



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Asesoria Industrial en Mantenimiento y Calibracion TLX.  
(AIMEC) / Ignacio Grande Morales  
Calle Adolfo López Mateos # 1-A, Col. Ocotlán  
Tlaxcala, Tlaxcala. México. C.P. 90100***

*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, Electrical,  
Dimensional, Time and Frequency and Chemical 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:*

April 12, 2013

May 02, 2025

June 30, 2027

*Accreditation No.:*

*Certificate No.:*

75284

L25-339

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

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



# Certificate of Accreditation: Supplement

## Asesoría Industrial en Mantenimiento y Calibración TLX. (AIMEC) / Ignacio Grande Morales

Calle Adolfo López Mateos # 1-A, Col. Ocotlán

Tlaxcala, Tlaxcala. México. C.P. 90100

Contact Name: Ignacio Grande Morales Phone: (52) 246-462-3510

*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) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED   | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED      | LOCATION OF ACTIVITY |
|----------------------|--|---|--|--|--|----------------------|
| Thermodynamic        | Liquids in Glass Thermometers                                  | 0 °C to 250 °C                              | 0.24 °C  | A Stirred Liquid Bath<br>Thermometer Digital<br>Luff C110<br>Thermometer Digital AΣA<br>T100-250                         | Internal Procedure ITS-90                              | F, O                 |
| Thermodynamic        | Liquids in Glass Thermometers                                  | -10 °C to 250 °C                            | 0.12 °C  | A Stirred Liquid Bath<br>Thermometer Digital AΣA<br>T100-250   | CENAM Technical Guide and<br>Internal Procedure ITS-90 | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and Sensor<br>RTD Pt 385, 100 | -5 °C to 250 °C                             | 0.29 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Thermometer Digital AΣA  | CENAM Technical Guide and Internal Procedure<br>ITS-90 | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and Sensor<br>RTD Pt 385, 100 | 200 °C to 250 °C                            | 0.36 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Thermometer Digital AΣA  | CENAM Technical Guide and Internal Procedure<br>ITS-90 | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and<br>Thermocouple Type J    | 0 °C to 400 °C                              | 0.33 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm<br>3216i | CENAM Technical Guide and Internal Procedure<br>ITS-90 | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and<br>Thermocouple Type J    | 400 °C to 700 °C                            | 0.54 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm<br>3216i | CENAM Technical Guide and Internal Procedure<br>ITS-90 | F, O                 |



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| Thermodynamic        | Industrial Thermometer Indicator and Thermocouple Type K | 0 °C to 300 °C                              | 0.41 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm 3216i | CENAM Technical Guide and Internal Procedure ITS-90                    | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and Thermocouple Type K | 300 °C to 700 °C                            | 0.58 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm 3216i | CENAM Technical Guide and Internal Procedure ITS-90                    | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and Thermocouple Type K | 700 °C to 1 200 °C                          | 0.58 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm 3216i | CENAM Technical Guide and Internal Procedure ITS-90                    | F, O                 |
| Thermodynamic        | Industrial Thermometer Indicator and Thermocouple Type T | 0 °C to 400 °C                              | 0.68 °C  | Dry Well AΣA B125X<br>Dry Well Ametek ETC 400A /<br>Process Calibrator 701 / 725<br>Muffle Controller Eurotherm 3216i | CENAM Technical Guide and Internal Procedure ITS-90                    | F, O                 |
| Thermodynamic        | Bi-Metal Thermometers                                    | -5 °C to 250 °C                             | 0.35 °C  | Dry Well AΣA B125X<br>A Stirred Liquid Bath<br>Thermometer Digital<br>Luff C110                                       | CENAM Technical Guide and Internal Procedure ITS-90<br>NMX-CH-140-IMNC | F, O                 |



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| Thermodynamic                    | Bi-Metal Thermometers                  | 200 °C to 250 °C                            | 0.46 °C  | Dry Well AΣA B125X<br>A Stirred Liquid Bath<br>Thermometer Digital<br>Luff C110  | CENAM Technical Guide and Internal Procedure<br>ITS-90<br>NMX-CH-140-IMNC | F, O                 |
| Thermodynamic                    | Hygrometers                            | 10 % RH to 90 % RH                          | 1.2 % RH   | Capacitance Hygrometers<br>Vaisala MI70 Delta Ohm<br>HD11 Standard Salts Cal, Kit<br>Extech Rh300 Standard Salts Cal, Humidity Chamber | ASTM 104-85   | F                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 200 g<br>(Res.= 0.2 mg)              | 0.63 mg  | Mass Weights Class F1 and<br>Mass Class E2   | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 10 g<br>(Res.= 0.1 mg)               | 0.36 mg  | Mass Weights Class F1 and<br>Mass Class E2   | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 100 g<br>(Res.= 0.2 mg)              | 0.73 mg  | Mass Weights Class F1 and<br>Mass Class E2   | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 500 g<br>(Res.= 0.5 mg)              | 1.8 mg   | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 1 000 g<br>(Res.= 2 mg)              | 5.2 mg   | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 2 000 g<br>(Res.= 5 mg)              | 12 mg  | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 g to 5 000 g<br>(Res.= 10 mg)             | 26 mg  | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 000 g to 20 000 g<br>(Res.= 500 mg)       | 0.12 g   | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 200 g to 1 000 g<br>(Res.= 2 mg)            | 5.2 mg   | Mass Weights Class F1  | OIML R-76   | O                    |



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| Mass, Force and Weighing Devices | Balance                                | 200 g to 1 000 g<br>(Res.= 2 mg)            | 5.2 mg   | Mass Weights Class F1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Balance                                | 1 000 g to 10 000 g<br>(Res.= 0.1 mg)       | 52 mg  | Mass Weights Class F2  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Scales                                 | 5 kg to 150 kg<br>(Res.= 5 g)               | 5.3 g  | Mass Weights Class M1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Scales                                 | 5 kg to 200 kg<br>(Res.= 10 g)              | 16 g   | Mass Weights Class M1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Scales                                 | 5 kg to 500 Kg<br>(Res.= 20 g)              | 22 g   | Mass Weights Class M1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Scales                                 | 5 kg to 1 000 Kg<br>(Res.= 50 g)            | 80 g   | Mass Weights Class M1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Scales                                 | 200 kg to 1 000 Kg<br>(Res.= 50 g)          | 70 g   | Mass Weights Class M1  | OIML R-76   | O                    |
| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 20 N to 200 N<br>(Res.= 0.02 N)             | 0.2 % of reading   | Load Cells Omega Dyne Inc.<br>Mod: LC-101-25<br>Mass F1                              | NMX-CH-7500-1-IMNC                                | O                    |
| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 200 N to 2 000 N<br>(Res.= 0.1 N)           | 0.2 % of reading   | Load Cells<br>Cell: H3G 500 kg<br>Brand: Imada<br>Model: DPZS<br>Cells: H3G 1 000 kg | NMX-CH-7500-1-IMNC                                | O                    |
| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 2 000 N to 10 000 N<br>(Res.= 10 N)         | 0.5 % of reading   | Load Cells<br>Cell: H3G 500 kg<br>Brand: Imada<br>Model: DPZS<br>Cells: H3G 1 000 kg | NMX-CH-7500-1-IMNC                                | O                    |



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| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 0.2 N to 10 N                               | 0.2 % of reading   | Mass F1   | NMX-CH-7500-1-IMNC<br>CENAM Technical Guide       | O                    |
| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 9.8 N to 98.1 N                             | 0.3 % of reading   | Mass F1   | NMX-CH-7500-1-IMNC<br>CENAM Technical Guide       | O                    |
| Mass, Force and Weighing Devices | Dynamometer, Universal Machine         | 49 N to 5 000 N                             | 0.4 % of reading   | Mass M1 Load Cells<br>Model: H3G 500 kg Indicator<br>Brand: Radwag<br>Model: PUE C731 | NMX-CH-7500-1-IMNC<br>CENAM Technical Guide       | O                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 2 mg  | 0.006 6 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 10 mg                                       | 0.008 3 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 20 mg                                       | 0.01 mg  | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 50 mg                                       | 0.013 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 100 mg                                      | 0.016 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 200 mg                                      | 0.02 mg  | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 500 mg                                      | 0.026 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 1 g   | 0.033 mg   | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 2 g   | 0.04 mg  | OIML R 111<br>Class E2 Mass Weights   | NOM-038-SCFI                                      | F                    |



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| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 5 g   | 0.053 mg   | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 10 g  | 0.066 mg   | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 20 g  | 0.083 mg   | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 50 g  | 0.1 mg   | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 100 g                                       | 0.16 mg  | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 200 g                                       | 0.33 mg  | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 500 g                                       | 0.83 mg  | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F1, F2, M1                     | 1 000 g                                     | 1.6 mg   | OIML R 111<br>Class E2 Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F2, M1                         | 2 kg  | 10 mg  | OIML R 111 Class F1<br>Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F2, M1                         | 5 kg  | 27 mg  | OIML R 111 Class F1<br>Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F2, M1                         | 10 kg                                       | 54 mg  | OIML R 111 Class F1<br>Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mass, Force and Weighing Devices | Weights F2, M1                         | 20 kg                                       | 100 mg   | OIML R 111 Class F1<br>Mass Weights                | NOM-038-SCFI                                      | F                    |
| Mechanical                       | Pressures Gauges                       | 3 435.86 kPa to 34 374.87 kPa               | 0.3 % of reading   | Fluke700P30 / Fluke 701                            | CENAM Technical Guide<br>NMX-CH-013-SCFI          | O                    |



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| Mechanical           | Pressures Gauges   | 688.79 kPa to 6 894.07 kPa                  | 4.9 kPa  | Pressure Gage Veris   | CENAM Technical Guide<br>NMX-CH-013-SCFI          | O                    |
| Mechanical           | Pressures Gauges   | 206.84 kPa to 2 068.84 KPa                  | 0.3 % of reading   | Crystal XP2i  | CENAM Technical Guide<br>NMX-CH-013-SCFI          | O                    |
| Mechanical           | Pressures Gauges   | 20.68 kPa to 206.84 KPa                     | 0.4 % of reading   | Fluke700P0 /<br>Fluke 701   | CENAM Technical Guide<br>NMX-CH-013-SCFI          | O                    |
| Mechanical           | Vacuum Meters<br>(Manovacuum Meters)                           | 76.2 mmHg to 762 mmHg                       | 0.6 % of reading   | Fluke700P05 / Fluke 701   | CENAM Technical Guide<br>NMX-CH-013-SCFI          | O                    |
| Mechanical           | Vacuum Meters<br>(Manovacuum Meters)                           | -68.95 KPa to -6.89 kPa                     | 0.6 % of reading   | Crystal XP2i  | CENAM Technical Guide<br>NMX-CH-013-SCFI          |                      |
| Mechanical           | Piston-Operated<br>Pipettes and<br>Dispensers<br>Micropipettes | 10 $\mu$ L to 1 000 $\mu$ L                 | 0.4 % of reading   | Analytical Balance Sartorius<br>(Res.= 0.1 mg)<br>Thermometer Fluke 51 II | NMX-CH-20461<br>ISO 4787                          | F                    |
| Mechanical           | Volumetric<br>Instruments<br>(Pipettes, Burettes)              | 0.1 mL to 10 mL                             | 0.3 % of reading   | Analytical Balance Sartorius<br>(Res.= 0.1 mg)<br>Thermometer Fluke 51 II | NMX-CH-20461<br>ISO 4787                          | F                    |
| Mechanical           | Volumetric<br>Instruments<br>(Pipettes, Burettes)              | 10 mL to 100 mL                             | 0.3 % of reading   | Analytical Balance Sartorius<br>(Res.= 0.1 mg)<br>Thermometer Fluke 51 II | NMX-CH-20461<br>ISO 4787                          | F                    |



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| Mechanical           | Volumetric Instruments (Volumetric Flasks, Graduated Cylinders) | 1 mL to 100 mL                              | 0.3 % of reading   | Analytical Balance Sartorius (Res.= 0.1 mg)<br>Analytical Balance and (Res.= 1 mg)<br>Analytical Balance Shimadzu (Res.= 0.01 g)<br>Thermometer Fluke 51 II | NMX-CH-20461<br>ISO 4787                          | F                    |
| Mechanical           | Volumetric Instruments (Volumetric Flasks, Graduated Cylinders) | 100 mL to 5 000 mL                          | 0.7 % of reading   | Analytical Balance Sartorius (Res.= 0.1 mg)<br>Analytical Balance and (Res.= 1 mg)<br>Analytical Balance Shimadzu (Res.= 0.01 g)<br>Thermometer Fluke 51 II | NMX-CH-20461<br>ISO 4787                          | F                    |
| Mechanical           | Volumetric Measurement (Metallic Graduated Neck for Liquids)    | 1 000 mL to 20 000 mL                       | 0.7 % of reading   | Balance Radwag<br>Balance Shimadzu (Res.= 0.1 mg)<br>Thermometer Fluke 51 II  | NOM-042-SCFI<br>ISO 4787                          | F                    |
| Mechanical           | Security Valves Relief Point                                    | 3 psi to 300 psi                            | 0.28 psi   | Digital Pressure Gage<br>Crystal XP2i   | NOM-093-SCFI                                      | F, O                 |
| Mechanical           | Torsional Torque Tools (Clockwise and Counterclockwise)         | 0.2 N·m to 1.9 N·m                          | 0.003 N·m  | Torque Transducer<br>Mountz 0500 /  | NMX-CH-6789-IMNC                                  | F                    |
| Mechanical           | Torsional Torque Tools (Clockwise and Counterclockwise)         | 10 N·m to 50 N·m                            | 0.18 N·m   | Torque Tools: Tohnichi<br>CEM50N3X12D-G   | NMX-CH-6789-IMNC                                  | F                    |



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| Mechanical           | Torsional Torque Tools (Clockwise and Counterclockwise)                                     | 30 N·m to 150 N·m                           | 0.6 N·m  | Torque Transducer   | NMX-CH-6789-IMNC                                  | F                    |
| Mechanical           | Torsional Torque Tools (Clockwise and Counterclockwise)                                     | 135 N·m to 1 100 N·m                        | 2.2 N·m  | Torque Transducer Mountz BTSX1000F /                              | NMX-CH-6789-IMNC                                  | F                    |
| Electrical           | Temperature Calibration Indication and Control Equipment used with Thermocouple Type J      | -200 °C to 0 °C                             | 0.46 °C  | Calibrator 701 / 725 Electrical Simulation of Thermocouple Output | CENAM Technical Guide                             | O                    |
| Electrical           | Temperature Calibration Indication and Control Equipment used with Thermocouple Type J      | 0 °C to 800 °C                              | 0.43 °C  | Calibrator 701 / 725 Electrical Simulation of Thermocouple Output | CENAM Technical Guide                             | O                    |
| Electrical           | Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K     | -200 °C to 0 °C                             | 0.58 °C  | Calibrator 701 / 725 Electrical Simulation of Thermocouple Output | CENAM Technical Guide                             | O                    |
| Electrical           | Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K     | 0 °C to 1 200 °C                            | 0.48 °C  | Calibrator 701 / 725 Electrical Simulation of Thermocouple Output | CENAM Technical Guide                             | O                    |
| Electrical           | Temperature Calibration Indication and Control Equipment used with RTD Type Pt 385 $\Omega$ | 1 °C to 300 °C                              | 0.62 °C  | Calibrator 701 / 725 Electrical Simulation of RTD Output Process  | CENAM Technical Guide                             | O                    |



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| FIELD OF CALIBRATION | MEASURED INSTRUMENT, QUANTITY OR GAUGE  | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED                  | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED | LOCATION OF ACTIVITY |
|----------------------|---|---|--|---|---|----------------------|
| Electrical           | Temperature Calibration Indication and Control Equipment used with RTD Type Pt 385 $\Omega$ | 300 °C to 700 °C                            | 0.72 °C  | Calibrator 701 / 725<br>Electrical Simulation of RTD Output Process | CENAM Technical Guide                             | O                    |
| Electrical           | Equipment to Measure DC Voltage   | 1 mV to 100 mV                              | 0.16 % of reading  | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Voltage   | 0.2 V to 1 V                                | 0.003 % of reading   | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Voltage   | 2 V to 10 V                                 | 0.002 6 % of reading   | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Voltage   | 20 V to 100 V                               | 0.002 6 % of reading   | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Voltage   | 200 V to 1 000 V                            | 0.004 6 % of reading   | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)   | 5 mV to 100 mV                              | 0.14 % of reading  | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Voltage (@ 50 Hz to 1 kHz)  | 0.2 V to 1 V                                | 0.044 % of reading   | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Voltage (@ 50 Hz to 1 kHz)  | 2 V to 10 V                                 | 0.08 % of reading  | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Voltage (@ 50 Hz to 1 kHz)  | 20 V to 100 V                               | 0.06 % of reading  | Digital Multimeter Keysight 34401A                                  | CENAM Technical Guide                             | F                    |



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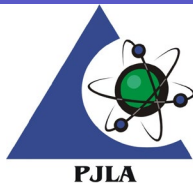
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|----------------------|--|---|--|--|---|----------------------|
| Electrical           | Equipment to Measure AC Voltage (@ 50 Hz to 1 kHz) | 200 V to 700 V                              | 0.08 % of reading  | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 1 $\Omega$ to 100 $\Omega$                  | 0.044 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 0.2 k $\Omega$ to 1 k $\Omega$              | 0.005 6 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 2 k $\Omega$ to 10 k $\Omega$               | 0.003 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 20 k $\Omega$ to 100 k $\Omega$             | 0.003 7 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 0.2 M $\Omega$ to 1 M $\Omega$              | 0.011 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 2 M $\Omega$ to 10 M $\Omega$               | 0.044 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure Resistance                    | 20 M $\Omega$ to 100 M $\Omega$             | 0.24 % of reading  | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Current                    | 1 mA to 10 mA                               | 0.011 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Current                    | 20 mA to 100 mA                             | 0.032 % of reading   | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Current                    | 1 A to 2.7 A                                | 0.42 % of reading  | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Current (@ 50 Hz to 1 kHz) | 0.2 A to 2.7 A                              | 0.03 % of reading  | Digital Multimeter Keysight 34401A                 | CENAM Technical Guide                             | F                    |



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|----------------------|--|---|--|---|---|----------------------|
| Electrical           | Equipment to Output Resistance                     | 2 k $\Omega$ to 100 k $\Omega$              | 0.0037 % of reading  | Digital Multimeter Keysight 34401A  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output Resistance                     | 0.2 M $\Omega$ to 1 M $\Omega$              | 0.044 % of reading   | Digital Multimeter Keysight 34401A  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output Resistance                     | 20 M $\Omega$ to 100 M $\Omega$             | 0.24 % of reading  | Digital Multimeter Keysight 34401A  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Voltage                     | 1 V to 20 V                                 | 0.24 % of reading  | Digital multimeter Keysight 34401A, Power Supply Keysight E3644A  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Voltage                     | 10 V to 1 000 V                             | 0.26 % of reading  | Digital multimeter Keysight 34401A, Power Supply Keysight E3644A  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to output AC Voltage (@ 50 Hz to 10 kHz) | 1 V to 20 V                                 | 0.24 % of reading  | Digital multimeter Keysight 34401A, Power Supply Keysight E3644A, Function Generator Hewlett Packard 33120A | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output AC Voltage (@ 50 Hz to 1 kHz)  | 10 V to 700 V                               | 0.26 % of reading  | Digital Multimeter Keysight 34401A, Power Supply Keysight E3644A, Function Generator Hewlett Packard 33120A | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output Resistance                     | 80 $\Omega$ to 360 $\Omega$                 | 0.044 % of reading   | Digital Multimeter Keysight 34401A, Process Calibrator Beamex MC2   | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output Resistance                     | 1 k $\Omega$ to 4 k $\Omega$                | 0.005 6 % of reading   | Digital Multimeter Keysight 34401A, Process Calibrator Beamex MC2   | CENAM Technical Guide                             | F                    |



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|----------------------|--|---|--|--|---|----------------------|
| Electrical           | Equipment to Output DC Voltage                     | 0.05 V to 0.23 V                            | 0.16 % of reading  | Process Calibrator Beamex MC2  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Voltage                     | 2.6 V to 10.8 V                             | 0.003 % of reading   | Process Calibrator Beamex MC2  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Current                     | 4 mA to 25 mA                               | 0.014 % of reading   | Digital Multimeter Keysight 34401A, Process Calibrator Beamex MC2  | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Current                     | 0.5 A to 4 A                                | 0.26 % of reading  | Digital Multimeter Keysight 34401A, Power supply Keysight E3644A   | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output DC Current                     | 2 A to 30 A                                 | 0.42 % of reading  | Digital Multimeter Keysight 34401A, Power supply Keysight E3644A, Function Generator Hewlett Packard 33120A              | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure DC Current                    | 1 A to 18 A                                 | 0.024 % of reading   | Multimeter Fluke 287   | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Measure AC Current (@ 50 Hz to 1 kHz) | 1 A to 9 A                                  | 0.42 % of reading  | Multimeter Fluke 287   | CENAM Technical Guide                             | F                    |
| Electrical           | Equipment to Output AC Current (@ 50 Hz to 1 kHz)  | 2 A to 700 A                                | 0.45 % of reading  | EDC 520A Current Voltage Calibrator & Transconductance Amplifier Fluke 5220A & Function Generator Hewlett Packard 33120A | CENAM Technical Guide                             | F                    |



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|----------------------|--|---|--|--|---|----------------------|
| Dimensional          | Caliper                                | 2.5 mm to 450 mm                            | $(10.1 + 9 \times 10^{-3}L) \mu\text{m}$                                     | Master Block Grade "1"                             | NMX-CH-002-IMNC                                   | F                    |
| Dimensional          | Micrometer                             | 2.5 mm to 300 mm                            | $(0.9 + 6 \times 10^{-3}L) \mu\text{m}$                                      | Master Block Grade "1"                             | NMX-CH-099-IMNC                                   | F                    |
| Dimensional          | Height Gauges                          | 0.1 mm to 600 mm                            | $(8.1 + 8 \times 10^{-4}L) \mu\text{m}$                                      | Gauge and Vision<br>Master Block Grade "1"         | NMX-CH-141-IMNC                                   | F                    |
| Dimensional          | Indicator                              | 0.1 mm to 50 mm                             | $(0.75 + 1.8 \times 10^{-3}L) \mu\text{m}$                                   | Master Block Grade "1"                             | NMX-CH-463-IMNC                                   | F                    |
| Dimensional          | Graduate Ruler                         | 5 mm to 3 000 mm                            | $(123 + 0.2L) \mu\text{m}$   | Gauge and Vision                                   | NMX-CH-148-IMNC                                   | F                    |
| Dimensional          | Measurement Tape                       | 5 mm to 20 000 mm                           | $(254.7 + 0.2L) \mu\text{m}$   | Gauge and Vision                                   | NMX-CH-148-IMNC                                   | F                    |
| Time and Frequency   | Tachometers Meters                     | 90 000 r/min                                | 0.2 r/min  | Digital Tachometer<br>Amprobe Tach 200.1 r/min     | CENAM Technical Guide                             | F, O                 |
| Chemical             | pH Meters                              | 4 pH  | 0.02 pH  | pH buffer Solutions:<br>NMX-CH-166-IMNC            | CENAM Technical Guide                             | O                    |
| Chemical             | pH Meters                              | 7 pH  | 0.02 pH  | pH buffer Solutions:<br>NMX-CH-166-IMNC            | CENAM Technical Guide                             | O                    |
| Chemical             | pH Meters                              | 10 pH                                       | 0.02 pH  | pH buffer Solutions:<br>NMX-CH-166-IMNC            | CENAM Technical Guide                             | O                    |
| Chemical             | Conductivity Meters                    | 1 413 $\mu\text{S/cm}$                      | 17 $\mu\text{S/cm}$  | Conductivity Solutions<br>Hanna                    | CENAM Technical Guide                             | O                    |

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.



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3. Location of activity:

| <b>Location Code</b> | <b>Location</b> |
|----------------------|-----------------|
|----------------------|-----------------|

4. 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.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

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

