



# 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, Mass, Force and Weighing Devices, Optical, Time  
and Frequency and Electrical***  
*(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:*

June 13, 2022

*Issue Date:*

June 13, 2022

*Expiration Date:*

September 30, 2024

*Accreditation No.:*

115763

*Certificate No.:*

L22-432

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.pilabs.com](http://www.pilabs.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: 844-310-7360

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

### Dimensional

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
Outside Micrometer <sup>FO</sup>	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Grade 0 JIS B 7502
Calipers <sup>FO</sup>	0.5 mm to 300 mm	$(5.78 + 5 \times 10^{-6}L) \mu\text{m}$	Gage Blocks Grade 0 JIS B 7507
Height Gage <sup>FO</sup>	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Grade 0 JIS B 7517
Dial Test Indicator <sup>FO</sup>	0.001 mm to 1 mm	0.58 $\mu\text{m}$	Gage Blocks Grade 0 JIS B 7533
Indicator <sup>FO</sup>	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Grade 0 Granite Plate JIS B 7503 JIS B 7533
Depth Gage <sup>FO</sup>	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Grade 0 JIS B 7518
Thickness Gage <sup>FO</sup>	0.5 mm to 300 mm	$(5.79 \times 10^{-1} + 4 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Grade 0 JIS B 7503 JIS B 7533
Optical Comparator X Axis Linearity	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L) \mu\text{m}$	Glass Rule JIS B 7184
Y Axis Linearity <sup>O</sup>	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L) \mu\text{m}$	
Optical Comparator Angularity <sup>O</sup>	0° to 90°	0.003 5°	Angle Blocks Set JIS B 7184
Microscopes X Axis Linearity	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L) \mu\text{m}$	Glass Rule JIS B 7153
Y Axis Linearity <sup>FO</sup>	Up to 200 mm	$(1.4 + 5 \times 10^{-3}L) \mu\text{m}$	
Rule <sup>FO</sup>	0.01 m to 2 m	$(290.67 + 7.94 \times 10^{-4}L) \mu\text{m}$	Master Rule JIS B 7516
Measuring Tape <sup>FO</sup>	0.01 m to 50 m	$(578.34 + 1.68 \times 10^{-3}L) \mu\text{m}$	Master Rule JIS B 7512
Pi Tape <sup>FO</sup>	Up to 200 in	$(1.46 \times 10^{-3} + 6 \times 10^{-6}L) \text{in}$	Master Rule NIST SOP 23
Protractor Angle Meter <sup>FO</sup>	0° to 90°	0.003 5°	Angle Block Set CEM DI-003
Feeler Gage <sup>FO</sup>	0.01 mm to 3 mm	0.94 $\mu\text{m}$	Micrometer JIS B 7524
Pin Gage and Plain Plug Gage <sup>FO</sup>	0.2 mm to 25 mm	0.94 $\mu\text{m}$	Micrometer ASME B 89 1.5
Coating Thickness Gage <sup>FO</sup>	23 $\mu\text{m}$ to 1 009 $\mu\text{m}$	0.21 $\mu\text{m}$	Coating Thickness Standard Manufacturer's Manual



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### Mechanical

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
Pressure Gage <sup>FO</sup>	3 psi to 300 psi	0.3 psi	Ashcroft Pressure Gage OIML R 101

### 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
Dynamometers <sup>FO</sup>	0.05 kg to 300 kg	$(5.59 \times 10^{-3} + 7 \times 10^{-6} \text{Wt})$ kg	Weight set F1, Weight parallelepiped M1 NMX-CH-7500-1-IMNC
Force Measurement instrument Tensile and Compression <sup>FO</sup>	0.05 kg to 300 kg	$(5.59 \times 10^{-3} + 7 \times 10^{-6} \text{Wt})$ kg	
Balances <sup>O</sup>	1 g to 220 g (Res.= 0.001 g)	$(8.12 \times 10^{-4} + 6 \times 10^{-6} \text{Wt})$ g	Weight Set F1 Euramet cg-18
	1 g to 1 000 g (Res.= 0.01 g)	$(7.81 \times 10^{-3} + 4 \times 10^{-6} \text{Wt})$ g	
	1 g to 5 000 g (Res.= 0.05 g)	$(3.9 \times 10^{-2} + 4 \times 10^{-6} \text{Wt})$ g	
Scales <sup>O</sup>	0.01 kg to 10 kg (Res.= 0.002 kg)	$(1.63 \times 10^{-3} + 3 \times 10^{-6} \text{Wt})$ kg	Weight Set F1 Weight Parallelepiped M1 Euramet Cg-18
	0.5 kg to 50 kg (Res.= 0.01 kg)	$(8.15 \times 10^{-3} + 3 \times 10^{-6} \text{Wt})$ kg	
	1 kg to 100 kg (Res.= 0.02 kg)	$(1.63 \times 10^{-2} + 3 \times 10^{-6} \text{Wt})$ kg	
	100 kg to 300 kg (Res.= 0.05 kg)	$(4.07 \times 10^{-2} + 3 \times 10^{-6} \text{Wt})$ kg	Weight Parallelepiped M1 Euramet cg-18

### 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
Timer Stopwatch <sup>FO</sup>	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 <sup>FO</sup>	2 rpm to 99 900 rpm	0.058 rpm	Photo- Tachometer CENAM Technical Guide



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### Optical

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
Luxmeter <sup>FO</sup>	20 lux to 1 800 lux	1.5 % of reading	Luxmeter Master CENAM Technical Guide
	1 800 lux to 3 500 lux	2.3 % of reading	

### 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
Wrist Strap Tester <sup>F</sup>	675 k $\Omega$ to 11.5 M $\Omega$	0.68 k $\Omega$	Calibration Unit Desco 07010 Manufacturer's Manual
Footwear Tester <sup>F</sup>	675 k $\Omega$ to 120 M $\Omega$	0.68 k $\Omega$	Calibration Unit Desco 07010 Manufacturer's Manual
Equipment to Output DC Voltage <sup>FO</sup>	-10 mV to 75 mV	0.055 % of reading	Fluke 724 Euramet cg-15
	75 mV to 100 mV	0.047 % of reading	
	0.1 V to 20 V	0.035 % of reading	
	20 V to 30 V	0.031 % of reading	
Equipment to Output DC Current <sup>FO</sup>	0.1 mA to 24 mA	0.033 % of reading	Fluke 724 Euramet cg-15
Equipment to Output Resistance <sup>FO</sup>	Up to 400 $\Omega$	0.033 % of reading	Fluke 724 CEM EL-010
	401 to 1 500 $\Omega$	0.039 % of reading	
	1 500 $\Omega$ to 3 200 $\Omega$	0.041 % of reading	
Equipment to Measure DC Voltage <sup>FO</sup>	-10 mV to 75 mV	0.055 % of reading	Fluke 724 Electrical Simulation of Thermocouple Output Euramet cg-11
	75 mV to 100 mV	0.047 % of reading	
	0.1 V to 10 V	0.047 % of reading	
Equipment to Measure Resistance <sup>FO</sup>	15 $\Omega$ to 400 $\Omega$	0.046 % of reading	Fluke 724 Electrical Simulation of Thermocouple Output Euramet cg-11
	401 $\Omega$ to 1 500 $\Omega$	0.039 % of reading	
	1 500 $\Omega$ to 3 200 $\Omega$	0.041 % of reading	
Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type B <sup>FO</sup>	600 °C to 1 800 °C	1.6 °C	Fluke 724 Electrical Simulation of Thermocouple Output Euramet cg-11



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### Electrical

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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E <sup>FO</sup>	- 200 °C to 950 °C	0.71 °C	Fluke 724 Electrical Simulation of Thermocouple Output Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J <sup>FO</sup>	- 200 °C to 1 200 °C	0.71 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K <sup>FO</sup>	- 200 °C to 1 370 °C	0.81 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L <sup>FO</sup>	- 200 °C to 900 °C	0.71 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N <sup>FO</sup>	- 200 °C to 1 300 °C	0.91 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R <sup>FO</sup>	- 20 °C to 1 750 °C	1.6 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S <sup>FO</sup>	- 20 °C to 1 750 °C	1.7 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T <sup>FO</sup>	- 200 °C to 400 °C	0.81 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U <sup>FO</sup>	- 20 °C to 1 300 °C	0.76 °C	





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### Electrical

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Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 $\Omega^{FO}$	- 200 °C to 800 °C	0.34 °C	Fluke 724 Electrical Simulation of RTD Output Euramet cg-11
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 200 $\Omega^{FO}$	- 200 °C to 630 °C	0.21 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 500 $\Omega^{FO}$	- 200 °C to 630 °C	0.31 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1 000 $\Omega^{FO}$	- 200 °C to 630 °C	0.21 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Ni 672, 120 $\Omega^{FO}$	-80 °C to 260 °C	0.21 °C	

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<sup>F</sup> 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<sup>O</sup> 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<sup>FO</sup> 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.
8. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.

