



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

**Grupo Comsurlab, S.A. de C.V.**  
*Av. José Pagés Llergo # 345, Col. Nueva Villahermosa  
Villahermosa, Tabasco, México. C.P. 86070*

*and hereby declares that the Organization is accredited in accordance with  
the recognized International Standard:*

**ISO/IEC 17025:2017**

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

***Thermodynamic, Mass, Force, and Weighing Devices, Mechanical, Fluid  
Quantities, Chemical, Time and Frequency, Optical, Electrical and Dimensional  
Calibration***  
*(As detailed in the supplement)*

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

*Initial Accreditation Date:*

*Issue Date:*

*Expiration Date:*

September 11, 2011

January 17, 2026

February 29, 2028

*Accreditation No.:*

*Certificate No.:*

69078

L26-44

Tracy Szerszen  
President

*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.pjlab.com](http://www.pjlab.com)*

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



# Certificate of Accreditation: Supplement

## Grupo Comsurlab, S.A. de C.V.

Av. José Pagés Llergo # 345, Col. Nueva Villahermosa  
Villahermosa, Tabasco, México. C.P. 86070

Contact Name: Claudia De la Fuente Phone: 993-354-8521

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Thermodynamic	Bimetallic Thermometers	-25 °C to 150 °C	0.3 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Bimetallic Thermometers	150 °C to 600 °C	0.3 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type J	-25 °C to 150 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type J	150 °C to 895 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type K	-25 °C to 150 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type K	150 °C to 895 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type T	-25 °C to 150 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Thermocouple Type T	150 °C to 400 °C	0.085 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 Internal Procedure	F1, F3	F, O
Thermodynamic	Glass Thermometers	-25 °C to 150 °C	3 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Glass Thermometers	150 °C to 400 °C	0.3 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Temperature Controller used with RTD Pt 385, 100 $\Omega$	0 °C to 1 000 °C	0.33 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 (Internal Procedure)	F1, F3	F, O
Thermodynamic	Temperature Controller used with RTD Pt 385, 200 $\Omega$	0 °C to 1 000 °C	0.2 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 (Internal Procedure)	F1, F3	F, O



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Thermodynamic	Temperature Controller used with RTD Pt 385, 500 $\Omega$	0 °C to 1 000 °C	0.33 °C	Sensor RTD Pt-100 Sensor RTD Pt-10 Hart	GC-PR-L007 (Internal Procedure)	F1, F3	F, O
Thermodynamic	Temperature Controller used with RTD Pt 385, 1 000 $\Omega$	0 °C to 1 000 °C	0.2 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 (Internal Procedure)	F1, F3	F, O
Thermodynamic	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 $\Omega$	25 °C to 750 °C	1.5 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 (Internal Procedure)	F1, F3	F, O
Thermodynamic	Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 $\Omega$ , JIS 100 $\Omega$	-25 °C to 750 °C	1.5 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	GC-PR-L007 (Internal Procedure)	F1, F3	F, O
Thermodynamic	Dry Well	0 °C to 800 °C	0.1 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Oven	30 °C to 500 °C	1.7 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	CENAM Technical Guide	F1, F2	F, O
Thermodynamic	Thermometers of Radiation	50 °C to 450 °C	1 °C	Sensor RTD Pt-100 Sensor RTD Pt-10	CENAM Technical Guide	F1, F2	F
Thermodynamic	Thermo Balance	40 °C to 200 °C	2 °C	Thermometer bimetallic 40 °C to 400 °C	GC-PR-L021 (Internal Procedure)	F1, F3	O
Thermodynamic	Thermal Bath	0 °C to 100 °C	1.7 °C	Sensor RTD Pt-100	CENAM Technical Guide	F1, F2	F, O



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Thermodynamic	Hygrometer	30 % to 90 %	1.2 %	Humidity and Temperature Meter	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	1 mg	0.005 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	2 mg	0.005 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	5 mg	0.005 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	10 mg	0.007 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	20 mg	0.009 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	50 mg	0.009 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	100 mg	0.009 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	200 mg	0.009 9 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class F1	500 mg	0.002 5 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	1 g	0.003 2 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	2 g	0.052 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	5 g	0.065 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	10 g	0.082 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	20 g	0.039 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	50 g	0.99 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	100 g	0.2 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class F1	200 g	0.4 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	500 g	0.8 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	1 kg	1.7 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F1	2 kg	3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	1 mg	0.019 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	2 mg	0.019 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	5 mg	0.019 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	10 mg	0.025 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class F2	20 mg	0.032 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	50 mg	0.039 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	100 mg	0.052 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	200 mg	0.065 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	500 mg	0.082 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	1 g	0.99 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	2 g	0.13 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	5 g	0.16 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class F2	10 g	0.19 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	20 g	0.26 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	50 g	0.33 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	100 g	0.53 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	200 g	1 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	500 g	2.6 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	1 kg	5.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class F2	2 kg	10 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class M1	1 mg	0.06 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	2 mg	0.06 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	5 mg	0.06 mg	Weight Set 1 mg to 2 kg Mass Class E2,	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	10 mg	0.08 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	20 mg	0.032 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	50 mg	0.052 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	100 mg	0.15 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	200 mg	0.19 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class M1	500 mg	0.25 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	1 g	0.32 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	2 g	0.39 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	5 g	0.49 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	10 g	0.65 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	20 g	0.82 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	50 g	0.99 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	100 g	1.6 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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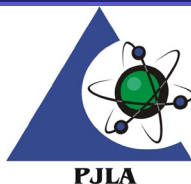
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Mass, Force and Weighing Devices	Weight Set Class M1	200 g	3.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	500 g	8.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	1 kg	17 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	2 kg	33 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	5 kg	0.12 g	Weight Class F1 5 kg.	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	10 kg	0.12 g	Weight Class F1 10 kg	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M1	20 kg	0.77 g	Weight Class F1 20 kg.	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	100 mg	0.52 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class M2	200 mg	0.65 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	500 mg	0.82 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	1 g	0.99 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	2 g	1.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	5 g	1.7 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	10 g	2 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	20 g	2.6 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	50 g	3.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class M2	100 g	5.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	200 g	10 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	500 g	27 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	1 kg	53 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M2	2 kg	100 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	1 g	3.3 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	2 g	4 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	5 g	5 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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Mass, Force and Weighing Devices	Weight Set Class M3	10 g	6.6 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	20 g	8 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	50 g	10 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	100 g	17 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	200 g	33 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	500 g	83 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	1 kg	170 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Weight Set Class M3	2 kg	340 mg	Weight Set 1 mg to 2 kg Mass Class E2	ABBA Method CENAM Technical Guide	F1, F2	F



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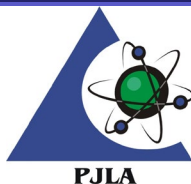
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Mass, Force and Weighing Devices	Density (Hydrometer)	0.4 g/cm <sup>3</sup> to 4 g/cm <sup>3</sup>	0.031 g/cm <sup>3</sup>	Analytic Balance 210 g	Method Cuckow CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Torsion Viscometer Rotatority	25 °Deflexion to 254 °Deflexion (10 g to 100 g)	4.5 Dina/°Deflexion	Mass 10 g to 200 g	GC-PR-L019 Internal Procedure	F1, F3	F, O
Mass, Force and Weighing Devices	Balances	0.001 g to 81 g (Res.= 0.1 mg)	(1.25 x 10 <sup>-4</sup> + 3.64 x 10 <sup>-6</sup> Wt) g	OIML E2 Analytical Weight Set 1 mg to 2 000 g	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	81.001 g to 310 g (Res.= 0.1 mg)	(3 x 10 <sup>-4</sup> + 1.1 x 10 <sup>-6</sup> Wt) g	OIML E2 Analytical Weight Set 1 mg to 2 000	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	310.001 g to 610 g (Res.= 1 mg)	(1.5 x 10 <sup>-3</sup> + 7.85 x 10 <sup>-7</sup> Wt) g	OIML E2 Analytical Weight Set 1 mg to 2 000 g	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	610.01 g to 6 100 g (Res.= 10 mg)	(1.61 x 10 <sup>-2</sup> + 5.81 x 10 <sup>-7</sup> Wt) g	OIML E2 Analytical Weight Set 1 mg to 2 000 g	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	5 kg to 200 kg (Res.= 10 g)	0.016 kg	Weight Set Class M1	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	200 kg to 500 kg (Res.= 0.1 kg)	0.039 kg	Weight Set Class M1	CENAM Technical Guide	F1, F2	F
Mass, Force and Weighing Devices	Balances	500 kg to 1 000 kg (Res.= 0.1 kg)	0.039 kg	Weight Set Class M1	CENAM Technical Guide	F1, F2	F
Mechanical	Torque Meter	2.5 Nm to 1 695 Nm	1 % of reading	Static Torque Transducer	CENAM Technical Guide	F1, F2	F



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Mechanical	Pressure Gauges	1 psi to 100 psi	2 % of reading	Digital Pressure Gauge 500 psi, 2 000 psi and 10 000 psi	CENAM Guide Technical	F1, F2	F, O
Mechanical	Pressure Gauges	100 psi to 10 000 psi	0.3 % of reading	Digital Pressure Gauge 500 psi, 2 000 psi and 10 000 psi	CENAM Guide Technical	F1, F2	F, O
Mechanical	Pressure Gauges and Transducer	3 000 psi to 30 000 psi	0.25 % of reading	Digital Pressure Gauge 40 000 psi	CENAM Guide Technical	F1, F2	F, O
Mechanical	Pressure Gauges and Transducer	30 000 psi to 60 000 psi	0.25 % of reading	Digital Pressure Gauge 40 000 psi	CENAM Technical Guide	F1, F2	F, O
Mechanical	Vacuum Gauges	-10 psi to -1 psi	0.25 % of reading	Digital Pressure Gage 0 psi to 14 psi	CENAM Technical Guide	F1, F2	F, O
Mechanical	Rotational Viscometer (Dynamic Viscosity)	100 mPa/s	2 mPa/s	Fluid of Calibration Certificate	GC-PR-L010 Internal Procedure	F1, F3	F, O
Mechanical	Rotational Viscometer (Dynamic Viscosity)	500 mars	0.5 mPa.s	Fluid of Calibration Certificate	GC-PR-L010 Internal Procedure	F1, F3	F, O
Mechanical	Rotational Viscometer (Dynamic Viscosity)	1 100 mPa.s	2.5 mPa.s	Fluid of Calibration Certificate	GC-PR-L010 Internal Procedure	F1, F3	F, O
Mechanical	Rotational Viscometer (Dynamic Viscosity)	3 000 mPa.s	5 mPa.s	Fluid of Calibration Certificate	GC-PR-L010 Internal Procedure	F1, F3	F, O
Mechanical	Mud Balance Density (Fixed Points)	1 sp	0.03 sp	Sensor RTD Pt-100 Weight Set 1 mg to 2 kg	GC-PR-L013 Internal Procedure	F1, F3	F



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Mechanical	Mud Balance Density (Fixed Points)	2 sp	0.023 sp	Sensor RTD Pt-100 Weight Set 1 mg to 2 kg	GC-PR-L013 Internal Procedure	F1, F3	F
Mechanical	Mud Balance Density (Fixed Points)	1.8 sp	0.01 sp	Weight Mass Set	GC-PR-L013 Internal Procedure	F1, F3	F
Mechanical	Mud Balance Density (Fixed Points)	2.3 sp	0.01 sp	Weight Mass Set	GC-PR-L013 Internal Procedure	F1, F3	F
Fluid Quantities	Micropipettes	1 $\mu$ L to 99 $\mu$ L	0.1 $\mu$ L	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F, O
Fluid Quantities	Micropipettes	100 $\mu$ L to 1 000 $\mu$ L	1.5 $\mu$ L	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	0.5 mL	0.006 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Pipettes	1 mL	0.002 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	2 mL	0.002 6 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	5 mL	0.055 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	10 mL	0.003 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	20 mL	0.004 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Pipettes	25 mL	0.005 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	50 mL	0.005 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Pipettes	100 mL	0.01 mL	Balance 0.000 01 g to 81 g (Res.= 0.01 mg) Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	1 mL	0.000 45 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	2 mL	0.000 46 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	5 mL	0.004 6 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	10 mL	0.004 6 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	20 mL	0.006 8 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Burettes	25 mL	0.007 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	50 mL	0.01 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Burettes	100 mL	0.02 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	1 mL	0.006 5 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	2 mL	0.006 6 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	5 mL	0.006 5 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	10 mL	0.015 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	20 mL	0.03 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	25 mL	0.04 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	50 mL	0.06 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	100 mL	0.11 mL	Balance 81g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Cylinders	200 mL	0.3 mL	Balance 81 g to 210 g (Res.= 0.1 mg)	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Flask	500 mL	0.38 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	1 000 mL	1.8 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	2 000 mL	3 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	1 mL	0.007 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	2 mL	0.001 4 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	5 mL	0.003 5 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	10 mL	0.005 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	20 mL	0.004 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Flask	25 mL	0.037 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	50 mL	0.007 5 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	100 mL	0.011 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	500 mL	0.05 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	1 000 mL	0.1 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask	2 000 mL	0.2 mL	Balance 210.01 g to 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Flask Le Chatelier	24 mL	0.1 mL	Balance 4 100 g (Res.= 0.01 g)	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Tube Centrifuge	0.05 mL	0.015 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Tube Centrifuge	0.2 mL to 0.5 mL	0.029 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Tube Centrifuge	1 mL to 3 mL	0.057 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Tube Centrifuge	5 mL	0.11 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F
Fluid Quantities	Tube Centrifuge	10 mL	0.29 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F



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Fluid Quantities	Tube Centrifuge	25 mL to 100 mL	0.57 mL	Balance Analytics 0 g to 220 g	CENAM Technical Guide	F1, F2	F
Chemical	pH Meter	4.005 pH	0.02 pH	Buffer Solution pH 4, pH 7 and pH 10 Traceable Through NIST	GC-PR-L020 (Internal Procedure)	F1, F3	F, O
Chemical	pH Meter	7 pH	0.02 pH	Buffer Solution pH 4, pH 7 and pH 10 Traceable Through NIST	GC-PR-L020 (Internal Procedure)	F1, F3	F, O
Chemical	pH Meter	10.012 pH	0.02 pH	Buffer Solution pH 4, pH 7 and pH 10 Traceable Through NIST	GC-PR-L020 (Internal Procedure)	F1, F3	F, O
Time & Frequency	Tachometer, Centrifuge, Rotational Viscometer, Mixer	0.05 Hz to 1 000 Hz	$3.33 \times 10^{-3}$ Hz	Arbitrary/ Function Generator and Digital Optical & Contact Tachometer	GC-PR-L012 (Internal Procedure)	F1, F3	F
Time & Frequency	Stopwatch	10 s	0.5 s	Digital Chronometer	NIST Handbook 105-5	F1, F2	F, O
Time & Frequency	Stopwatch	60 s	0.5 s	Digital Chronometer	NIST Handbook 105-5	F1, F2	F, O
Time & Frequency	Stopwatch	120 s	0.5 s	Digital Chronometer	NIST Handbook 105-5	F1, F2	F, O
Time & Frequency	Stopwatch	3 600 s	0.5 s	Digital Chronometer	NIST Handbook 105-5	F1, F2	F, O



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Time & Frequency	Stopwatch	86 400 s	0.72 s	Digital Chronometer	NIST Handbook 105-5	F1, F2	F, O
Time & Frequency	Equipment to Measure Frequency	1 Hz to 200 Hz	0.005 7 Hz	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Time & Frequency	Equipment to Measure Frequency	200 Hz to 2000 Hz	0.057 Hz	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Time & Frequency	Equipment to Measure Frequency	2 000 Hz to 20 kHz	0.000 57 kHz	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Time & Frequency	Equipment to Measure Frequency	20 kHz to 100 kHz	0.005 7 kHz	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Optical	Spectrophotometer Transmittance Density	0.25 % OD to 4 % OD	3 % of reading	Opacity Filter (KV450/3)	Technical Guide UV-Vis	F1, F2	F
Optical	$\alpha$ Absorbance	0.297 absorbance to 1.409 absorbance	3 % of reading	Density, Neutral (NG9/1, NG5/2, NG11/2)	Technical Guide UV-Vis	F1, F2	F
Optical	$\tau$ Transmittance	1 % to 95 %	0.27 % of reading	Filter of Oxide, Holmium (Ho)	Technical Guide UV-Vis	F1, F2	F
Optical	Wavelength	359 n•m to 809 n•m	2 n•m	Filter of Oxide Didymium (BG20/2) UV-Vis	CENAM Technical Guide	F1, F2	F
Electrical	Standard Emulsion Stability Tester	10 M $\Omega$	25 $\Omega$	Multimeter	GC-PR-L016 (Internal Procedure)	F1, F3	F, O
Electrical	Standard Emulsion Stability Tester	32 M $\Omega$	1.6 M $\Omega$	Multimeter	GC-PR-L016 (Internal Procedure)	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	Up to 104 mV	11 $\mu$ V	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F



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Villahermosa, Tabasco, México. C.P. 86070

Contact Name: Claudia De la Fuente Phone: 993-354-8521

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY ( $\pm$ ) <sup>1</sup>	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure DC Voltage	0.104 V to 1.04 V	31 $\mu$ V	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Voltage	1.04 V to 10.4 V	1.5 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Voltage	10.4 V to 104 V	15 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Voltage	104 V to 1 020 V	640 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	Up to 104 $\mu$ A	0.052 $\mu$ A	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	0.104 mA to 1.04 mA	0.001 1 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	1.04 mA to 10.4 mA	0.018 A	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	10.4 mA to 104 mA	0.035 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	104 m to 1 040 mA	0.06 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	1.4 A to 10.2 A	1.8 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure DC Current	10.2 A to 500 A	2 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 20 kHz)	Up to 104 mV	0.001 1 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F



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Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 20 kHz)	0.104 V to 1.04 V	0.011 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 20 kHz)	1.04 V to 10.4 V	0.11 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	10.4 V to 104 V	1.1 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Voltage (@ 40 Hz to 1 kHz)	104 V to 700 V	11 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	10.4 $\mu$ A to 104 $\mu$ A	0.001 1 $\mu$ A	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	0.104 mA to 1 mA	0.015 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	1.04 mA to 10.4 mA	0.15 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	10.4 mA to 104 mA	1 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F



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Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	104 mA to 1 040 mA	10 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	E Equipment to Measure AC Current (@ 10 Hz to 2 kHz)	1.04 A to 10.4 A	0.01 A	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure AC Current (@ 30 Hz to 60 Hz)	10 A to 500 A	1 A	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	0 $\Omega$ to 10 $\Omega$	0.57 m $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	10.1 $\Omega$ to 100 $\Omega$	5.7 m $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	101 $\Omega$ to 1 k $\Omega$	57 m $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	1.01 k $\Omega$ to 10 k $\Omega$	0.57 $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	10.1 k $\Omega$ to 100 k $\Omega$	5.7 $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	101 k $\Omega$ to 1 M $\Omega$	57 $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	1.01 M $\Omega$ to 10 M $\Omega$	570 $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	10 M $\Omega$ to 32 M $\Omega$	570 $\Omega$	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F



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Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	1 k $\Omega$	0.000 5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	10 k $\Omega$	0.000 5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	100 k $\Omega$	0.000 5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	1 M $\Omega$	0.002 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	10 M $\Omega$	0.54 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	100 M $\Omega$	0.5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance	1 G $\Omega$	0.5 % of reading	Multimeter Calibrator High Resistance	CENAM Technical Guide	F1, F2	F



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	((@ Up to 10 kV) (Fixed Point)			Standard VRS-100-1K-BP-10KV			
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	10 G $\Omega$	0.5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	100 G $\Omega$	0.5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Resistance (@ Up to 10 kV) (Fixed Point)	1 T $\Omega$	0.5 % of reading	Multimeter Calibrator High Resistance Standard VRS-100-1K-BP-10KV	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Output DC Voltage	0.001 mV to 100 mV	0.57 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Output DC Voltage	0.1 V to 1 V	5.7 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Output DC Voltage	1 V to 10 V	57 mV	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Output DC Voltage	10 V to 30 V	0.57 V	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Output DC Current	0.01 mA to 30 mA	0.005 7 mA	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	600 °C to 1 800 °C	0.35 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-200 °C to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-200 °C to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	-200 °C to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	-200 °C to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F



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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 °C to 1 000 °C	0.34 °C	Multimeter Calibrator Electrical Simulation of Thermocouple Output	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Capacitance	1 nF to 10 nF	0.000 057 nF	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Capacitance	10 nF to 100 nF	0.005 7 nF	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Electrical	Equipment to Measure Capacitance	100 nF to 1 $\mu$ F	0.057 nF	Multimeter Calibrator	CENAM Technical Guide	F1, F2	F
Dimensional	Caliper	5 mm to 600 mm	12 $\mu$ m	Gauge Block Set Grade 0,	CENAM Technical Guide	F1, F2	F, O
Dimensional	Caliper	0.19 in to 24 in	0.000 47 in	Gauge Block Set Grade 0,	CENAM Technical Guide	F1, F2	F, O
Dimensional	Flexometer and Ruler	0.05 m to 5 m	1.3 mm	Distance Meter	CEM DI-011	F1, F2	F

- The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty 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 measurement uncertainty included on this scope 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.



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2. The laboratory's range of calibration capability for all disciplines for which it is 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. Location of activity:

**Location  
Code**

**Location**

F  
O

Conformity assessment activity is performed at the CAB's fixed facility

Conformity assessment activity is performed onsite at the CAB's customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratory's 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 laboratory's fixed location.

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

6. Flex Codes

F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.

F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.

F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope

F3: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope

F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.