



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Servicios Metrológicos Mundiales S.A. de C.V

*Islas Vírgenes # 2117, Colonia Jardines de la Cruz
Guadalajara, Jalisco, México. C.P. 44950*

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

January 31, 2017

Issue Date:

May 07, 2023

Expiration Date:

May 31, 2025

Accreditation No.:

88795

Certificate No.:

L23-363

*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

Servicios Metrológicos Mundiales S.A. de C.V

Islas Vírgenes # 2117 Colonia Jardines de la Cruz

Guadalajara, Jalisco, México. C.P. 44950

Contact Name: Miguel Felipe Ordaz Higareda Phone: 333 983-6308

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
Caliper ^{FO}	0.5 mm to 2 300 mm	$(12.1 + 3.5 \times 10^{-3}L) \mu\text{m}$	NMX-CH-002-IMNC Block Set Gage, Grade 0 Step Master
Micrometer ^{FO}	0.5 mm to 2 300 mm	$(7.18 \times 10^{-1} + 8.94 \times 10^{-3}L) \mu\text{m}$	NMX-CH-036- Set Block Gage Grade 0
Height Gage ^{FO}	0.5 mm to 2 300 mm	$(13.6 + 5 \times 10^{-3}L) \mu\text{m}$	NMX-CH-141 Master Block 0 Height Master Mitutoyo
Indicator ^{FO}	0.5 mm to 200 mm	$(7.9 + 1.04 \times 10^{-3}L) \mu\text{m}$	NMX-CH-036 Set Block Gage Grade
Angle ^{FO}	0° to 90°	0.12°	Angle Meter Pittsburg VDI/VDE 2648-1 Part1
Thickness Gauge ^{FO}	20 μm to 1 450 μm	0.049 μm	Galga of Calibration Elcometer ASTM D7091-13 ASTM E376-17
Precision Rules/Scale ^{FO}	28 mm to 2 000 mm	$(70 + 3 \times 10^{-4}L) \text{mm}$	Rule Metax JIS B 7516 OIML-R035-1-E CEM DI-012

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 Gauges ^{FO}	20 psi to 200 psi (0.14 MPa to 1.38 MPa)	0.32 psi (2.21 kPa)	Ametek Cal-Pal Calibrator NMX-CH-003-SCFI
	600 psi to 6 000 psi (4.14 MPa to 41.36 MPa)	4.1 psi (28.26 kPa)	Digital Manometer Kobold Mod. DSD-5600 NMX-CH-003-SCFI
	1 000 psi to 5 000 psi (6.90 MPa to 34.47 MPa)	6.2 psi (42.75 kPa)	Digital Manometer Keller Mod. Leo 1
	5 000 psi to 9 000 psi (34.47 to 62.05 MPa)	9.7 psi (66.88 kPa)	NMX-CH-003-SCFI-Valid
	2 000 psi to 20 000 psi (13.78 MPa to 137.89 MPa)	42 psi 289.58 kPa	Digital Manometer Aschroft NMX-CH-003-SCFI
	-11 psi to -0 psi (-0.1 MPa to 0 MPa)	0.009 psi (0.062 kPa)	Hathaway Pressure Calibrator Mod. Beta Port-P NMX-CH-003-SCFI



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Mechanical

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Pressure Gauges ^{FO}	15 psi to 150 psi (0.1 MPa to 1.03 MPa)	0.088 psi (0.061 kPa)	Hathaway Pressure Calibrator Mod. Beta Port-P NMX-CH-003-SCFI
	30 psi to 300 psi (0.21 MPa to 2.07 MPa)	0.089 psi (0.061 kPa)	
	3 bar to 30 bar (0.3 MPa to 3 MPa)	0.09 bar (9 kPa)	Digital Manometer KELLER Mod. Leo 2 NMX-CH-003-SCFI
	Up to 500 psi	0.21 psi	Master Manometer Brand Crystal Model CP2i NMX-CH-003-SCFI
Pressure Cell ^O	1 psi to 10 psi (6.89 kPa to 68.94 kPa)	0.02 psi (9 kPa)	Hathaway Pressure Calibrator Mod. Beta Port-P NMX-CH-003-SCFI
Equipment to Measure Differential Pressure ^O	-20 inH ₂ O to 20 inH ₂ O (-4.98 kPa to 4.98 kPa)	0.22 inH ₂ O (0.005 kPa)	Digital Pressure Differential Extech Mod. HD700 NMX-CH-003- SCFI
Equipment to Measure Differential Pressure ^{FO}	1 inH ₂ O to 200 inH ₂ O	0.078 inH ₂ O	Pressure Cell Brand: Hathaway Model Beta Port-P NMX-CH-003- SCFI
Torque Meter ^{FO}	50 lbf·in to 150 lbf·in (5.65 N·m to 16.95 Nm)	1.3 lb·in (0.15 Nm)	Torque Meter Urrea Mod.6205 ISO 6789-2 (CW & CCW)
	150 lbf·in to 240 lbf·in (16.95 Nm to 27.12 N·m)	1.9 lb·in (0.22 Nm)	
Equipment to Measure Torque ^O	20 lbf·in to 200.3 lbf·in (2.26 N·m to 22.6 N·m)	0.79 lb·in (0.09 Nm)	Torsional Torque Calibrator Snap-on, Mod. 16 ISO 6789-2 (CW & CCW)
	20 N·m to 119 N·m (14.75 lbf·ft to 87.79 lbf·ft)	0.2 N·m (0.14 lbf·ft)	
	25 N·m to 250 N·m (18.44 lbf·ft to 184.39 lbf·ft)	0.37 N·m (0.27 lb·ft)	Torsional Torque Calibrator Saltus Mod.PRG-T250 ISO 6789-2
	100 N·m to 299 N·m (73.75 lbf·ft to 220.53 lbf·ft)	0.5 N·m 0.36 lbf·ft	Torque Pair transducer American Mod. RJ-11043N ISO 6789-2
	300 N·m to 1 000 N·m (221.27 lbf·ft to 737.56 lbf·ft)	0.9 N·m 0.66 lbf·ft	



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Mechanical

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Equipment to Measure Torque Calibration of Testing Machines ^{FO}	0.1 N·m to 50 N·m	0.65 % of reading	Set of OIML R 111/ Class M2 Weights and Length Arm ASTM E2624
Multi Drive Testing ^O	Force: Up to 6 kN	5 % of reading	-Class M1 weights -Tachometer & Velocity Meter Extech Optical Tachometer Adapter Transmille EA003 -Force Calibration a Load Cell and Universal Testing Machine (ISO 7500-1 and ISO 376.
	Velocity: Up to 200 km/hr	1.5 % of reading	
Automotive Multi Aiming Station ^O	Distance: Up to 10 000 mm	0.92 mm	Distance Meter Extech Angle Meter Extech Guidelines for Calibration of Dynamometers CENAM Technical Guide
	Angle: 0° x 4 quad to 90° x 4 quad	0.12°	
Safety Valve ^F	Up to 400 psi (Up to 28 kg/cm ²)	0.14 psi (0.01 kg/cm ²)	Hathaway Pressure Calibrator Mod.: Beta Gauge II NOM-093-SCFI
Flow Meter ^{FO}	75 L/min to 300 L/min	0.43 L/min	Flow Meter Shentitech STUF300H ME-008 CEM
Air Velocity Handheld: Rotational Anemometers Pressure Anemometer Tube Anemometer Thermoelectric Anemometer ^{FO}	1.87 m/s to 28.67 m/s	0.75 m/s	Anemometer TSI ALNOR RVA801 ASTM D 3796 Standard practice for calibration of Type S Pitot Tubes

Acoustic

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
Sound Level Meter ^{FO}	94 dB and 114 dB	1.2 dB	Sound Level Calibrator ND9B @ 1 kHz IEC 60942



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Time and Frequency

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Stopwatch and Timers ^{FO}	0.01 s to 36 000 s	7.4 s/day	Stopwatch Control Company Mod. 300 Memory DRAFT SOP 24-NIST
Tachometer ^{FO}	240 rpm to 1000 rpm (10.45 rad/s to 104.72 rad/s)	0.17 rpm (0.018 rad/s)	Optical Tachometer Adapter Transmille EA003 Tachometer Calibration Guide by I.N.M. (Institute National of Metrology of Colombia)
	1 000 rpm to 60 000 rpm (104.72 rad/s to 6 283.19 rad/s)	1.8 rpm (0.181 rad/s)	

Mass, Force and Weighting 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
Weights Class M1 ^F	20 kg	0.33 g	Class M1 OIML R111 Weights Set Double Substitution
	10 kg	170 mg	
	5 kg	83 mg	
	2 kg	33 mg	
	1 kg	17 mg	
	500 g	8.3 mg	
	200 g	3.3 mg	
	100 g	1.7 mg	
	50 g	1 mg	
	20 g	0.83 mg	
	10 g	0.67 mg	
	5 g	0.53 mg	
	2 g	0.4 mg	
	1 g	0.33 mg	
	500 mg	0.27 mg	
	200 mg	0.2 mg	
	100 mg	0.17 mg	
50 mg	0.13 mg		
20 mg	0.1 mg		
10 mg	0.083 mg		



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Mass, Force and Weighting Devices

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Weights Class M2 ^F	20 kg	1 000 mg	Class M1 OIML R111 Weights Set Double Substitution
	10 kg	550 mg	
	5 kg	270 mg	
	2 kg	100 mg	
	1 kg	53 mg	
	500 g	27 mg	
	200 g	10 mg	
	100 g	5.3 mg	
	50 g	3.3 mg	
	20 g	2.5 mg	
	10 g	2 mg	
Weights Class M3 ^F	20 kg	3 300 mg	
	10 kg	1 600 mg	
	5 kg	800 mg	
	2 kg	300 mg	
	1 kg	167 mg	
	500 g	84 mg	
	200 g	34 mg	
	100 g	17 mg	
	50 g	10 mg	
	20 g	8.4 mg	
	10 g	3.4 mg	
Mechanical and Electronic Top Loader Balance ^O	0.001 g to 200 g (Res.= 0.000 5 g)	$(4.3 \times 10^{-5} + 3.79 \times 10^{-6}Wt) \text{ g}$	Master Weights Class E2 OIML R111
Scales ^O	100 g to 500 g (Res.= 0.005 g)	$(7.45 \times 10^{-4} + 4.59 \times 10^{-5}Wt) \text{ g}$	Master Weights Class M1 OIML R111
	500 g to 1 000 g (Res.= 0.02 g)	$(9.35 \times 10^{-3} + 2.87 \times 10^{-5}Wt) \text{ g}$	
	1 000 g to 10 000 g (Res.= 0.02 g)	$(3.8 \times 10^{-5}Wt) \text{ g}$	
	10 000 g to 20 000 g (Res.= 0.2 g)	$(6 \times 10^{-2} + 3.2 \times 10^{-5}Wt) \text{ g}$	
	20 000 g to 800 000 g (Res.= 1 g)	$(1.44 \times 10^{-2} + 3.43 \times 10^{-5}Wt) \text{ g}$	



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Chemical

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Gas Detector Oxygen (O ₂) ^{FO}	Up to 100 μ mol/mol	2 % of reading	Reference Material Oxygen 15 % Oxygen 18% IEC-60079-29-2 NOM-SECRE-007
Gas Detector Carbon Monoxide (CO) ^{FO}	Up to 100 μ mol/mol	2 % of reading	Reference Material CO ₂ 60 ppm and CO ₂ 100 ppm Master Gas RKI Instruments IEC-60079-29-2 NOM-SECRE-007
Gas Detector Hydrogen Sulfide (H ₂ S) ^{FO}	Up to 100 μ mol/mol	2 % of reading	Reference Material H ₂ S 10 ppm and H ₂ S 25 ppm Master Gas RKI Instruments IEC-60079-29-2 NOM-SECRE-007
Gas Detector Methane (% LEL) ^{FO}	Up to 100 μ mol/mol	2 % of reading	Reference Material Methane 10 %, 20 % and 50 % LEL IEC-60079-29-2 NOM-SECRE-007

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
Direct Reading Temperature ^{FO}	-50 °C to 350 °C	1.7 °C	Resistance Thermometer with Indicator Hart Scientific Mod. 1521 NMX-CH-70-1993-SCFI
	150 °C to 199 °C	0.12 °C	Jofra Dry Well
	200 °C to 300 °C	0.14 °C	NMX-CH-070
Temperature Measure Thermocouple Type B ^{FO}	600 °C to 1 820 °C	0.56 °C	Multifunction Calibration Transmille Model EA001A Euramet-cg-11
Temperature Measure Thermocouple Type C ^{FO}	10 °C to 2 316 °C	5.2 °C	
Temperature Measure Thermocouple Type E ^{FO}	-240 °C to 1 000 °C	1.2 °C	
Temperature Measure Thermocouple Type J ^{FO}	-200 °C to 1 200 °C	1.3 °C	



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Thermodynamic

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Temperature Measure Thermocouple Type K ^{FO}	-190 °C to 1 370 °C	4.6 °C	Multifunction Calibration Transmille Model EA001A Euramet-cg-11
Temperature Measure Thermocouple Type L ^{FO}	-200 °C to 900 °C	1.7 °C	
Temperature Measure Thermocouple Type N ^{FO}	-190 °C to 1 300 °C	1.3 °C	
Temperature Measure Thermocouple Type R ^{FO}	0 °C to 1 760 °C	1.3 °C	
Temperature Measure Thermocouple Type S ^{FO}	0 °C to 1 760 °C	0.91 °C	
Temperature Measure Thermocouple Type T ^{FO}	-240 °C to 400 °C	0.74 °C	
Temperature Measure Thermocouple Type U ^{FO}	-200 °C to 600 °C	1.2 °C	

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 Measure DC Voltage ^{FO}	200 mV to 2 V	8.3 μ V/V + 3.5 μ V	Multifunction Calibration Transmille Model 3050A Euramet-cg-15
	2 V to 220 V	8.3 μ V/V + 80 μ V	
	220 V to 1 kV	8.8 μ V/V + 0.5 mV	
Equipment to Measure AC Voltage	200 mV to 2 V	72 μ V/V + 0.6 μ V	
	2 V to 220 V	72 μ V/V + 2 μ V	
	220 V to 1 kV	77 μ V/V + 140 mV	
Equipment to Measure DC Current ^{FO}	200 μ A to 22 A	3.7 mA/A	
Equipment to Measure AC Current ^{FO}	200 μ A to 22 A	23 mA	
Equipment to Measure Frequency ^{FO}	10 kHz to 100 kHz	0.000 1 % of reading	
	100 Hz to 10 MHz	0.000 02 % of reading	
Equipment to Measure Resistance ^{FO}	0 M Ω to 100 M Ω	0.1 m Ω / Ω	
Equipment to Measure Capacitance ^{FO}	10 nF to 1 μ F	5.1 % of reading	



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Temperature calibration, Indication, and Control. Equipment used with Thermocouple type B	600 °C to 1 820°C	0.45 °C	Electrical Simulation of Thermocouple Multifunction Calibration Transmille Model EA001A Euramet-cg-11
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type C ^F	10 °C to 2 316 °C	0.35 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type E ^F	-250 °C to 1 000 °C	0.3 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type J ^F	-210 °C to 1 200 °C	0.2 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type K ^F	-200 °C to 1 370 °C	0.2 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type L ^F	-200 °C to 900 °C	0.1 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type N ^F	-200 °C to 1 300 °C	0.3 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type R ^F	0 °C to 1 760 °C	0.55 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type S ^F	0 °C to 1 760 °C	0.55 °C	
Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type T ^F	-250 °C to 400 °C	0.4 °C	



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Temperature Calibration, Indication, and Control. Equipment used with Thermocouple Type U ^F	-200 °C to 600 °C	0.15 °C	Electrical Simulation of Thermocouple Multifunction Calibration Transmille Model EA001A Euramet- cg-11

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