PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

MetryCo / Martha Rocio Rosas Montes

Calle Campos de Oriente No. 3525, Fracc. Urbivilla del Campo
Ciudad Juárez, Chihuahua, México. C.P. 32575

(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):

Chemical, Mechanical, Mass, Force and Weighing Devices, Electrical, Thermodynamic, Time and Frequency and Dimensional 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:	*Issue Date:*	*Expiration Date:*
April 19, 2018	April 26, 202024	June 30, 2026

Accreditation No.:	*Certificate No.:*
93827	L24-320

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

Certificate of Accreditation: Supplement

MetryCo / Martha Rocio Rosas Montes

Calle Campos de Oriente No. 3525, Fracc. Urbivilla del Campo
Ciudad Juárez, Chihuahua, México. C.P. 32575
Contact Name: Martha Rocio Rosas Montes. Phone: 656 751 4004

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

Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
pH Meter[FO]	4 pH	0.06 pH	pH Buffer Solutions	CENAM Technical Guide ASTM E70
	7 pH	0.06 pH		
	10 pH	0.06 pH		

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Manometer[FO]	-12 psi to 300 psi	0.025 % of reading	Druck DPI 610	CENAM Technical Guide
	100 psi to 10 000 psi	0.04 % of reading	700G Precision Pressure Test Gauge	
Torque Drives & Wrenches[FO]	0.5 N·m to 56.5 N·m (5 lbf·in to 500 lbf·in)	0.5 % of reading	Torque Transducers Dead Weight Torque Station	ISO 6789
Indirect Verification Hardness Tester Machine[FO]	40 HRB to 59 HRB	0.9 HRB	Hardness Standard Blocks	ASTM E18
	60 HRB to 79 HRB	0.7 HRB		
	80 HRB to 100 HRB	0.5 HRB		
	25 HRC to 39 HRC	0.6 HRC		
	40 HRC to 59 HRC	1 HRC		
	60 HRC to 70 HRC	0.5 HRC		
Safety and Relief Valve[F]	0.1 mPa to 68.95 mPa	6.9 kPa	Pressure Gauge Pattern: Fluke 2700 G-70M	CENAM Technical Guide

Mass, Force and Weighing Devices

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Scales and Balances Class III[FO]	1 lb to 10 lb (Res.= 0.000 5 lb)	$(1 \times 10^{-4} + 1.8 \times 10^{-4}\text{Wt})$ lb	Test Weight Set Class F	OML R 76-1
	1 lb to 20 lb (Res.= 0.000 1 lb)	$(1 \times 10^{-4} + 2.34 \times 10^{-4}\text{Wt})$ lb		
	1 lb to 50 lb (Res.= 0.000 2 lb)	$(2 \times 10^{-4} + 1.12 \times 10^{-4}\text{Wt})$ lb		

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Contact Name: Martha Rocio Rosas Montes. Phone: 656-751-4004

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

Mass, Force and Weighing Devices

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Scales and Balances Class III[FO]	1 lb to 100 lb (Res.= 0.001 lb)	$(1.1 \times 10^{-3} + 1.08 \times 10^{-4}\text{Wt})$ lb	Test Weight Set Class F	OML R 76-1
	50 lb to 500 lb (Res.= 0.05 lb)	$(5.54 \times 10^{-2} + 5.25 \times 10^{-5}\text{Wt})$ lb		
	500 lb to 5 000 lb (Res.= 1 lb)	$(1.14 + 3 \times 10^{-5}\text{Wt})$ lb		
Force – Compression, Tension- Source and Measure[FO]	1.1 N to 5 000 N	0.2 % of reading	Test Weight Set Class F	ASTM E 617 ISO 376 ISO7500-1
Mass Weight F1, F2, M1, M2, M3[FO]	1 g	22 µg	Double Substitution with Class E2 Weights, Balances & Mass Comparators	OIML R111
	2 g	25 µg		
	5 g	40 µg		
	10 g	43 µg		
	20 g	68 µg		
	50 g	80 µg		
	100 g	100 µg		
	200 g	200 µg		
	500 g	0.5 mg		
	1 kg	1.1 mg		
	2 kg	1.9 mg		
	5 kg	5 mg		
	10 kg	10 mg		
	20 kg	21 mg		
	1 mg	5 µg		
	2 mg	5 µg		
	5 mg	5 µg		
	10 mg	5 µg		
	20 mg	6 µg		
	50 mg	10 µg		
	100 mg	10 µg		
	200 mg	12 µg		
	500 mg	15 µg		

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Analytical Balances[O]	1 mg to 20 g (Res.= 0.01 mg)	$(1.35 \times 10^{-2} + 3.98 \times 10^{-6}Wt)$ mg	Class E2 Weights	OIML R 76-1
	20 g to 500 g (Res.= 0.1 mg)	$(1.15 \times 10^{-1} + 1.63 \times 10^{-6}$ Wt) mg		
	500 g to 2 kg (Res.= 0.5 mg)	$(2.82 \times 10^{-1} + 1.62 \times 10^{-6}Wt)$ mg		
	2 kg to 30 kg (Res.= 1 mg)	$(1.17 \times 10^{-1} + 1.77 \times 10^{-6}Wt)$ mg		

Time and Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Stopwatch and Time Counters Fixed Points[FO]	86 400 s	0.3 s	Digital Chronometer Traceable - Casio	NIST Recommended Practice Guide Special Publication 960-12

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
IR Thermometers[FO]	10 °C to 400 °C (50 °F to 752 °F)	1.4 °C (34.52 °F)	Omega Infrared Calibrator	JIS C1612
Temperature Measurement Instrument[FO]	-25 °C to 150 °C	0.45 °C	Fluke Model 9142 Field Metrology Well	CENAM Technical Guide
Relative Humidity – Measuring Equipment[FO]	14 % RH	2 % RH	Hygrometer and Salt Solutions	
	32 % RH	2 % RH		
	72 % RH	2 % RH		

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Vernier Dial and Digital Calipers[FO]	1 mm to 500 mm	$(14 + 9 \times 10^{-3}L)$ µm	Gage Blocks	JIS B 7507

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Vernier Dial and Digital Calipers[FO]	500.01 mm to 1 200 mm	(7.15 + 7.86 X 10^{-3}L) µm	Gage Blocks	JIS B 7507
Vernier Dial and Digital Height Gages[FO]	1 mm to 500 mm	(14 + 9 x 10^{-3}L) µm	Gage Blocks	JIS B7517
	500.01 mm to 1 200 mm	(7.15 + 7.86 x 10^{-3}L) µm		
Micrometers[FO]	1 mm to 500 mm	(1.66 + 3.3 x 10^{-3}L) µm	Gage Blocks	JIS B 7502
Metal Rules[FO]	1 mm to 500 mm	(45.8 + 0.3L) µm	Gage Blocks	JIS B 7516
	1 mm to 2 400 mm	(58.85 + 1.58 x 10^{-3}L) µm	Vision System with Mitutoyo Digital Proscale	
Dial and Digital Indicators[FO]	5 mm to 60 mm	(1.56 + 0.001 8L) µm	Gage Blocks	ASME B89.1.10M
Test Indicators[FO]	1 mm to 5 mm	(0.734 + 0.089L) µm	Gage Blocks	ASME B89.1.10M
Microscope X and Y Axis Linearity[FO]	0.25 mm to 200 mm	5 µm	Master Glass Reticle	JIS B 7184
Microscope Magnification[FO]	10 X	0.05 % of magnification	Master Glass Reticle	JIS B 7184
	50 X	0.05 % of magnification		
	100 X	0.05 % of magnification		
Thread Ring Pitch Diameter[FO]	4 - 40 to 4 - 14	(119.75 + 2.6L) µin	Master Plug Gage	ASME B1.2 ASME B1.20.2M
Thread Ring Minor Diameter[FO]	4 - 40 to 4 -14	(90.56 + 4.95L) µin		
Cylindrical Diameter Outside and Limit Gages[FO]	0.1 mm to 25 mm	0.25 µm	Laser Scan Micrometer	ASME 89.1.5 CENAM Technical Guide
Thread Plug Major Diameter[FO]	4 - 40 to 4 -14	(35.3 + 17.45L) µin	Tree Wire Method	ASME B1.2 ASME B1.20.2M
Thread Plug Pitch Diameter[FO]	4 - 40 to 4 -14	(121 + 8.54L) µin		
Surface Plate Flatness[FO]	4 in to 60 in	25 µin	Electronics Level	ASTM B89.3.7
Surface Plate Repeat Reading[FO]	0.002 in to 0.5 in	40 µin	Digital Indicator	ASTM B89.3.7
Optical Comparator[FO] X axis linearity Y axis linearity[FO]	1 mm to 200 mm	5 µm	Gage Blocks	JIS B 7184

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Optical Comparator Axis Squareness[O]	90°	0.1°	Gage Blocks	JIS B 7184
Optical Comparators Angulatory[O]	0° to 180°	0.03°	Angle Blocks	
Optical Comparators Magnification[O]	10X	0.05 % of reading	Master Glass Scale	
	20X	0.05 % of reading		
	31.25X	0.05 % of reading		
Optical Comparators Angularity[O]	30°, 45°, 60°, 90	0.1°	981-103 Angle Plate	
Protractors[FO]	1º to 180º	0.3°	Gage Blocks/Sine Bar	PC-MDA01
CMM Performance[O]	25 mm to 1 500 mm	(0.001 + 0.005L) mm	Gage Block Grade K	ISO 10360
Gage Block Set 1, 2 Grade[F]	1.005 mm to 100 mm	(0.12 + 0.35L) mm	Gage Block Grade 0	ASME B89

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Measure AC Voltage at the listed frequencies[FO]			Fluke 5520A	PC 0900
10 Hz to 45 Hz	33 V to 329.99 V	1.5 mV/V + 6 600 µV		
1 kHz to 10 kHz	33 V to 329.99 V	0.8 mV/V + 15 mV		
10 kHz to 20 kHz	33 V to 329.99 V	0.9 mV/V + 33 mV		
Equipment to Measure AC Voltage at the listed frequencies[FO]				
10 Hz to 45 Hz	330 V to 1 020 V	0.5 mV/V + 80 000 µV		
45 Hz to 10 kHz	330 V to 1 020 V	2 mV/V + 0.1 mV		
10 kHz to 20 kHz	330 V to 1 020 V	2 mV/V + 0.5 mV		
Equipment to Measure AC Current At the listed frequencies[FO]				
10 Hz to 20 Hz	0.029 mA to 0.33 mA	2.5 mA/A + 0.15 µA		
20 Hz to 45 Hz	0.029 mA to 0.33 mA	1.3 mA/A + 0.13 µA		
45 Hz to 1 kHz	0.029 mA to 0.33 mA	1.3 mA/A + 0.13 µA		

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Equipment to Measure AC Current At the listed frequencies[FO]			Fluke 5520A	PC 0900
1 kHz to 5 kHz	0.029 mA to 0.33 mA	4 mA/A + 0.15 µA		
5 kHz to 10 kHz	0.029 mA to 0.33 mA	13 mA/A + 0.15 µA		
Equipment to Measure AC Current At the listed frequencies[FO]				
10 Hz to 20 Hz	0.33 mA to 3.29 mA	2 mA/A + 0.3 µA		
20 Hz to 45 Hz	0.33 mA to 3.29 mA	1 mA/A + 0.3 µA		
45 Hz to 1 kHz	0.33 mA to 3.29 mA	1 mA/A + 0.3 µA		
1 kHz to 5 kHz	0.33 mA to 3.29 mA	2 mA/A + 0.3 µA		
5 kHz to 10 kHz	0.33 mA to 3.29 mA	6 mA/A + 0.3 µA		
Equipment to Measure AC Current At the listed frequencies[FO]				
10 Hz to 20 Hz	3.3 mA to 32.99 mA	2 mA/A + 3 µA		
20 Hz to 45 Hz	3.3 mA to 32.99 mA	1 mA/A + 3 µA		
45 Hz to 1 kHz	3.3 mA to 32.99 mA	0.9 mA/A + 3 µA		
1 kHz to 5 kHz	3.3 mA to 32.99 mA	2 mA/A + 3 µA		
5 kHz to 10 kHz	3.3 mA to 32.99 mA	6 mA/A + 3 µA		
Equipment to Measure AC Current At the listed frequencies[FO]				
10 Hz to 20 Hz	33 mA to 329.99 mA	2 mA/A + 30 µA		
20 Hz to 45 Hz	33 mA to 329.99 mA	1 mA/A + 30 µA		
45 Hz to 1 kHz	33 mA to 329.99 mA	0.9 mA/A + 30 µA		
1 kHz to 5 kHz	33 mA to 329.99 mA	2 mA/A + 30 µA		
5 kHz to 10 kHz	33 mA to 329.99 mA	6 mA/A + 30 µA		
Equipment to Measure AC Current At the listed frequencies[FO]				
10 Hz to 45 Hz	0.33 A to 2.19 A	2 mA/A + 300 µA		
45 Hz to 1 kHz	0.33 A to 2.19 A	1 mA/A + 300 µA		
1 kHz to 5 kHz	0.33 A to 2.19 A	14 mA/A + 0.5 mA		

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Equipment to Measure AC Current At the listed frequencies[FO]			Fluke 5520A	PC 0900
10 Hz to 45 Hz	2.2 A to 11 A	0.6 mA/A + 2 000 µA		
45 Hz to 1 kHz	2.2 A to 11 A	1 mA/A + 2 000 µA		
1 kHz to 5 kHz	2.2 A to 11 A	3.3 mA/A + 2 000 µA		
Equipment to Measure DC Voltage[FO]	3.299 mV to 329.999 9 mV	60 µ V/V + 3 µV		
	0.032 9 V to 3.299 999 V	50 µ V/V + 5 µV		
	0.329 V to 32.999 99 V	50 µ V/V + 50 µV		
	100 V to 1 020 V	55 µ V/V + 500 µV		
	100 V to 1 000 V	55 µ V/V + 1 500 µV		
Equipment to Measure DC Current[FO]	0.032 9 mA to 3.299 99 mA	130 µ A/A + 0.05 µA		
	0.329 9 mA to 32.999 9 mA	100 µ A/A + 0.25 µA		
	3.29 mA to 329.999 mA	100 µ A/A + 3.3 µA		
	0.021 9 A to 2.199 99 A	300 µ A/A + 44 µA		
	0.11 A to 11 A	600 µ A/A + 330 µA		
Equipment to Measure Resistance[FO]	0.009 121 Ω to 10.99 Ω	110 µΩ/Ω + 0.008 Ω	Fluke 5520A	PC 1005
	11 Ω to 32.99 Ω	120 µΩ/Ω + 0.015 Ω		
	33 Ω to 109.99 Ω	90 µΩ/Ω + 0.015 Ω		
	110 Ω to 329.99 Ω	90 µΩ/Ω + 0.015 Ω		
	330 Ω to 1.09 kΩ	90 µΩ/Ω + 0.006 Ω		
	1.1 kΩ to 3.29 kΩ	90 µΩ/Ω + 0.006 Ω		
	3.3 kΩ to 10.99 kΩ	90 µΩ/Ω + 0.006 Ω		
	11 kΩ to 32.99 kΩ	90 µΩ/Ω + 0.006 Ω		
	33 kΩ to 109.99 kΩ	110 µΩ/Ω + 6 Ω		
	110 kΩ to 329.99 kΩ	120 µΩ/Ω + 6 Ω		
	330 kΩ to 1.099 MΩ	150 µΩ/Ω + 55 Ω		
	1.1 MΩ to 3.29 MΩ	150 µΩ/Ω + 55 Ω		
	3.3 MΩ to 10.99 MΩ	600 µΩ/Ω + 550 Ω		
	11 MΩ to 32.99 MΩ	1 MΩ/Ω + 550 Ω		
	33 MΩ to 109.99 MΩ	5 MΩ/Ω + 5.5 kΩ		
	110 MΩ to 330 MΩ	5 MΩ/Ω + 16.5 kΩ		

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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J[FO]	-210 °C to -100 °C	0.27 °C	Fluke 5520A Electrical Simulation of Thermocouple Output	PC TTC 01
	-100 °C to -30 °C	0.16 °C		
	-30 °C to 150 °C	0.14 °C		
	150 °C to 760 °C	0.17 °C		
	760 °C to 1 200 °C	0.23 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K[FO]	-200 °C to -100 °C	0.33 °C		
	-100 °C to -25 °C	0.18 °C		
	-25 °C to 120 °C	0.16 °C		
	120 °C to 1 000 °C	0.26 °C		
	1 000 °C to 1 372 °C	0.4 °C		
Equipment to Output Capacitance At the listed frequencies[FO]			Fluke 5520A	PC 0101 PC 1000
50 Hz to 1 kHz	1.1 nF to 3.299 9 nF	5 pF/nF + 0.01 nF		
50 Hz to 1 kHz	3.3 nF to 10.999 nF	5 pF/nF + 0.01 nF		
50 Hz to 1 kHz	11 nF to 32.999 nF	2.5 pF/nF + 0.1 nF		
50 Hz to 1 kHz	33 nF to 109.99 nF	2.5 pF/nF + 0.1 nF		
50 Hz to 1 kHz	110 nF to 329.99 nF	2.5 pF/nF + 0.3 nF		
50 Hz to 1 kHz	0.33 µF to 1.099 9 µF	2.5 nF/µ F + 1 nF		
50 Hz to 1 kHz	1.1 µF to 3.299 9 µF	3.5 nF/µ F + 3 nF		
Equipment to Output Capacitance At the listed frequencies[FO]				PC 0101 PC 1000
50 Hz to 400 Hz	3.3 µF to 10.999 µF	3.5 nF/µ F + 10 nF		
50 Hz to 400 Hz	11 µF to 32.999 µF	4 nF/µ F + 30 nF		
Equipment to Output Capacitance At the listed frequencies[FO]				
50 Hz to 200 Hz	33 µF to 109.99 µF	5 nF/µF + 100 nF		
Equipment to Output Capacitance At the listed frequencies[FO]				
50 Hz to 100 Hz	110 µF to 329.99 µ F	7 nF/µF + 300 nF		
50 Hz to 100 Hz	330 µF to 1.1 mF	10 µF/mF + 300 nF		

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Equipment to Measure AC/DC High Voltage Up to 60 Hz[FO]	0 kV to 6 kV	70 V	Fluke 289 / Fluke 80K-6	PC 0900, PC 0700

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.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.
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 Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.