



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***MSS, Metrology Solutions Specialist, S.A. de C.V.***

***Calle 11 #2, Esquina Elias Piña, Col. Aztlán  
Ciudad Reynosa, Tamaulipas, México. C.P. 88740***

*0 (Hereinafter called the Organization) and hereby declares that Organization is accredited  
in accordance with the recognized International Standard:*

### **ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the  
operation of a laboratory quality management system  
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

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

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

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

*Initial Accreditation Date:*                      *Issue Date:*                      *Expiration Date:*  
October 6, 2013                                      May 3, 2024                                      June 30, 2026

*Accreditation No.:*                                      *Certificate No.:*  
76602    L24-352

*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)*



# Certificate of Accreditation: Supplement

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Calle 11 #2 Esquina Elias Piña, Col. Aztlán  
 Ciudad Reynosa, Tamaulipas, México. C.P. 88740  
 Contact Name: Hugo Geron García Phone: 899-141-9098

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

### Dimensional

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
Micrometer <sup>FO</sup>	0.05 mm to 100 mm (Res.= 0.001 mm)	$(0.74 + 3.3 \times 10^{-3}L) \mu\text{m}$	Grade 1 Block	DI-005
	100 mm to 450 mm	$(1.724 + 0.0269L) \mu\text{m}$		
Dial Length Gage <sup>F</sup>	0.001 mm to 1 mm (Res.= 0.000 1 mm)	$(0.19 + 0.104L) \mu\text{m}$	Grade 1 Block	ASME B89.1.10M
Digital Indicator <sup>FO</sup>	1 mm to 25 mm (Res.= 0.001 mm)	$(0.974 + 3.4 \times 10^{-3}L) \mu\text{m}$	Grade 1 Block	
Dial Indicator <sup>FO</sup>	0.0001 in to 0.005 in (Res.= 0.000 1 in)	$(85 + 1.8L) \mu\text{in}$		
Calipers <sup>FO</sup>	0.5 mm to 300 mm (Res.= 0.01 mm)	$(14.5 + 3 \times 10^{-3}L) \mu\text{m}$		
	12 in to 24 in (Res.= 0.000 5 in)	$(583.8 + 4.51L) \mu\text{in}$	Grade 3 Block	DI-008
Roughness Tester <sup>FO</sup>	1.06 $\mu\text{m}$ Ra (Res.= 0.001 $\mu\text{m}$ )	0.09 $\mu\text{m}$	Roughness Standard Mahr PGN-3	DKD-R 4-2
	6.07 $\mu\text{m}$ Ra (Res.= 0.001 $\mu\text{m}$ )	0.21 $\mu\text{m}$		
Master Height Gage <sup>F</sup>	12 mm to 450 mm	$(1.2 + 0.012L) \mu\text{m}$	Grade 1 Block Comparator	ASME B89.1.9
Caliper Checker <sup>F</sup>	25 mm to 150 mm	$(1.1 + 0.011L) \mu\text{m}$		
Z Step Gage <sup>F</sup>	10 mm to 150 mm	$(1.4 + 0.002L) \mu\text{m}$		
Laser Micrometer <sup>FO</sup>	0.1 in to 0.8 in	$(24 + 0.37L) \mu\text{in}$	Master Pin Gage Class XX"	DI-005
	1.2 in to 1.9 in	$(15.6 + 17L) \mu\text{in}$		
Thickness Gage <sup>F</sup>	23.7 $\mu\text{m}$ to 966 $\mu\text{m}$	$(2.7 + 0.25L) \mu\text{m}$	Thickness Specimens Set	Internal Procedure/ Reference standard: I7.2-35L / SE-797
Optical Comparator X axis Linearity Y axis Linearity <sup>O</sup>	0.5 mm to 50 mm	$(1.6 + 0.038L) \mu\text{m}$	Glass Scale	JIS B 7184
	0.5 mm to 300 mm	$(5.39 + 0.004L) \mu\text{m}$		
Squareness <sup>O</sup>	90°	0.12°	Angles Block & Quick Check 8 in	
Optical Comparator Angularity <sup>O</sup>	1° to 90°	0.12°		
Vision System Axis Linearity (X, Y) <sup>O</sup>	X: 180 mm	$(3.3 + 1.2 \times 10^{-2}L) \mu\text{m}$	Glass Grid Scale	DI-001
	Y: 180 mm	$(3.3 + 1.2 \times 10^{-2}L) \mu\text{m}$		
Surface Plate Repeat Measurement <sup>O</sup>	0.002 in	54 $\mu\text{in}$	Repeat Gage with Precision Indicator	ASME B89.3.7



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

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Block Gage Steel <sup>F</sup>	0.5 mm to 100 mm	$(0.3 + 0.003L) \mu\text{m}$	Stand Block	ASME B89.1.9
	110 mm to 254 mm	$(0.3 + 0.005L) \mu\text{m}$	Comparator with Length Gage 1& Grade 1 Blo	
Plain Plug Gage <sup>F</sup>	1 mm to 50 mm	$(0.61 + 0.001L) \mu\text{m}$	Laser Micrometer	ASME B89.1.5
	2.54 mm to 100 mm	$(0.26 + 0.004L) \mu\text{m}$	Stand Block with Length Gage MT25	
Plain Ring Gage <sup>F</sup>	14.7 mm to 100 mm	$(0.68 + 0.013L) \mu\text{m}$	Grade 1 Block with Webber Accessories	ASME B89.1.6
Thread Plug Gage <sup>F</sup>	0.1 in to 1 in	$(64.5 + 1.54L) \mu\text{in}$	Thread Wire Set Class XX	ASME B1.2 ASME B1.16M
Thread Ring Gage <sup>FO</sup>	0.6 in to 4 in	$(55 + 7.6L) \mu\text{in}$	Grade 1 Block with Webber Accessories	
CMM Repeatability <sup>FO</sup>	8 in	68 $\mu\text{in}$	GSG Quick Check	ISO 10360-2
CMM Linearity <sup>FO</sup>	5 in to 20 in	$(36.3 + 11.89L) \mu\text{in}$	Ball Bar Gage	
CMM Probing Error <sup>FO</sup>	1 in	19 $\mu\text{in}$	Master Ball	ISO 10360-2

### Time and Frequency

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
Stopwatch <sup>F</sup>	86 400 sec	590 mS	Direct Comparison	CENAM Technical Guide NIST 960-12
Angular Velocity Tachometer <sup>FO</sup>	10 Rad/s to 4 187 Rad/s	1 % of reading	Stroboscope-Tachometer	INACAL Technical Guide

### Optical

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
Light Meter <sup>FO</sup>	11 lux to 5 393 lux	4.9 % of reading	Light Master	EXTECH 407026 Comparison Method IS 15485



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### Mechanical

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Dynamic Torque <sup>FO</sup>	10 lbf·in to 100 lbf·in	0.12 % of reading	PTT2000 Mountz with Transducer	CENAM Technical Guide
	120 lbf·in to 1 200 lbf·in	0.09 % of reading		
Torque Reaction <sup>FO</sup>	60 lbf·in to 200 lbf·in	0.42 % of reading	S-50 Mountz	ASME B107.300
Pressure Gage <sup>FO</sup>	15 psi to 150 psi	$(0.07 + 1 \times 10^{-6}P)$ psi	Druk 615, Accu. 0.025 %	ASME B40.1
	30 psi to 300 psi	$(0.07 + 1 \times 10^{-6}P)$ psi	Digital Pressure Test Gages, Accu. 0.025 %	
	500 psi to 2 000 psi	$(0.25 + 2 \times 10^{-5}P)$ psi		
	2 000 to 20 000 psi	$(12 + 3 \times 10^{-4}P)$ psi	Digital Pressure Test Gages, Accuracy 0.1 %	
Air Velocity Meter <sup>F</sup>	0.5 m/s to 15 m/s	1.1 % of reading	Thermo Anemometer (Res.= 0.01) Extech 407 113	NIST 250-79
Rockwell Hardness Indirect Verification <sup>FO</sup>	20 HRB to 50 HRB	0.4 HRB	Hardness Test Block	ASTM E18
	51 HRB to 80 HRB	0.33 HRB		
	81 HRB to 100 HRB	0.38 HRB		
	20 HRC to 30 HRC	0.44 HRC		
	31 HRC to 55 HRC	0.35 HRC		
	56 HRC to 70 HRC	0.34 HRC		

### Chemical

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
pH Meter <sup>FO</sup>	4 pH	0.02 pH	Hanna Buffer Solutions	CENAM Technical Guide
	7 pH	0.02 pH		
	10 pH	0.02 pH		
Conductivity Meter <sup>FO</sup>	1 411 $\mu$ s/cm	6.2 $\mu$ s/cm	Hanna Buffer Solutions	NMX-AA-093-SCFI
	12.88 ms/cm	0.07 ms/cm		



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### Thermodynamic

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Humidity Hygrometer <sup>FO</sup>	20 % RH to 80 % RH	2.3 % RH	Hygrometer AW WS-HT350	CENAM Technical Guide

### Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION OR MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Tension and Compression <sup>FO</sup>	0.5 kgf to 40 kgf	$(8 \times 10^{-3} + 8 \times 10^{-4} \text{Wt}) \text{ kg}\cdot\text{f}$	Class F1 Weight and Class F Weight	ME-013
	250 N to 2 250 N	$(0.56 + 3 \times 10^{-3} \text{Wt}) \text{ N}$	Daytronic Load Cell	
	500 kgf to 4 500 kgf	$(25.981 + 2 \times 10^{-6} \text{Wt}) \text{ kg}\cdot\text{f}$	Chatillon Load Cell	
Scales and Balances <sup>O</sup>	1 g to 200 g (Res= 0.000 1 g)	$(2.8 \times 10^{-4} + 1.1 \times 10^{-6} \text{Wt}) \text{ g}$	Class F1 Weights	CENAM Technical Guide
	201 g to 400 g (Res= 0.001 g)	$(22 \times 10^{-4} + 24 \times 10^{-7} \text{Wt}) \text{ g}$		
	401 g to 4 000 g (Res.= 0.01 g)	$(26 \times 10^{-3} + 29 \times 10^{-7} \text{Wt}) \text{ g}$		
	4.1 kg to 30 kg (Res= 0.1 g)	$(0.22 + 57 \times 10^{-7} \text{Wt}) \text{ g}$		
	1 lb to 100 lb (Res.= 0.002 lb)	$(37 \times 10^{-4} + 25 \times 10^{-6} \text{Wt}) \text{ lb}$	Class M2 Weights	
Scales Balances <sup>O</sup> DMS 1	20 kg to 800 kg (Res.= 1 kg)	$(1.7 + 22 \times 10^{-5} \text{Wt}) \text{ kg}$		
Mass Calibration Class, M2 and M3 <sup>F</sup>	1 kg	16 mg	Double Substitution Class F 1 Weights Set	OIML R 111-1
	2 kg	30 mg		
	5 kg	73 mg		
	10 kg	160 mg		
	20 kg	310 mg		
	30 kg	730 mg		
	500 kg	8 mg		

### Acoustic

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Sound Level <sup>F</sup>	94 dB	0.3 dB	Sound Level Calibrator	EXTECH 407766 ANSI S1.4
	114 dB	0.3 dB		



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### Electrical

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Equipment to Output DC Voltage <sup>FO</sup>	1 mV to 200 mV	6.7 $\mu$ V	Multimeter 8 1/2 Digit Keithley	Procedure EI-005
	201 mV to 2 V	0.41 $\mu$ V		
	2.1 mV to 20 V	24 $\mu$ V		
	20.1 V to 200 V	5.6 mV		
	200.1 V to 1 000 V	26 mV		
Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	1 mV to 200 mV	0.36 mV		
10 Hz to 50 Hz	1 mV to 200 mV	0.17 mV		
50 Hz to 100 Hz	1 mV to 200 mV	0.12 mV		
0.1 KHz to 2 KHz	1 mV to 200 mV	0.12 mV		
2 kHz to 10 kHz	1 mV to 200 mV	0.09 mV		
10 kHz to 30 kHz	1 mV to 200 mV	0.11 mV		
30 kHz to 50 kHz	1 mV to 200 mV	0.19 mV		
50 kHz to 100 kHz	1 mV to 200 mV	0.7 mV		
100 kHz to 200 kHz	1 mV to 200 mV	1.8 mV		
0.2 MHz to 1 MHz	1 mV to 200 mV	4.9 mV		
1 MHz to 2 MHz	1 mV to 200 mV	12 mV		
Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	0.2 V to 2 V	6 mV		
10 Hz to 50 Hz	0.2 V to 2 V	1.2 mV		
50 Hz to 100 Hz	0.2 V to 2 V	0.93 mV		
0.1 Hz to 2 kHz	0.2 V to 2 V	0.93 mV		
2 kHz to 10 kHz	0.2 V to 2 V	0.93 mV		
10 kHz to 30 kHz	0.2 V to 2 V	1 mV		
30 kHz to 50 kHz	0.2 V to 2 V	1.6 mV		
50 kHz to 100 kHz	0.2 V to 2 V	7.3 mV		
100 kHz to 200 kHz	0.2 V to 2 V	21 mV		
0.2 MHz to 1 MHz	0.2 V to 2 V	48 mV		
1 MHz to 2 MHz	0.2 V to 2 V	120 mV		



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Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>			Multimeter 8 1/2 Digit Keithley	Procedure EI-005
1Hz to 10 Hz	2 V to 20 V	29 mV		
10 Hz to 50 Hz	2 V to 20 V	17 mV		
50 Hz to 100 Hz	2 V to 20 V	11 mV		
0.1 kHz to 2 kHz	2 V to 20 V	72 mV		
2 kHz to 10 kHz	2 V to 20 V	12 mV		
10 kHz to 30 kHz	2 V to 20 V	15 mV		
30 kHz to 50 kHz	2 V to 20 V	25 mV		
50 kHz to 100 kHz	2 V to 20 V	73 mV		
100 kHz to 200 kHz	2 V to 20 V	180 mV		
0.2 MHz to 1 MHz	2 V to 20 V	970 mV		
1 MHz to 2 MHz	2 V to 20 V	1.7 mV		
Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	20 V to 200 V	270 mV		
10 Hz to 50 Hz	20 V to 200 V	150 mV		
50 Hz to 100 Hz	20 V to 200 V	110 mV		
0.1 kHz to 2 kHz	20 V to 200 V	120 mV		
2 kHz to 10 kHz	20 V to 200 V	130 mV		
10 kHz to 30 kHz	20 V to 200 V	150 mV		
30 kHz to 50 kHz	20 V to 200 V	200 mV		
50 kHz to 100 kHz	20 V to 200 V	750 mV		
100 kHz to 200 kHz	20 V to 200 V	1.8 mV		
0.2 MHz to 1 MHz	20 V to 200 V	9.7 mV		
Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	200 V to 750 V	1.3 V		
10 Hz to 50 Hz	200 V to 750 V	0.91 V		
50 Hz to 100 Hz	200 V to 750 V	0.57 V		
0.1 kHz to 2 kHz	200 V to 750 V	0.57 V		
2 kHz to 10 kHz	200 V to 750 V	0.67 V		



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Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>			Multimeter 8 1/2 Digit Keithley 2002	Procedure EI-005
10 kHz to 30 kHz	200 V to 750 V	0.92 V		
30 kHz to 50 kHz	200 V to 750 V	1.1 V		
50 kHz to 100 kHz	200 V to 750 V	4.5 mV		
Equipment to Output Resistance - Two Wire <sup>FO</sup>	1 $\Omega$ to 20 $\Omega$	1 m $\Omega$		
	20 $\Omega$ to 200 $\Omega$	7.2 m $\Omega$		
	0.2 k $\Omega$ to 2 k $\Omega$	29 m $\Omega$		
	2 k $\Omega$ to 20 k $\Omega$	320 m $\Omega$		
	20 k $\Omega$ to 200 k $\Omega$	9.6 $\Omega$		
	0.2 M $\Omega$ to 2 M $\Omega$	190 $\Omega$		
	2 M $\Omega$ to 20 M $\Omega$	6.4 k $\Omega$		
	20 M $\Omega$ to 200 M $\Omega$	140 k $\Omega$		
	0.2 $\Omega$ to 1 G $\Omega$	3 m $\Omega$		
Equipment to Output Resistance - Four Wire <sup>FO</sup>	1 $\Omega$ to 20 $\Omega$	2.2 m $\Omega$		
	20 $\Omega$ to 200 $\Omega$	5 m $\Omega$		
	0.2 k $\Omega$ to 2 k $\Omega$	24 m $\Omega$		
	2 k $\Omega$ to 20 k $\Omega$	230 m $\Omega$		
	20 k $\Omega$ to 200 k $\Omega$	8.3 $\Omega$		
	0.2 M $\Omega$ to 2 M $\Omega$	160 $\Omega$		
	2 M $\Omega$ to 20 M $\Omega$	5.8 k $\Omega$		
	20 M $\Omega$ to 200 M $\Omega$	59 k $\Omega$		
	0.2 G $\Omega$ to 1 G $\Omega$	300 k $\Omega$		
Equipment to Output DC Current <sup>FO</sup>	1 $\mu$ A to 200 $\mu$ A	90 nA		
	0.2 mA to 2 mA	860 nA		
	2 mA to 20 mA	8.5 $\mu$ A		
	20 mA to 200 mA	91 $\mu$ A		
	0.2 A to 2 A	1.8 mA		
	2 A to 10 A	190 mA		
			Multimeter Fluke 189	



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Equipment to Output AC Current At the listed frequencies <sup>FO</sup>			Multimeter 8 1/2 Digit Keithley	Procedure EI-005
50 Hz to 200 Hz	1 $\mu$ A to 200 $\mu$ A	500 $\mu$ A		
0.2 Hz to 1 kHz	1 $\mu$ A to 200 $\mu$ A	960 $\mu$ A		
1 Hz to 10 kHz	1 $\mu$ A to 200 $\mu$ A	1.2 $\mu$ A		
Equipment to Output AC Current At the listed frequencies <sup>FO</sup>				
20 Hz to 50 Hz	0.2 mA to 2 mA	7.3 $\mu$ A		
50 Hz to 200 Hz	0.2 mA to 2 mA	3.8 $\mu$ A		
0.2 Hz to 1 kHz	0.2 mA to 2 mA	3.1 $\mu$ A		
1 kHz to 10 kHz	0.2 mA to 2 mA	3.9 $\mu$ A		
10 kHz to 30 kHz	0.2 mA to 2 mA	6.5 $\mu$ A		
30 kHz to 50 kHz	0.2 mA to 2 mA	7.6 $\mu$ A		
50 kHz to 100 kHz	0.2 mA to 2 mA	12 $\mu$ A		
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>				
20 Hz to 50 Hz	2 mA to 20 mA	7.3 $\mu$ A		
50 Hz to 200 Hz	2 mA to 20 mA	38 $\mu$ A		
0.2 kHz to 1 kHz	2 mA to 20 mA	31 $\mu$ A		
1 kHz to 10 kHz	2 mA to 20 mA	38 $\mu$ A		
10 kHz to 30 kHz	2 mA to 20 mA	65 $\mu$ A		
30 kHz to 50 kHz	2 mA to 20 mA	76 $\mu$ A		
50 kHz to 100 kHz	2 mA to 20 mA	120 $\mu$ A		
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>				
20 Hz to 50 Hz	20 mA to 200 mA	730 $\mu$ A		
50 Hz to 200 Hz	20 mA to 200 mA	390 $\mu$ A		
0.2 KHz to 1 KHz	20 mA to 200 mA	320 $\mu$ A		
1 kHz to 10 kHz	20 mA to 200 mA	420 $\mu$ A		
10 kHz to 30 kHz	20 mA to 200 mA	1.2 mA		



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Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Multimeter 8 1/2 Digit Keithley	Procedure EI-005
30 kHz to 50 kHz	20 mA to 200 mA	2.3 mA		
50 kHz to 100 kHz	20 mA to 200 mA	7 mA		
Equipment to Output AC Current At the listed frequencies <sup>FO</sup>			Multimeter 8 1/2 Digit Keithley 2002	
20 Hz to 50 Hz	0.2 mA to 2 A	8.4 mA		
50 Hz to 200 Hz	0.2 mA to 2 A	5 mA		
0.2 kHz to 1 kHz	0.2 mA to 2 A	7.3 mA		
1 kHz to 10 kHz	0.2 mA to 2 A	16 mA		
10 kHz to 30 kHz	0.2 mA to 2 A	37 mA		
30 kHz to 50 kHz	0.2 mA to 2 A	94 mA		
Equipment to Output AC Voltage At the listed frequencies <sup>FO</sup>			HP 5343A	
5 mA	1 Hz to 15 MHz	5.3 kHz		
Equipment to Output AC Current At the listed frequencies <sup>FO</sup>			Fluke 189 / Fluke 80K - 6 HV	
200 mA	1 Hz to 1 MHz	360 Hz		
Equipment to Output frequency <sup>FO</sup>			Standard Capacitor GRD	Procedure EI-020
	10 Hz to 500 MHz	500 Hz		
	500 MHz to 26.5 GHz	800 Hz		
Equipment to Output High DC Voltage <sup>FO</sup>	6 kV	70 V		
Equipment to Output High AC Voltage <sup>FO</sup>	6 kV	70 V		
Equipment to Output Capacitance <sup>FO</sup>			Calibrator Omega CL511 Electrical Simulation of Thermocouple Output	
	2 nF	6 pF		
	0.2 $\mu$ F	140 pF		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K <sup>FO</sup>				
	-200 °C to 0 °C	0.39 °C		
	0 °C to 100 °C	0.82 °C		
	100 °C to 1 000 °C	2.7 °C		



# Certificate of Accreditation: Supplement

**MSS, Metrology Solutions Specialist, S.A. de C.V.**

Calle 11, #2, Esquina Elias Piña, Col. Aztlán  
 Ciudad Reynosa, Tamaulipas, México. C.P. 88740  
 Contact Name: Hugo Geron García Phone: 899-141-9098

*Accreditation is granted to the facility to perform the following calibration:*

## Electrical

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Equipment to Measure DC Voltage <sup>FO</sup>	1 mV to 330 mV	3.9 $\mu$ V	Fluke 5550A	Procedure EI-020
	0.33 V to 3.3 V	54 $\mu$ V		
	3.3 V to 33 V	0.32 mV		
	33 V to 330 V	12 mV		
	330 V to 1 020 V	2.5 mV		
Equipment to Measure AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 45 Hz	1 mV to 33 mV	12 $\mu$ V		
45 Hz to 1 kHz	1 mV to 33 mV	12 $\mu$ V		
1 kHz to 10 kHz	1 mV to 33 mV	12 $\mu$ V		
10 kHz to 20 kHz	1 mV to 33 mV	10 $\mu$ V		
20 kHz to 50 kHz	1 mV to 33 mV	10 $\mu$ V		
50 kHz to 100 kHz	1 mV to 33 mV	20 $\mu$ V		
100 kHz to 450 kHz	1 mV to 33 mV	0.63 mV		
Equipment to Measure AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 45 Hz	33 mV to 330 mV	120 $\mu$ V		
45 Hz to 1 kHz	33 mV to 330 mV	120 $\mu$ V		
1 kHz to 10 kHz	33 mV to 330 mV	120 $\mu$ V		
10 kHz to 20 kHz	33 mV to 330 mV	120 $\mu$ V		
20 kHz to 50 kHz	33 mV to 330 mV	120 $\mu$ V		
50 kHz to 100 kHz	33 mV to 330 mV	120 $\mu$ V		
100 kHz to 450 kHz	33 mV to 330 mV	120 $\mu$ V		
Equipment to Measure AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 45 Hz	0.33 V to 3.3 V	1.1 mV		
45 Hz to 1 kHz	0.33 V to 3.3 V	1.2 mV		
1 kHz to 10 kHz	0.33 V to 3.3 V	1.2 mV		
10 kHz to 20 kHz	0.33 V to 3.3 V	1.2 mV		



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Equipment to Measure AC Voltage At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020
1 Hz to 45 Hz	3.3 V to 330 V	114 mV		
45 Hz to 1 kHz	3.3 V to 330 V	114 mV		
1 kHz to 10 kHz	3.3 V to 330 V	114 mV		
10 kHz to 20 kHz	3.3 V to 330 V	110 mV		
Equipment to Measure AC Voltage At the listed frequencies <sup>FO</sup>				
1 Hz to 45 Hz	330 V to 1 020 V	370 mV		
45 Hz to 1 kHz	330 V to 1 020 V	370 mV		
1 kHz to 5 kHz	330 V to 1 020 V	370 mV		
5 kHz to 10 kHz	330 V to 1 020 V	370 mV		
Equipment to Measure DC Current <sup>FO</sup>				
	50 $\mu$ A to 330 $\mu$ A	45 nA		
	0.33 mA to 3.3 mA	81 $\mu$ A		
	3.3 mA to 33 mA	4 $\mu$ A		
	33 mA to 330 mA	42 $\mu$ A		
	0.33 A to 2.2 A	29 $\mu$ A		
	2.2 A to 11 A	1.6 mA		
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	29 $\mu$ A to 330 $\mu$ A	240 nA		
10 Hz to 45 Hz	29 $\mu$ A to 330 $\mu$ A	230 nA		
45 Hz to 1 kHz	29 $\mu$ A to 330 $\mu$ A	230 nA		
1 kHz to 5 kHz	29 $\mu$ A to 330 $\mu$ A	270 nA		
5 kHz to 10 kHz	29 $\mu$ A to 330 $\mu$ A	270 nA		
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>				
1 Hz to 10 Hz	0.33 mA to 3.3 mA	2.5 $\mu$ A		
10 Hz to 45 Hz	0.33 mA to 3.3 mA	2.5 $\mu$ A		
45 Hz to 1 kHz	0.33 mA to 3.3 mA	2.5 $\mu$ A		



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Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020		
1 kHz to 5 kHz	0.33 mA to 3.3 mA	2.5 µA				
5 kHz to 10 kHz	0.33 mA to 3.3 mA	2.7 µA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020		
1 Hz to 10 Hz	3.3 mA to 33 mA	23 µA				
10 Hz to 45 Hz	3.3 mA to 33 mA	460 µA				
45 Hz to 1 kHz	3.3 mA to 33 mA	24 µA				
1 kHz to 5 kHz	3.3 mA to 33 mA	24 µA				
5 kHz to 10 kHz	3.3 mA to 33 mA	26 µA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>					Fluke 5550A	Procedure EI-020
1 Hz to 10 Hz	33 mA to 330 mA	240 µA				
10 Hz to 45 Hz	33 mA to 330 mA	260 µA				
45 Hz to 1 kHz	33 mA to 330 mA	250 µA				
1 kHz to 5 kHz	33 mA to 330 mA	260 µA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020		
1 Hz to 45 Hz	0.33 A to 2.2 A	1.6 mA				
45 Hz to 1 kHz	0.33 A to 2.2 A	1.6 mA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020		
1 kHz to 5 kHz	0.33 A to 2.2 A	1.6 mA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>					Fluke 5550A	Procedure EI-020
1 Hz to 45 Hz	2.2 A to 11 A	7.8 mA				
45 Hz to 500 Hz	2.2 A to 11 A	7.8 mA				
Equipment to Measure AC Current At the listed frequencies <sup>FO</sup>			Fluke 5550A	Procedure EI-020		
500 Hz to 1 kHz	2.2 A to 11 A	7.8 mA				
Equipment to Measure Resistance <sup>FO</sup>					Fluke 5550A	Procedure EI-020
	0.001 Ω to 11 Ω	1.2 mΩ				
	11 Ω to 33 Ω	3.6 mΩ				
	33 Ω to 110 Ω	12 mΩ				



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Equipment to Measure Resistance <sup>FO</sup>	110 $\Omega$ to 330 $\Omega$	36 m $\Omega$	Fluke 5550A	Procedure EI-020
	033 k $\Omega$ to 1.1 k $\Omega$	1.3 $\Omega$		
	1.1 k $\Omega$ to 3.3 k $\Omega$	0.81 $\Omega$		
	3.3 k $\Omega$ to 11 k $\Omega$	1.2 $\Omega$		
	11 k $\Omega$ to 33 k $\Omega$	3.6 $\Omega$		
	33 k $\Omega$ to 110 k $\Omega$	12 $\Omega$		
	110 k $\Omega$ to 330 k $\Omega$	36 $\Omega$		
	0.33 M $\Omega$ to 1.1 M $\Omega$	0.12 $\Omega$		
	1.1 M $\Omega$ to 3.3 M $\Omega$	0.37 $\Omega$		
	3.3 M $\Omega$ to 11 M $\Omega$	1.5 k $\Omega$		
	11 M $\Omega$ to 33 M $\Omega$	0.11 k $\Omega$		
	33 M $\Omega$ to 110 M $\Omega$	45 k $\Omega$		
110 M $\Omega$ to 330 M $\Omega$	40 k $\Omega$			
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B <sup>FO</sup>	600 $^{\circ}$ C to 800 $^{\circ}$ C	0.84 $^{\circ}$ C	Calibrator Fluke 5550A Electrical Simulation of Thermocouple Output	
	800 $^{\circ}$ C to 1 000 $^{\circ}$ C	0.63 $^{\circ}$ C		
	1 000 $^{\circ}$ C to 1 400 $^{\circ}$ C	0.52 $^{\circ}$ C		
	1 400 $^{\circ}$ C to 1 800 $^{\circ}$ C	0.57 $^{\circ}$ C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C <sup>FO</sup>	0 $^{\circ}$ C to 600 $^{\circ}$ C	0.45 $^{\circ}$ C		
	600 $^{\circ}$ C to 1 000 $^{\circ}$ C	0.42 $^{\circ}$ C		
	1 000 $^{\circ}$ C to 1 800 $^{\circ}$ C	0.61 $^{\circ}$ C		
	1 800 $^{\circ}$ C to 2 300 $^{\circ}$ C	0.63 $^{\circ}$ C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E <sup>FO</sup>	-250 $^{\circ}$ C to -200 $^{\circ}$ C	0.69 $^{\circ}$ C		
	-200 $^{\circ}$ C to -100 $^{\circ}$ C	0.34 $^{\circ}$ C		
	-100 $^{\circ}$ C to 100 $^{\circ}$ C	0.27 $^{\circ}$ C		
	100 $^{\circ}$ C to 1 000 $^{\circ}$ C	0.33 $^{\circ}$ C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J <sup>FO</sup>	-210 $^{\circ}$ C to -100 $^{\circ}$ C	0.39 $^{\circ}$ C		
	-100 $^{\circ}$ C to 800 $^{\circ}$ C	0.3 $^{\circ}$ C		
	800 $^{\circ}$ C to 1 000 $^{\circ}$ C	0.33 $^{\circ}$ C		
	1 000 $^{\circ}$ C to 1 200 $^{\circ}$ C	0.36 $^{\circ}$ C		



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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K <sup>FO</sup>	-250 °C to -200 °C	0.87 °C	Calibrator Fluke 5550A Electrical Simulation of Thermocouple Output	Procedure EI-020
	-200 °C to -100 °C	0.42 °C		
	-100 °C to 100 °C	0.3 °C		
	100 °C to 600 °C	0.36 °C		
	600 °C to 1 372 °C	0.42 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L <sup>FO</sup>	-200 °C to -50 °C	0.4 °C		
	-50 °C to 200 °C	0.28 °C		
	200 °C to 700 °C	0.31 °C		
	700 °C to 900 °C	0.36 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N <sup>FO</sup>	-200 °C to -100 °C	0.51 °C		
	-100 °C to 900 °C	0.36 °C		
	900 °C to 1 100 °C	0.34 °C		
	1 100 °C to 1 300 °C	0.37 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T <sup>FO</sup>	-250 °C to -200 °C	0.9 °C		
	-200 °C to -100 °C	0.42 °C		
	-100 °C to 0 °C	0.34 °C		
	0 °C to 400 °C	0.27 °C		
Temperature Calibration, Indication and Control Equipment used with RTD, Type Pt 395, 100 $\Omega$ <sup>FO</sup>	-200 °C to -100 °C	0.27 °C	Calibrator Fluke 5550A Electrical Simulation of RTD Output	
	-100 °C to 200 °C	0.19 °C		
	200 °C to 500 °C	0.36 °C		
	500 °C to 800 °C	0.53 °C		
Temperature Calibration, Indication and Control Equipment used with RTD, Type Pt 385, 1 000 $\Omega$ <sup>FO</sup>	-200 °C to -100 °C	0.27 °C		
	-100 °C to 100 °C	0.19 °C		
	100 °C to 630 °C	0.36 °C		
	630 °C to 850 °C	0.53 °C		

### Optical

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Light Meter <sup>FO</sup>	11 lux to 5 393 lux	4.9 % of reading	Light Master	EXTECH 407026 Comparison Method IS 15485



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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.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.
5. 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.
6. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
7. The term P represents pressure in units appropriate to the uncertainty statement.
8. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement
9. The term F represents Force in units appropriate to the uncertainty statement.