

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

SICAMING México, S.A. de C.V.

Dr. Gustavo Baz No. 317, Col. Hipico Metepec, Estado de México, México. C.P. 52156

(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):

Mechanical, Thermodynamic, Dimensional, and Mass, Force and Weighing 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

Perry Johnson Laboratory Accreditation, Inc. (PJLA) 755 W. Big Beaver, Suite 1325 Troy, Michigan 48084

Initial Accreditation Date:	Issue Date:	Expiration Date:
July 6, 2022	July 6, 2022	October 31, 2024
Revision Date:	Accreditation No.:	Certificate No.:
January 15, 2023	117896	L22-485-R1

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: <u>www.pjlabs.com</u>

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SICAMING México, S.A. de C.V.

Dr. Gustavo Baz No. 317, Col. Hipico Metepec, Estado de México, México. C.P. 52156 Contact Name: José Angel Felix Phone: 722-270-0239

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

Mechanical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Differential Pressure Electronic & Analytical Gauge ^{FO}	-1 245 to 3 735 Pa	0.76 Pa	Pressure Gage Druck PACE1002 Pressure Gage Alnor 560 CEM ME-020 CENAM Technical Guide
	-6 854 Pa to 6 854 Pa	0.76 Pa	Pressure Gage Druck PACE1002 Pressure Gage Additel ADT681-05-DP30-H ₂ O CEM ME-020 CENAM Technical Guide
Digital Gauges, Manometric Gauges, Transducers and Transmitters ^{FO}	0.001 psi to 200 psi (6.894 7 Pa to 1.38 MPa)	0.042 psi (0.29 kPa)	Pressure Gage Druck PACE1002 Pressure Gage Ametek CP 200 CINDG NMX-CH-003-SCFI NOM-013-SCFI CENAM Technical Guide
	0.001 psi to 500 psi (6.894 7 Pa to 3.45 MPa)	0.042 psi (0.29 kPa)	Pressure Gage Druck PACE1002 Pressure Gage Additel ADT681-02-CP500-PSI-N-X Pressure Gage Additel ADT686-05-GP500-PSI-N NMX-CH-003-SCFI NOM-013-SCFI CENAM Technical Guide
Digital and Pressure Gauges, Transducers and Transmitters (Negative/Vacuum Pressure) ^{FO}	-12 psi to 0.001 psi (-82 737 Pa to 6.894 7 Pa)	0.017 psi (0.12 kPa)	Pressure Gage Druck PACE1002 Pressure Gage Additel ADT681-02-CP500-PSI-N-X Pressure Gage Additel ADT686-05-GP500-PSI-N NOM-013-SCFI NMX-CH-003-SCFI CENAM Technical Guide
Safety Valves ^{FO}	Up to 200 psi (Up to 1.38 MPa)	0.042 psi (0.29 kPa)	Pressure Gage Druck PACE1002 Pressure Gage Ametek CP 200 CINDG NOM-093-SCFI



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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Safety Valves ^{FO}	Up to 500 psi (Up to 3.45 MPa)	0.042 psi (0.29 kPa)	Pressure Gage Druck PACE1002 Pressure Gage Additel ADT681-02-CP500-PSI-N-X Pressure Gage Additel ADT686-05-GP500-PSI-N NOM-093-SCFI

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Liquid-in-Glass	-25 °C to 125 °C	0.19 °C	Platinum Resistance
Thermometers ^{FO}			Thermometer Accumac
			Temperature Gauge
			Micro-Bath
			Fluke 7103
			NOM-011-SCFI
Indicators and Register	28 °C to 600 °C	0.11 °C	Platinum Resistance
Temperature Devices			Thermometer Accumac
with RTD Sensor ^{FO}			Temperature Gauge
			Ametek CTC-660A
	L		CEM TH-001
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			CEM TH-001
Bimetallic and Capillary	28 °C to 300 °C	0.10 °C	Platinum Resistance
Thermometer ^{FO}			Thermometer Accumac
			Temperature Gauge
			Ametek CTC-660A
			NOM-CH-70-SCFI
			CENAM Technical Guide



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Bimetallic and Capillary	-40 °C to 140 °C	0.061 °C	Platinum Resistance
Thermometer ^{FO}			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			NOM-CH-70-SCFI
			CENAM Technical Guide
Direct Reading	28 °C to 600 °C	0.12 °C	Platinum Resistance
Thermometer, Thermistors			Thermometer Accumac
and Transducer ^{FO}			Temperature Gauge
			Ametek CTC-660A
			CEM TH-001
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			CEM TH-001
Indicators Temperature	28 °C to 600 °C	0.12 °C	Platinum Resistance
with Thermocouple B			Thermometer Accumac
Sensor			Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			ASTM E220-07A
			CENAM Technical Guide
Indicators Temperature	28 °C to 600 °C	0.12 °C	Platinum Resistance
with Thermocouple E			Thermometer Accumac
Sensor ^{r0}			Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide



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Indicators Temperature	-40 °C to 140 °C	0.061 °C	Platinum Resistance
with Thermocouple E			Thermometer Accumac
Sensor ^{FO}			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			ASTM E220-07A
			CENAM Technical Guide
Indicators Temperature	28 °C to 600 °C	0.12 °C	Platinum Resistance
with Thermocouple J			Thermometer Accumac
Sensor			Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LIR-40/140
			ASIM E220-0/A
Indicators Tommenature	28 °C to 600 °C	0.12.%	Distinum Desisten as
with Thermocouple K	28 C 10 000 C	0.12 C	Thermometer A course
Sensor ^{FO}			Temperature Gauge
Sensor			Ametek CTC-660A
			ASTM F220-07A
			CENAM Technical Guide
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
	-40 0 10 140 0	0.001 C	Thermometer Accumac
			Temperature Gauge
			Kave Instruments
			LTR-40/140
			ASTM E220-07A
			CENAM Technical Guide
Indicators Temperature	-28 °C to 600 °C	0.12 °C	Platinum Resistance
with Thermocouple R			Thermometer Accumac
Sensor ^{FO}			Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide



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Thermodynamic			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Indicators Temperature	0 °C to 140 °C	0.061 °C	Platinum Resistance
with Thermocouple S			Thermometer Accumac
Sensor ^{FO}			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			ASTM E220-07A
			CENAM Technical Guide
Indicators Temperature	28 °C to 600 °C	0.12 °C	Platinum Resistance
with Thermocouple S			Thermometer Accumac
Sensor ^{FO}			Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide
	0 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			ASTM E220-07A
			CENAM Technical Guide
Indicators Temperature	28 °C to 350 °C	0.10 °C	Platinum Resistance
with Thermocouple T			Thermometer Accumac
Sensor	L L		Temperature Gauge
			Ametek CTC-660A
			ASTM E220-07A
			CENAM Technical Guide
	-40 °C to 140 °C	0.061 °C	Platinum Resistance
			Thermometer Accumac
			Temperature Gauge
			Kaye Instruments
			LTR-40/140
			ASTM E220-07A
		0.56.00	CENAM Technical Guide
Thermohygrometer	0 °C to 60 °C	0.56 °C	Humidity And Temperature
			Indicator Vaisala MI/0
			(indicador), HMP/6 (sensor)
			Incubator-retrigerator
			Nemmert IPP30plus, Climatic
			TH 007 CEM
			CENAM Technical Guida
			CENAM Technical Guide

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Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Thermohygrometer and Hygrometer ^F	10 % RH to 80 % RH	1.2 % RH	Humidity and Temperature Indicator Vaisala, MI70
Equipment with Sensor and Humidity Control ⁰	0 % RH to 100 % RH	1.2 % RH	(indicador), HMP76 (sensor) Climatic Chamber Memmert ICH110 TH-007 CEM CENAM Technical Guide

Dimensional

MEACIDED INCEDIMENT	DANCE OD NOMINAT	CALIDDATION AND	CALIDDATION
MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRA HUN AND MEASUDEMENT	CALIBRATION
QUANTITY OR GAUGE	APPROPRIATE	CAPARII ITV EXPRESSED	AND REEPENCE
	ATTROTRATE	AS AN UNCERTAINTY (±)	STANDARDS USED
Vernier Calipers ^F	0.01 mm to 300 mm	0.000 82 mm	Gauge Blocks Grade 0
			Mitutoyo, Inside Micrometer
			Checker, Depth Micro Checker
			DI-008 CEM
			CENAM Technical Guide
Outside Micrometer ^F	0.001 mm to 300 mm	0.000 90 mm	Gauge Blocks Grade 0
			Mitutoyo
			DI-005 CEM
			NMX-CH-099-IMNC
			CENAM Technical Guide
Inside Micrometer ^F	0.001 mm to 300 mm	0.000 88 mm	Gauge Blocks Grade 0
			Mitutoyo
			DI-021 CEM
			CENAM Technical Guide
Depth Micrometer ^F	0.001 mm to 300 mm	0.000 88 mm	Gauge Blocks Grade 0
			Mitutoyo
			DI-005 CEM
			CENAM Technical Guide
Dial Indicator ^F	0.001 mm to 25 mm	0.000 71 mm	Gauge Blocks Grade 0
			Mitutoyo
			DI-010 CEM
			CENAM Technical Guide



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

Mass.	Force and	Weighing	Devices
Triabb,	1 Of CC und	vi vigining	

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Mass Weight Class F1 ^F	1 mg	0.007 1 mg	Class E2 Weights Set
	2 mg	0.007 1 mg	ME-025
	5 mg	0.007 1 mg	Double Substitution
	10 mg	0.008 6 mg	CENAM Technical Guide
	20 mg	0.010 mg	
	50 mg	0.014 mg	
	100 mg	0.017 mg	
	200 mg	0.020 mg	
	500 mg	0.027 mg	
	1 g	0.034 mg	
	2 g	0.046 mg	
	5 g	0.055 mg	
	10 g	0.071 mg	
	20 g	0.086 mg	
	50 g	0.10 mg	
	100 g	0.28 mg	
	200 g	0.41 mg	
Mass Weight Class F2 ^F	1 mg	0.020 mg	Class F1 Weights Set
	2 mg	0.020 mg	ME-025
	5 mg	0.020 mg	Double Substitution
	10 mg	0.027 mg	CENAM Technical Guide
	20 mg	0.033 mg	
	50 mg	0.040 mg	
	100 mg	0.053 mg	
	200 mg	0.067 mg	
	500 mg	0.083 mg	
	1 g	0.10 mg	
	2 g	0.14 mg	
	5 g	0.17 mg	
	10 g	0.20 mg	
	20 g	0.27 mg	
	50 g	0.33 mg	1



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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 OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED		
Mass Weight Class F2 ^F	100 g	0.55 mg	Class F1 Weights Set		
	200 g	1.0 mg	ME-025		
	500 g	2.7 mg	CENAM Technical Guide		
	1 kg	0.055 mg	CENAM Technical Guide		
	2 kg	0.010 mg			
	5 kg	0.034 g			
	10 kg	0.055 g			
	20 kg	0.10 g			
Mass Weight Class M ^F	1 mg	0.067 mg			
	2 mg	0.067 mg			
	5 mg	0.067 mg			
	10 mg	0.083 mg			
	20 mg	0.10 mg			
	50 mg	0.13 mg			
	100 mg	0.17 mg			
	200 mg	0.20 mg			
	500 mg	0.27 mg			
	1 g	0.33 mg			
	2 g	0.40 mg			
	5 g	0.50 mg			
	10 g	0.67 mg			
	20 g	0.83 mg			
	50 g	1.0 mg			
	100 g	1.7 mg			
	200 g	3.3 mg			
	500 g	8.3 mg			
	1 kg	0.017 g			
	2 kg	0.041 g			
	5 kg	0.086 g			
	10 kg	0.17 g			
	20 kg	0.41 g			



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Mass Weight Class M2 ^F	100 mg	0.53 mg	Class F1 Weights Set ME-025 Double Substitution CENAM Technical Guide
	200 mg	0.67 mg	
	500 mg	0.83 mg	
	1 g	1.0 mg	
	2 g	1.3 mg	
	5 g	1.7 mg	
	10 g	2.0 mg	
	20 g	2.7 mg	
	50 g	3.3 mg	
	100 g	5.3 mg	
	200 g	10 mg	
	500 g	27 mg	
	1 kg	0.055 mg	
	2 kg	0.10 g	
	5 kg	0.27 g	
	10 kg	0.53 g	
	20 kg	1.0 g	
Mass Weight Class M3 ^F	1 g	3.3 mg	
	2 g	4.0 mg	
	5 g	5.3 mg	
	10 g	6.7 mg	
	20 g	8.3 mg	
	50 g	10 mg	
	100 g	17 mg	
	200 g	33 mg	
	500 g	86 mg	
	1 kg	0.17 g	
	2 kg	0.33 g	
	5 kg	0.83 g	
	10 kg	1.7 g	
	20 kg	3.3 g	



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

Mass, Force and weighing Devices					
MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRATION AND	CALIBRATION		
QUANTITY OR GAUGE	DEVICE SIZE AS	MEASUREMENT	EQUIPMENT		
	APPROPRIATE	CAPABILITY EXPRESSED	AND REFERENCE		
		AS AN UNCERTAINTY (±)	STANDARDS USED		
Low and Medium Range	1 mg to 500 g	1.2 mg	Class E2 Weights Set		
Weighing Instruments ^{FO}	(Res.=0.01 mg)		CENAM Technical Guide		
	1 g to 20 kg	0.71 g	Class F1 Weights Set		
	(Res.=0.001 kg)		CENAM Technical Guide		
	20 kg to 500 kg	17 g	OIML Class M1		
	(Res=0.01 kg)		CENAM Technical Guide		

Mass, Force and Weighing Devices

- 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.