PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

America Amaranta Siller Compian / Mediciones y Proyectos Industriales MEPI

Nueva 264, Col. El Mirador
Ramos Arizpe, Coahuila, México. C.P. 25902

(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, Optical, Time and Frequency, Mass, Force and Weighing Devices, Chemical , Electrical and Thermodynamic 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:*
June 13, 2022	June 13. 2024	September 30, 2026

Accreditation No.:	*Certificate No.:*
115763	L24-455

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

America Amaranta Siller Compian / Mediciones y Proyectos Industriales MEPI

Nueva 264, Col. El Mirador
Ramos Arizpe, Coahuila, México. C.P. 25902
Contact Name: America Amaranta Siller Compian Phone: 844-494-4159

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Outside Micrometer[FO]	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L)$ µm	Gage Blocks Grade 0	JIS B 7502
Calipers[FO]	0.5 mm to 300 mm	$(5.78 + 5 \times 10^{-6}L)$ µm	Gage Blocks Grade 0	JIS B 7507
Height Gage[FO]	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L)$ µm	Gage Blocks Grade 0	JIS B 7517
Dial Test Indicator[FO]	0.001 mm to 1 mm	0.58 µ m	Gage Blocks Grade 0	JIS B 7533
Indicator[FO]	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L)$ µm	Gage Blocks Grade 0 Granite Plate	JIS B 7503 JIS B 7533
Thickness Gage[FO]	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L)$ µm	Gage Blocks Grade 0	
Depth Gage[FO]	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L)$ µm	Gage Blocks Grade 0	JIS B 7518
Optical Comparator X Axis Linearity Y Axis Linearity[O]	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L)$ µm	Glass Rule	JIS B 7184
Optical Comparator Angularity[O]	0º to 90º	0.003 5º	Angle Blocks Set	
Microscopes X Axis Linearity Y Axis Linearity[FO]	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L)$ µm	Glass Rule	JIS B 7153
Rule[FO]	0.01 m to 2 m	$(68.56 + 4.6 \times 10^{-3}L)$ µm	Master Rule	JIS B 7516
Measuring Tape[FO]	0.01 m to 50 m	$(68.56 + 4.6 \times 10^{-3}L)$ µm	Master Rule	JIS B 7512
Pi Tape[FO]	Up to 200 in	$(1.46 \times 10^{-3} + 6 \times 10^{-6}L)$ in	Master Rule	NIST SOP 23
Protractor Angle Meter[FO]	0º to 90º	0.003 5º	Angle Block Set	CEM DI-003
Feeler Gage[FO]	0.01 mm to 3 mm	0.94 µm	Micrometer	JIS B 7524
Pin Gage and Plain Plug Gage[FO]	0.2 mm to 25 mm	0.94 µm	Micrometer	ASME B 89 1.5
Coating Thickness Gage[FO]	23 µm to 1 009 µm	0.21 µm	Coating Thickness	Standard Manufacturer's Manual
Radius Gage[FO]	Up to 2 in	$(1.4 + 5 \times 10^{-3}L)$ µm	Microscope	Internal Procedure PC-DI-17
Roughness Meter[FO]	Ra : 9.6 µm Rz: 2.4 µm	0.083 µm 0.02 µm	Roughness Master	JIS B 0601
Granite Surface[FO]	0.5 µm to 25 µm	(0.25 + 0.01L) µm	Repeat Meter and Dial Comparator	JIS B 7513

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Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Gage[FO]	3 psi to 300 psi	0.3 psi	Ashcroft Pressure Gage	OIML R 101
	300 psi to 14 500 psi	2.9 psi	Digital Pressure Gage	
Equpment to Measure Differential Pressure [FO]	0.1 hPa to 10 hPa	0.89 Pa		
Torque Meter, Screwdriver[FO]	0.028 Nm to 0.28 Nm	$(6.1 \times 10^{-5} + 1.75 \times 10^{-3}T)$ N·m	Torque Transducer	ISO 6789, ISO 5393
	1.1 Nm to 11 Nm	$(7.53 \times 10^{-4} + 7.66 \times 10^{-3}T)$ N·m		
	5 Nm to 500 Nm	$(3.23 \times 10^{-1} + 3.35 \times 10^{-3}T)$ N·m		
	200 Nm to 977 Nm	$(5.99 \times 10^{-4} + 1.2 \times 10^{-3}T)$ N·m		
Torque Transducer[F]	0.2 Nm to 20 Nm	$(6 \times 10^{-6} + 9 \times 10^{-6}T)$ N·m	Arm and Weights	Euramet-cg 14
	5 Nm to 300 Nm	$(1.24 \times 10^{-4} + 6 \times 10^{-6}T)$ N·m		
	100 Nm to 977 Nm	$(8.03 \times 10^{-4} + 5 \times 10^{-6}T)$ N·m		
Vaccum Meter[FO]	-10 psi to 3 psi	0.082 psi	Digital Vaccum Meter	OIML R 101
Gas Flow Meters: Standard Leak Mass Flow Controller[O]	20 cm^3/h to 2 000 cm^3/h	0.2 % of reading	Air flow Calibrator	Manufacturer Manual
Leak Tester	20 cm^3/h to 2 000 cm^3/h	0.2 % or reading		

Time and Frequency

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Timer Stopwatch[FO]	Up to 86 400 s	3.5 s/day	Stopwatch Master	NIST SP 960-12
Equipment to Output Angular Velocity Sources, Stroboscope, Vortex Mixers, Centrifuges, Rotarex[FO]	2 rpm to 99 900 rpm	0.058 rpm	Photo- Tachometer	CENAM Technical Guide

Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Luxmeter[FO]	20 lux to 1 800 lux	1.5 % of reading	Luxmeter Master	NIST SP 250-95
	1 800 lux to 3 500 lux	2.3 % of reading		

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Optical

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Gloss Meter[FO]	Angle 20º : 96 Gloss Units	0.28 Gloss Units	High Gloss Calibration Standard	ISO 2813
	Angle 60º : 97 Gloss Units	0.27 Gloss Units		
	Angle 85º: 100 Gloss Units	0.27 Gloss Units		

Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Dynamometers[FO]	0.05 kg to 300 kg	$(5.59 \times 10^{-3} + 7 \times 10^{-6} Wt)$ kg	Weight set F1, Weight Parallelepiped M1	NMX-CH-7500-1-IMNC
Force Measurement instrument Tensile and Compression[FO]	0.05 kg to 300 kg	$(5.59 \times 10^{-3} + 7 \times 10^{-6} Wt)$ kg		
Force Measurement Instrument Compression[FO]	300 kg to 30 000 kg	$(2.21 + 3.4 \times 10^{-4} Wt)$ kg	Load Cell	NMX-CH-7500-1-IMNC
Balances[O]	1 g to 220 g (Res.= 0.001 g)	$(8.12 \times 10^{-4} + 6 \times 10^{-6} Wt)$ g	Weight Set F1	Euramet cg-18
	1 g to 1 000 g (Res.= 0.01 g)	$(7.81 \times 10^{-3} + 4 \times 10^{-6} Wt)$ g		
	1 g to 5 000 g (Res.= 0.05 g)	$(3.9 \times 10^{-2} + 4 \times 10^{-6} Wt)$ g		
Scales[O]	0.01 kg to 10 kg (Res.= 0.002 kg)	$(1.63 \times 10^{-3} + 3 \times 10^{-6} Wt)$ kg	Weight Set F1 Weight Parallelepiped M1	
	0.5 kg to 50 kg (Res.= 0.01 kg)	$(8.15 \times 10^{-3} + 3 \times 10^{-6} Wt)$ kg		
	1 kg to 100 kg (Res.= 0.02 kg)	$(1.63 \times 10^{-2} + 3 \times 10^{-6} Wt)$ kg		
	100 kg to 300 kg (Res.= 0.05 kg)	$(4.07 \times 10^{-2} + 3 \times 10^{-6} Wt)$ kg	Weight Parallelepiped M1	
	300 kg to 1 000 kg (Res.= 0.2 kg)	$(2.21 \times 10^{-1} + 1.41 \times 10^{-6} Wt)$ kg	Weights Parallelepiped M1	Euramet cg-18
	1 000 kg to 5 000 kg (Res.= 0.5 kg)	$(4.85 \times 10^{-1} + 3.92 \times 10^{-7} Wt)$ kg	Weights Parallelepiped M1	

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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 (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Weights Class M3[FO]	1 kg	0.17 g	F1 Weight Balance	ABBA Method OIML R 111
	2 kg	0.33 g		
Weights Class[FO] M2, M3	5 kg	0.27 g	M1 Weight Balance	
	10 kg	0.54 g		
Weight Class[FO] M1, M2, M3	20 kg	0.33 g	F1 Weight Balance	

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Wrist Strap Tester[F]	675 kΩ to 11.5 MΩ	0.68 kΩ	Calibration Unit Desco 07010	Manufacturer's Manual
Footwear Tester[F]	675 kΩ to 120 MΩ	0.68 kΩ		
Equipment to Output DC Voltage[FO]	-10 mV to 75 mV	0.045 % of reading	Fluke 725	CEM EL-010
	75 mV to 100 mV	0.047 % of reading		
	0.1 V to 10 V	0.047 % of reading		
Equipment to Output DC Current[FO]	0.1 mA to 24 mA	0.033 % of reading		
Equipment to Output Resistance[FO]	15 Ω to 400 Ω	0.12 % of reading		
	401 to 1 500 Ω	0.58 % of reading		
	1 500 Ω to 3 200 Ω	1.2 % of reading		
Equipment to Measure DC Voltage[FO]	-10 mV to 75 mV	0.045 % of reading	Fluke 725	Euramet_cg-15
	75 mV to 90 mV	0.049 % of reading		
	0.09 V to 20 V	0.035 % of reading		
	20 V to 30 V	0.031 % of reading		
Equipment to Measure Resistance[FO]	1 Ω to 11 MΩ	0.022 % of reading	Resistance Decade Box	
	1 Ω to 400 Ω	0.12 % of reading	Fluke 725	
	401 Ω to 1 500 Ω	0.58 % of reading		
	1 500 Ω to 3 200 Ω	1.2 % of reading		
Equipment to Measure DC Current[FO]	0.01 mA to 24 mA	0.033 % of reading		

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Chemical

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pH Meter[FO]	4 pH	0.021 pH	pH Buffer Solutions	ISO 10523
	7 pH	0.021 pH		
	10 pH	0.021 pH		
Conductivity Meter[FO]	100 µS	0.25 µS/cm	Reference Conductivity Solutions	ASTM D1125
	1 000 µS	1 µS/cm		
	10 000 µS	5 µS/cm		

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Measure AC Current 60 Hz[FO]	1 A to 3 000 A	0.5 % of reading	Clamp Meter with Flex Current Probe	CEM EL-010
Equipment to Measure Frequency[FO]	1 Hz to 1 000 Hz	0.07 % of reading	Fluke 725	Euramet_cg-15
	1 001 Hz to 10 000 Hz	0.058 % of reading		
Equipment to Output Frequency[FO]	1 Hz to 1 000 Hz	0.058 % of reading		CEM EL-010
	1 001 Hz to 10 000 Hz	0.29 % of reading		
Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B[FO]	600 ºC to 1 800 ºC	1.8 ºC	Fluke 725 Electrical Simulation of Thermocouple Output	Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E[FO]	- 200 ºC to 950 ºC	0.82 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J[FO]	- 200 ºC to 1 200 ºC	0.82 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K[FO]	- 200 ºC to 1 370 ºC	0.93 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L[FO]	- 200 ºC to 900 ºC	0.82 ºC		

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Electrical

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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N[FO]	-200 ºC to 1 300 ºC	1.1 ºC	Fluke 725 Electrical Simulation of Thermocouple Output	Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R[FO]	-20 ºC to 1 750 ºC	1.8 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S[FO]	-20 ºC to 1 750 ºC	1.9 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T[FO]	-200 ºC to 400 ºC	0.93 ºC		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U[FO]	-200 ºC to 400 ºC	0.87 ºC		
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 Ω[FO]	-200 ºC to 800 ºC	0.39 ºC	Fluke 725 Electrical Simulation of RTD Output	Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 200 Ω[FO]	-200 ºC to 630 ºC	0.24 ºC		
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 500 Ω[FO]	-200 ºC to 630 ºC	0.36 ºC		
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1 000 Ω[FO]	-200 ºC to 630 ºC	0.24 ºC		
Temperature Calibration, Indication and Control Equipment used with RTD Ni 672, 120 Ω[FO]	-80 ºC to 260 ºC	0.24 ºC		

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Thermodynamic

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Temperature Measurement Thermocouple[FO] Type J, K, S	30 ºC to 500 ºC	1 ºC	Fluke 725 with RTD Pt100 Drywell	ASTM E220
Liquid in Glass Thermometer[FO]	30 ºC to 500 ºC	1 ºC		
Direct reading Thermometer[FO]	30 ºC to 500 ºC	1 ºC		
Humidity Meter, Humidity Chamber, Humidity Recorder[FO]	10 % RH to 95 % RH	0.77 % HR	Master Thermohygrometer Climatic Chamber	CENAM Technical Guide
Thermometer, Temperature Chamber, Temperature Recorder[FO]	0 ºC to 55 ºC	0.024 ºC		
Muffle, Oven, Thermal Chamber[FO]	0 ºC to 1 000 ºC	0.12 ºC	RTD Pt 100 Thermocouple Type K Fluke 725	ASTM E220

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.

4. 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 T represents torque in N•m (including SI multiple and submultiple units) for the International System of Units (the SI) or ozf•in, lbf•in and lbf•ft for the USC system of units.

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