12 psi to 1 psi	$(0.1 + 4.5 \times 10^{-4}P)$ psi	Crystal Pressure Gauge	ASME B40.100
	1 psi to 20 psi	$(0.1 + 6.1 \times 10^{-4}P)$ psi		
	20 psi to 100 psi	$(0.1 + 7.1 \times 10^{-4}P)$ psi		
	100 psi to 1 000 psi	$(0.13 + 5 \times 10^{-5}P)$ psi		
	1 000 psi to 5 000 psi	$(0.01 + 1.2 \times 10^{-3}P)$ psi		
Torque Wrench ^F	10 lbf.in to 100 lbf.in	0.075 % of reading	Torque Analyzer Mountz and Torque Sensor Mountz MEP-013	ISO 6789-2
	50 lbf.in to 500 lbf.in	0.35 lbf.in + 0.005 2 % of reading	Torque Analyzer Mountz and Torque Sensor Mountz MEP-123	ISO 6789-2
	100 lbf.ft to 1 000 lbf.ft	1.5 lbf.ft + 0.46 % of reading	Torque Analyzer Mountz and Torque Sensor Mountz MEP-122	



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Mechanical

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Universal Machine ^o	20 lbf to 2 000 lbf	1.2 lbf + 0.22 % of reading	Load Cell Omega	ISO 7500-1
	2 000 lbf to 20 000 lbf	0.2 lbf + 0.3 % of reading		
Indirect Verification of Rockwell Hardness Tester HRB ^o	2 000 lbf to 20 000 lbf	0.2 lbf + 0.3 % of reading	Hardness Standard Test Block Sun-Tec	ISO 6508-2
	60 HRB to 79 HRB	0.69 HRB		
	80 HRB to 100 HRB	0.6 HRB		
Indirect Verification of Rockwell Hardness Tester HRC ^o	20 HRC to 30 HRC	0.44 HRC	Hardness Standard Test Block Sun-Tec	
	35 HRC to 55 HRC	0.43 HRC		
	60 HRC to 65 HRC	0.37 HRC		

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Measure DC Voltage ^{FO}	Up to 1 000 V	0.044 mV/V + 0.02 mV	Keithley 2015	CENAM Technical Guide
Equipment to Measure DC Current ^{FO}	Up to 3 A	1.5 mA/A + 0.001 4 mA	Keithley 2015 Fluke 289	
	3 A to 10 A	0.45 mA/A + 4.9 mA		
Equipment to Measure High AC Voltage ^{FO}	1 kV to 28 kV	0.24 V/kV + 10 V	High Voltage Probe Fluke 80K-40 Fluke 289	
Equipment to Measure High DC Voltage ^{FO}	1 kV to 40 kV	0.1 V/kV + 10 V		
Equipment to Measure High AC Current At the listed frequencies ^{FO}			Fluke 355	
50 Hz to 100 Hz	4 A to 1 260 A	0.01 A/A + 0.6 A		
Equipment to Measure High DC Current ^{FO}	4 A to 1 500 A	0.01 A/A + 0.6 A		
Equipment to Measure AC Voltage @ 60 Hz ^{FO}	0.1 V to 750 V	1.1 mV/V + 0.005 mV	Keithley 2015	
Equipment to Measure AC Voltage @ 1 kHz ^{FO}	0.1 V to 750	1.1 mV/V + 0.007 mV		
Equipment to Measure AC Current At the listed frequencies ^{FO}			Keithley 2015 Fluke 289	CENAM Technical Guide
10 Hz to 3 000 Hz	Up to 3 A	2.4 mA/A + 0.37 mA		
45 Hz to 1 000 Hz	3 A to 10 A	9.2 mA/A + 6.2 mA		



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Equipment to Measure Resistance ^{FO}	Up to 100 Ω	0.005 5 m Ω / Ω + 7.2 m Ω	Keithley 2015 CEM EL-025	CENAM Technical Guide
	0.1 Ω to 10 k Ω	0.18 Ω /k Ω + 0.001 8 Ω		
	10 k Ω to 100 k Ω	0.019 Ω /k Ω		
	100 k Ω to 1 000 k Ω	0.13 Ω /k Ω + 0.07 Ω		
	1 M Ω to 10 M Ω	0.8 k Ω /M Ω + 0.5k Ω		
	10 M Ω to 100 M Ω	0.004 2 M Ω /M Ω		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E ^{FO}	-200 °C to 1 000 °C	0.3 °C	Transmille 1 000A Electrical Simulation of Thermocouple Output	Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J ^{FO}	-200 °C to 1 200 °C	0.3 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K ^{FO}	-200 °C to 1 300 °C	0.3 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R ^{FO}	-50 °C to 1 750 °C	0.3 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S ^{FO}	-50 °C to 1 750 °C	0.3 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T ^{FO}	-200 °C to 400	0.3 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type RTD Type Pt 385, 100 Ω ^{FO}	-200 °C to 800 °C	0.41 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type RTD Type Pt 385, 200 Ω ^{FO}	-200 °C to 630 °C	0.42 °C		



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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type RTD Type Pt 385, 500 Ω^{FO}	-200 °C to 630 °C	0.4 °C	Fluke 724 Electrical Simulation of RTD Output	Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type RTD Type Pt 385, 1 000 Ω^{FO}	-200 °C to 630 °C	0.27 °C		
Equipment to Measure High Resistance ^{FO}	0.001 M Ω to 100 M Ω	0.009 1 M Ω /M Ω	High Resistance Decade Substitute RDS77-A	NMX-CH131-2
	100 Ω to 1 000 Ω	0.002 9 Ω / Ω + 0.04 Ω		
Equipment to Measure DC Voltage ^{FO}	30 to 329.9 mV	0.007 4 % of reading + 2.5 mV	Fluke 5500A Multi-product Calibrator and Coil	CENAM Technical Guide
	0.329 V to 3.299 9 V	0.007 7 % of reading + 5.1 μ V		
	1 V to 32.999 V	0.005 5 % of reading + 62 μ V		
	30 V to 329.999 9 V	0.006 4 % of reading + 0.59 mV		
	100 V to 1 000 V	0.006 6 % of reading + 1.8 mV		
Equipment to Measure DC Current ^{FO}	1 mA to 329.999 mA	0.019 % of reading + 30 μ A		
	0.329 A to 2.19 A	0.039 % of reading + 33 μ A		
	1 A to 10 A	0.074 % of reading + 3.3 μ A		
	10 A to 1 500 A	0.009 9 % of reading + 68 mA		
Equipment to Measure AC Voltage ^{FO} At the listed Frequencies 50 Hz to 1 000 Hz	1 V to 32.9 V	0.19 % reading + 0.13 mV		
	33 V to 329.9 V	0.042 % reading + 99 mV		
	330 V to 1 000 V	0.08 % reading + 98 mV		
Equipment to Measure AC Current ^{FO} At the listed Frequencies 50 Hz to 1 000 Hz	1 mA to 329.999 mA	0.014 % reading + 14 μ A		
	0.329 A to 2.19 A	0.16 % reading + 79 μ A		
	1 A to 10 A	0.094 % reading + 0.57 mA		
	10 A to 1 500 A	0.014 % reading + 21 mA		
Equipment to Measure Resistance ^{FO}	1 Ω to 32.999 Ω	1.4 % of reading + 3.1 m Ω		
	33 Ω to 329.999 Ω	0.01 % of reading + 18 m Ω		
	0.33 k Ω to 32.99 99 k Ω	0.012 % of reading + 63 m Ω		
	33 k Ω to 329.999 k Ω	0.014 % of reading + 6.8 Ω		
	0.33 M Ω to 3.299 99 M Ω	0.24 % of reading + 0.66 k Ω		



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Electrical

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Equipment to Measure Resistance ^{FO}	3.3 M Ω to 32.9 M Ω	0.005 % of reading + 0.21 M Ω	Fluke 5500A Multi-product Calibrator	CENAM Technical Guide
	33 M Ω to 100 M Ω	0.86 % of reading + 0.073 M Ω		
DC Power Meter ^{FO} (33 mV to 1 020 V)	0.1 W to 9.2 W	0.25 % of reading + 28 mW		
	9.2 W to 34 W	0.005 9 % of reading + 50 mW		
	34 W to 92 W	0.097 % of reading + 48 mW		
	92 W to 337 W	0.051 % of reading + 0.09 W		
	337 W to 918 W	0.000 48 % of reading + 0.26 W		
	0.92 kW to 2.2 kW	0.031 % of reading + 0.022 W		
	2.2 kW to 4.6 kW	0.012 % of reading + 0.38 W		
	4.6 kW to 11.2 kW	0.008 5 % of reading + 0.54 W		
AC Power Meter ^{FO} (33 mV to 1020 V) @ (50 Hz to 1 000 Hz)	0.1 W to 9.2 W	0.91 % of reading + 59 mW		
	9.2 W to 34 W	0.14 % of reading + 0.15 W		
	34 W to 92 W	0.19 % of reading + 0.13 W		
	92 W to 337 W	0.16 % of reading + 0.16 W		
	337 W to 918 W	0.068 % of reading + 0.47 W		
	0.92 kW to 2.2 kW	0.042 % of reading + 0.74 W		
	2.2 kW to 4.6 kW	0.026 % of reading + 1.1 W		
	4.6 kW to 11.2 kW	0.031 % of reading + 0.81 W		
Teslameter / Gauss Meter ^F	0.017 T to 1.2 T 170 G to 12 000 G	0.9 mT 9 G	Gauss Meter Direct Comparison	

Chemical

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pH Meter (Fixed points) ^{FO}	4 pH	0.021 pH	pH Buffer Standards	CENAM Technical Guide
	7 pH	0.021 pH		
	10 pH	0.025 pH		
Conductivity Meter ^{FO}	1 413 μ S/cm	1.7 μ S/cm	Conductivity Buffer Standards	
	100 μ S/cm	0.3 μ S/cm		



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Acoustic

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Sound Level Meter ^{FO}	94 dB to 114 dB	0.6 dB	Amprobe Calibrator SM-CAL-1	IEC 61672-2-2017

Mass, Force and Weighting Devices

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Analytical Balances ^O	1 g to 300 g (Res. 0.001 g)	$(8.5 \times 10^{-3} + 1.14 \times 10^{-7}Wt)$ g	Mass Class F1	OIML R76-1 Euramet cg-18
Balances ^O	1 g to 1 000 g (Res.= 0.01 g)	$(1.57 \times 10^{-2} + 3.62 \times 10^{-7}Wt)$ g	Mass Class F1	OIML R76-1
Scales ^O	1 000 g to 3 000 g (Res.= 0.1 g)	$(1 + 0.001Wt)$ g	Mass Class M1, F1	
	1 kg to 30 kg (Res.= 0.01 kg)	$(1.56 \times 10^{-2} + 7.3 \times 10^{-5}Wt)$ kg	Mass Class M1	OIML R76-1 Euramet cg-18
	30 kg to 300 kg (Res.= 0.1 kg)	$(1.54 \times 10^{-2} + 7.8 \times 10^{-5}Wt)$ kg		
	50 kg to 500 kg (Res.= 0.1 kg)	$(1.56 \times 10^{-1} + 2.01 \times 10^{-6}Wt)$ kg	Mass Class M1	OIML R76-1 Euramet cg-18
	500 kg to 5 000 kg (Res.= 0.5 kg)	$(7.79 \times 10^{-1} + 3.02 \times 10^{-6}Wt)$ kg	Mass Class M1 Load substitution	

- 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.
- 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.
- The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.
- The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.



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5. 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.
6. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
7. The term P represents pressure in units appropriate to the uncertainty statement.
8. The term T represents temperature in °C or °F as appropriate to the uncertainty statement.
9. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
10. The term F represents Frequency in Hz appropriate to the uncertainty statement.

