

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

HQ – ETALONET, S.A. de C.V.

Pasaje de los Lirios #3238, Col. Riberas del Rio Guadalupe Nuevo León, México C.P. 67160

Site – Etalons, S.A. de C.V.

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770

(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 & Frequency, Mass, Force and Weighing Devices, Mechanical, Thermodynamic, Chemical 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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

August 14, 2012

August 31, 2022

October 31, 2024

Accreditation No.:

Certificate No.:

73706

L22-582

Tracy Szerszen President

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



Site – Etalons, S.A. de C.V.

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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

Dimensional

Difficusional	DANGE OF VOLUME PRINCE	GATTED ATTOMATE	CALLED ATTOM TOURNESS
MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE	CALIBRATION AND	CALIBRATION EQUIPMENT
QUANTITY OR GAUGE	SIZE AS APPROPRIATE	MEASUREMENT	AND REFERENCE STANDARDS
		CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	USED
NG: FO	0.05: 24:		G 1 1 G P1 1
Micrometers ^{FO}	0.05 in to 24 in	$(52 + 16L) \mu in$	Grade 1 Gage Blocks
			JIS B 7502
Micrometers ^{FO}	2.5 mm to 25 mm	(0.88+1L) μm	Grade 0 Gage Blocks
			JIS B 7502
Calipers ^{FO}	0.05 in to 24 in	$(392 + 16L) \mu in$	Grade 1 Gage Blocks
			NMX-CH-002-IMNC
Indicators ^{FO}	0.005 in to 2 in	(384 + 16L) μin	Micrometer head Cal
			JIS B 7503
Height Gages ^{FO}	0.05 in to 24 in	(392 + 16L) μin	Grade 1 Gage Blocks
			JIS B 7517
Rules and Tapes ^{FO}	2 mm to 1 000 mm	$(570 + 0.24L) \mu m$	Magnifier and Linear Scales
		7.	JIS B 7516
Thread Plug Gage	0-80 to 1-12	210 μin	Three Wire Method and
Pitch Diameter ^{FO}			Digital Micrometer
			ANSI/ASME B1.2

Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Meter	4 pH	0.02 pH	Standard Solutions
Fixed Point ^{FO}	7 pH	0.02 pH	NMX-AA-093-SCFI
	10 pH	0.02 pH	
Conductivity Meter	0.1 mS	1.6 μS	
Fixed Point ^{FO}	1.44 mS	14 μS	
	12.88 mS	130 μS	
Gas Flow MeterFO	2.5 cc/min to 250 cc/min	5.4 % of reading	TSI 4140
			CENAM Technical Guide

Mass. Force and Weighing Devices

MEASURED INSTRUM ENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN	CALIBRATION EQUIPMENT AND REFERENCE S
		UNCERTAINTY (±)	STANDARDS USED
Analytical BalancesFO	1 mg to 100 g	0.58 mg	Class 1 and Class F
	100 g to 20 kg	1.2 g	NOM-CH-10-SCFI
	20 kg to 1 000 kg	0.12 kg	
Weight Devices ^{FO}	20 kg	3.2 g	Weight 20 kg Class M3 PPC-
			1-MAS-05
			NOM-038-SCFI

Issue: 08/2022 This supplement is in conjunction with certificate #L22-582



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Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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

Mass, Force and Weighing Devices

MEASURED INSTRUM ENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Weight Devices ^{FO}	5 kg	AS AN UNCERTAINTY (±) 0.06 g	Weights Class F
			OIML R111 NOM-038-SCFI
Force Gauge - Tension ^{FO}	5 kgf to 250 kgf	0.7 kgf	Hanging Method Class M2 ISO 7500
	4.59 lbf to 100 lbf	5.8 % of reading	Load Cell Strain Sense SST101UF ASTM-E4-10
	100 lbf to 1 000 lbf	0.48 % of reading	Load Cell Strain Sense SST102UF ASTM-E4-10
	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain Sense SST103UF ASTM-E4-10
Force Gauge - Compression ^{FO}	9.41 lbf to 100 lbf	5.8 % of reading	Load Cell Strain Sense SST101UF ASTM-E4-10
	100 lbf to 1 000 lbf	0.55 % of reading	Load Cell Strain Sense SST102UF ASTM-E4-10
	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain Sense SST103UF ASTM-E4-10

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Patient Monitors ^O Non-Invasive Blood Pressure	30 mmHg to 255 mmHg	0.8 mmHg	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-2 NOM-009-SCFI
Baumanometers ^O	30 mmHg to 300 mmHg	0.8 mmHg	Prosim 8 Fluke PPC-1-BIO-4 NOM-009-SCFI
Torque Tester Analog/Digital ^{FO}	50 lbf·ft to 1 000 lbf·ft	0.25 % of reading	Torque Cell PPC-1-TOR-01 B107.14M



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Mechanical

Mechanical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATIONEQUIPMENT AND REFERENCE STANDARDS USED
Torque Tools ^{FO}	25 lbf-in to 250 lbf-in	1 % of reading	Load Cell Mountz BMX-250i ANSI/ASME B107.14M
	10 lbf·ft to 100 lbf·ft	1 % of reading	Load Cell Mountz BMX -100F ANSI/ASME B107.14M
Torque Tools ^{FO}	100 lbf·ft to 1 000 lbf·ft	1 % of reading	Load Cell Mountz BMX-1 000F ANSI/ASME B107.14
Pressure Gauge ^{FO}	3 psi to 300 psi	0.25 % of reading	Druck Pressure Calibrator PROY-NMX-CH-201-IMNC
	300 psi to 3 000 psi	0.25 % of reading	Crystal Calibrator PROY-NMX-CH-201-IMNC
Vacuum Gauge ^{FO}	-11 psi to 0.5 psi	0.06 psi	Druck Pressure Calibrator PROY-NMX-CH-201-IMNC
Single Delivery Mechanical Piston Dispensers ^{FO}	1 mL to 200 mL	0.2 % of reading	Analytical Balance SARTORIUS, LA230S Mettler Toledo,
Diffusers ^{FO}	1 mL to 100 mL	0.2 % of reading	XP 5003SDR
Pipettes ^{FO}	1 mL to 10 mL 10 mL to 100 mL	0.015 % of reading 0.2 % of reading	NMX-CH-049- IMNC
Volumetric Flasks ^{FO}	1 mL to 5 L	0.1 % of reading	
Burettes ^{FO}	1 mL to 100 mL	0.07 % of reading	
	100 mL to 1 L	0.01 % of reading	
Test Tubes ^{FO}	25 mL to 500 mL	0.1 % of reading	
Volumetric Graduated Neck Flask ^{FO}	1 L to 20 L	0.015 % of reading	Balance SARTORIUS 3808 MP8-1 Analytical Balance Mettler Toledo, XP 5003SDR NMX-CH-049- IMNC
Pycnometers Gay- Lussac ^{FO}	10 mL to 100 mL	0.005 % of reading	Analytical Balance Mettler Toledo, XP 5003SDR NMX-CH-049- IMNC

Thermodynamic

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MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Direct Reading Thermometer ^{FO}	40 °C to 200 °C	0.31 °C	Micro Bath 6102 NMX-CH-70-SCFI



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Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Direct Reading Thermometer ^{FO}	-15 °C to 350 °C	0.68 °C	Hart Calibrator 9009 NMX-CH-70-SCFI
Infrared Temperature Measuring Instrument ^{FO}	50 °C to 450 °C	0.81°C	Hart Calibrator 9132 PPC-1-TEM-05 CCT-W65 Radiation Thermometry
Hygometer ^{FO}	5 % RH to 95 % RH	1.6 % RH	Rotronic Hygro P2 PPC-1-TEM-06 CENAM Technical Guide
Temperature Chamber ^F	-50 °C to 300 °C	0.65 °C	Data Logger Manufacturer Etalons Model: ETA-DAQ-01 AMS2750
Relative Humidity Chamber ^F	35 % RH to 95 % RH	1.2 % RH	Rotronic Hydropalm HP-22A AMS2750

Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output	9 μV to 330 mV	$81 \mu V/V + 3 \mu V$	Fluke 5500A
DC Voltage ^{FO}	330 mV to 3 V	$62 \mu V/V + 5 \mu V$	Euramet-cg-5
	3 V to 30 V	$62 \mu V/V + 50 \mu V$	
	30 V to 30 V	$67 \mu V/V + 1.5 \mu V$	
	30 V to 1 000 V	$67 \mu\text{V/V} + 1.5 \text{mV}$	
Equipment to Output DC Voltage ^{FO}	30 mV to 1 000 V	0.1 % of Output + 10 mV	Fluke 45 PPC-1-ELE-08 EN 60060-2
	1 kV to 30 kV	0.6 % of Output + 30 V	ESH Electrostatic Voltmeter PROY-NMX-CH-515-1- IMNC
Equipment to Output DC Current ^{FO}	0.33 A to 11 A	0.097 % of Output + 160 μA	Fluke 5500 A and 50 Turn Coil ANSI C39.1: 81



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MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	SIZE AS APPROPRIATE	MEASUREMENT	EQUIPMENT
		CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	AND REFERENCE STANDARDS USED
Clamp-On Meters ^{FO}	3.3 mA to 550 A	0.35 % of Output + 0.018A	Fluke 5500 A and
			50 Turn Coil
T	0.4 334 44 00 1334	0.14.0/ 0.0 0.45	ANSI C39.1: 81
Equipment to Measure DC Power ^{FO}	0.1 mW to 11.22 kW	0.14 % of Output + 0.45 μW	Fluke 5500 A Euramet-cg-15
Equipment to Measure	$0.25~\Omega$ to $10.99~\Omega$	0.013 % of Output + 0.008 Ω	
Resistance ^{FO}	11 Ω to 329.999 Ω	0.01% of Output + 0.015Ω	
	330 Ω to 3.299 99 kΩ	$0.01~\%$ of Output $+~0.06~\Omega$	
	3.3 kΩ to 32.999 9 kΩ	$0.01~\%$ of Output $+~0.6~\Omega$	
	33 kΩ to 329.999 kΩ	0.013 % of Output + 6 Ω	
	330 kΩ to 3.299 99 MΩ	0.017% of Output + 55 Ω	
	3.3 MΩ to 32.999 9 MΩ	0.11 % of Output + 550 Ω	
	33 MΩ to 109.999 MΩ	0.57% of Output + $5.5 \text{ k}\Omega$	
	$110 \text{ M}\Omega$ to $330 \text{ M}\Omega$	0.57% of Output + $17 \text{ k}\Omega$	
	1 Ω to 1.111 11 MΩ	0.01% of Output + 2 m Ω	GenRad 1433B
	1 kΩ to 1 TΩ	2 % of Output	IET VRS-100-101K-BP
Equipment to Measure	0.33 nF to 0.499 9 nF	0.62 % of Output + 16 pF	Fluke 5500A Euramet-cg-15
Capacitance @ 1 kHz ^{FO}	0.5 nF to 1.099 9 nF	0.6 % of Output + 12 pF	
	1.1 nF to 3.299 9 nF	0.58 % of Output + 12 pF	
	3.3 nF to 10.999 nF	0.49 % of Output + 25 pF	
	11 nF to 32.999 nF	0.29 % of Output + 120 pF	
	33 nF to 109.99 nF	0.29 % of Output + 120 pF	
	110 nF to 329.99 nF	0.33 % of Output + 300 pF	
	0.33 nF to 1.099 9 μF	0.28 % of Output + 1.6 nF	
	1.1 μF to 3.299 9 μF	0.42 % of Output + 3.5 nF	
	3.3 μF to 10.999 μF	0.42 % of Output + 12 nF	
	11 μF to 32.999 μF	0.5 % of Output + 32 nF	
	33 μF to 109.99 μF	0.63 % of Output + 0.13 μF	
	110 μF to 329.99 μF	0.82 % of Output + 1.6 μF	
	330 μF to 1.1 mF	1.3 % of Output + 0.16 μF	
	1 pF to 1.1 μF	0.5 % of Output + 5 pF	GenRad
	· .		1412BCPPC-1-ELE-09
1			CENAM Technical Guide



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Electrical	T	· · · · · · · · · · · · · · · · · · ·	
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSEDAS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure	0.001 μF	0.5 % of Output	GenRad 1409F
Capacitance to Fixed	·	•	PPC-1-ELE-09
Points ^{FO}			CENAM Technical Guide
	1 μF	0.06 % of Output	GenRad 1409Y
		_	PPC-1-ELE-09
			ANSI-C-39-6
Equipment to Measure	200 μΗ	0.29 % of Output	GenRad 1482C
Inductance ^{FO}			PPC-1-ELE-09
Fixed Point @ 1 kHz ^{FO}			ANSI-C-39-6
	2 mH	0.12 % of Output	GenRad 1482F PPC-
			1-ELE-09
	0.11	2.12.07	ANSI-C-39-6
	2 H	0.12 % of Output	GenRad 1482Q
		7	PPC-1-ELE-09
F : 44 M			ANSI-C-39-6
Equipment to Measure AC Voltage			Fluke 5500A
At the listed frequencies ^F	0		Euramet-cg 15
10 Hz to 45 Hz	33 mV to 329.999 mV	960 Mv	
45 Hz to 10 kHz	33 mV to 329.999 mV	260 μV	
10 kHz to 20 kHz	33 mV to 329.999 mV	350 μV	
20 kHz to 50 kHz	33 mV to 329.999 mV	680 μV	
50 kHz to 100 kHz	33 mV to 329.999 mV	1 100 μV	
100 kHz to 500 kHz	33 mV to 329.999 mV	2 700 μV	
Equipment to Measure			
AC Voltage At the listed frequencies ^F	0		
10 Hz to 45 Hz	0.33 V to 3.299 99 V	10 mV	
45 Hz to 10 kHz	0.33 V to 3.299 99 V	19 mV	
10 kHz to 20 kHz	0.33 V to 3.299 99 V	3 mV	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	10 mV	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	10 mV	
100 kHz to 500 kHz	0.33 V to 3.299 99 V	23 mV	



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Electrical			_
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure	Fluke 5500A		
AC Voltage	2		Euramet-cg 15
At the listed frequencies ^{FO}	3.3 V to 32.999 9 V	60 mV	
45 Hz to 10 kHz	3.3 V to 32.999 9 V	20 mV	
10 kHz to 20 kHz	3.3 V to 32.999 9 V	30 mV	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	10 mV	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	10 mV	
100 kHz to 500 kHz	0.33 V to 3.299 99 V	23 mV	
Equipment to Measure AC Voltage At the listed frequencies ^{FG}		0	
20 kHz to 50 kHz	3.3 V to 32.999 9 V	80 mV	
50 kHz to 100 kHz	3.3 V to 32.999 9 V	190 mV	
45 Hz to 1 kHz	33 V to 329.999 V	580 mV	
1 kHz to 10 kHz	33 V to 329.999 V	300 mV	
10 kHz to 20 kHz	33 V to 329.999 V	2 300 mV	
45 Hz to 1 kHz	330 V to 1 000 V	2 200 mV	
1 kHz to 10 kHz	330 V to 1 000 V	2 600 mV	
Equipment to Measure AC Voltage At the listed frequencies FG			Fluke 45 Euramet-cg-15
45 Hz to 20 kHz	675 mV to 750 V	0.07 % of reading + 225 mV	
45 Hz to 10 kHz	0.75 kV to 30 kV	0.7 % of reading + 30 V	Electrostatic Voltmeter PPC-1-ELE-03 EN 60060-2
Equipment to Output AC Current At the listed frequencies ^{FC})		Fluke 5500A and 50 Tum Coil ANSI C39.1: 81
10 Hz to 10 kHz	0.029 mA to 0.329 9 mA	0.14 % of reading + 0.25 μA	711101 037.11.01
10 Hz to 10 kHz	0.33 mA to 3.299 9 mA	0.12 % of reading + 0.3 μA	
10 Hz to 10 kHz	3.3 mA to 32.999 mA	0.1 % of reading + 3 μA	
10 Hz to 10 kHz	33 mA to 329.99 mA	0.1 % of reading + 30 μA	
10 Hz to 5 kHz	0.33 A to 2.199 99 A	0.16 % of reading + 300 μA	
10 Hz to 3 kHz	2.2 A to 11 A	0.1 % of reading + 2 μA	
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MEASURED INSTRUMENT, QUANTITY OR GAUGE Clamp-On Meters ^{FO} 46 Hz to 65 Hz	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE 10 A to 550 A	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) 0.37 % of reading + 0.04 μA	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED Fluke 5500A and 50 Tum Coil ANSI C39.1: 81
AC Power Generate – Up to 1000 V @ 60 Hz ^{FO}	0.1 mW to 11.22 kW	0.18 % of Output + 0.16 mW	Fluke 5500 A PPC-1-ELE-10 ANSI-C39-1
Temperature Calibration,	-200 °C to -80 °C	0.19 °C	Fluke 5500A and Fluke 741B
Indication and Control	-80 °C to 0 °C	0.19 °C	Electric Simulation of RTD Output PPC-1-TER-04 ANSI-C39.6
Equipment used with RTD Type Pt 385, $100 \Omega^{FO}$	0 °C to 100 °C	0.2 °C	
1) 1) 1 1 1 1 1 1 1 1	100 °C to 300 °C	0.21 °C	110112101111111100010
	300 °C to 400 °C	0.31 °C	
	400 °C to 630 °C	0.45 °C	
	630 °C to 800 °C	0.32 °C	
Temperature Calibration,	-200 °C to -80 °C	0.34 °C	
Indication and Control	-80 °C to 0 °C	0.21 °C	
Equipment used with RTD Type Pt 3916, $100 \Omega^{FO}$	0 °C to 100 °C	0.19 °C	
1,500 1100 1100 1100 1100 1100 1100 1100	100 °C to 300 °C	0.15 °C	
	300 °C to 400 °C	0.21 °C	
	400 °C to 630 °C	0.29 °C	
Temperature Calibration,	-200 °C to -80 °C	/0.21 °C	
Indication and Control Equipment used with RTD	-80 °C to 0 °C	0.19 °C	
Type Pt 3926, $100 \Omega^{FO}$	0 °C to 100 °C	0.15 °C	
-5,1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	100 °C to 300 °C	0.16 °C	
	300 °C to 400 °C	0.17 °C	
	400 °C to 630 °C	0.23 °C	
Temperature Calibration,	-200 °C to -80 °C	0.18 °C	
Indication and Control Equipment used with RTD Type Pt 385, 200 Ω^{FO}	-80 °C to 0 °C	0.13 °C	
	0 °C to 100 °C	0.18 °C	
	100 °C to 260 °C	0.21 °C	
	260 °C to 300 °C	0.19 °C	
	300 °C to 400 °C	0.32 °C	
	400 °C to 600 °C	0.26 °C	



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Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω^{FO}	-200 °C to -80 °C	0.29 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04 ANSI-C39.6
	-80 °C to 0 °C	0.21 °C	
	0 °C to 100 °C	0.19 °C	
	100 °C to 260 °C	0.14 °C	
	300 °C to 400 °C	0.15 °C	
	400 °C to 600 °C	0.31 °C	
	600 °C to 630 °C	0.22 °C	
Temperature Calibration,	-200 °C to -80 °C	0.02 °C	
Indication and Control	-80 °C to 0 °C	0.13 °C	
Equipment used with RTD Type Pt 385, $1000 \Omega^{FO}$	0 °C to 100 °C	0.13 °C	
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100 °C to 260 °C	0.19 °C	
	260 °C °C to 360 °C	0.14 °C	
	300 °C to 400 °C	0.15 °C	
	400 °C to 600 °C	0.15 °C	
	600 °C to 630 °C	0.32 °C	
Temperature Calibration,	-250 °C to -100 °C	0.58 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04 ANSI-C39.6
Indication and Control	-100 °C to -25 °C	0.19 °C	
Equipment used with of Thermocouple Type E ^{FO}	-25 °C to 350 °C	0.17 °C	
Thermocoupie Type E	350 °C to 650 °C	0.19 °C	
	650 °C to 1 000 °C	0.26 °C	
Temperature Calibration,	-210 °C to -100 °C	0.32 °C	
Indication and Control	-100 °C to -30 °C	0.19 °C	
Equipment used with of Thermocouple Type J ^{FO}	-30 °C to 150 °C	0.17 °C	
Thermocoupie Type 3	150 °C to 760 °C	0.19 °C	
	760 °C to 1 200 °C	0.28 °C	
Temperature Calibration,	-200 °C to -100 °C	0.39 °C	
Indication and Control Equipment used with of Thermocouple Type K ^{FO}	-100 °C to -25 °C	0.22 °C	
	-30 °C to 120 °C	0.19 °C	
	120 °C to 1 000 °C	0.31 °C	
	120 C to 1 000 C	0.51 C	



Site – Etalons, S.A. de C.V.

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICESIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSEDAS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Calibration, Indication and Control Equipment used with of Thermocouple Type R ^{FO}	0 °C to 250 °C	0.66 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04 ANSI-C39.6
	250 °C to 400 °C	0.41 °C	
	400 °C to 1 000 °C	0.39 °C	
	1 000 °C to 1 767 °C	0.47 °C	
Temperature Calibration, Indication and Control Equipment used with of Thermocouple Type S ^{FO}	0 °C to 250 °C	0.55 °C	
	250 °C to 400 °C	0.44 °C	
	400 °C to 1 000 °C	0.44 °C	
	1 000 °C to 1 767 °C	0.55 °C	
Temperature Calibration, Indication and Control Equipment used with of Thermocouple Type T ^{FO}	-250 °C to -150 °C	0.76 °C	
	-150 °C to 0 °C	0.29 °C	
	0 °C to 120 °C	0.2 °C	
	120 °C to 400 °C	0.18 °C	

Time & Frequency

Time & Frequency	Time & rrequency				
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED		
Equipment to Output Frequency ^{FO}	0.01 Hz to 2 MHz	0.7 % of reading	Oscilloscope ANSI-C39.6		
Timers ^{FO}	3 600 S	0.6 s	Stopwatch PPC-1-TIE-01 NIST Handbook 105-5		
Patient Monitors ^O ECG: Heart Rate (Beats per minute)	ECG: 30 bpm to 250 bpm	ECG: 0.7 bpm	Prosim 8, Prosim SPOT Light SpO2 Fluke		
Patient Monitors ^O Oximetry: Oxygen Saturation (SpO ₂)	85 % SpO ₂ to 100 % SpO ₂	1.4 % SpO ₂	PPC-1-BIO-2 IEC 62353		
Oximeters ^O Oximetry: Oxygen Saturation (SpO ₂)	85 % SpO2 to 100 % SpO2	1.4 % SpO2	Prosim 8, Prosim SPOT Light SpO2 Fluke		
Oximeters ^O Pulse: Heart Rate	30 bpm to 250 bpm	0.7 bpm	PPC-1-BIO-3		
Electrocardiograph ^O	30 bpm to 250 bpm	0.7 bpm	Prosim 8 Fluke PPC-1-BIO-1 IEC 62353		



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Certificate of Accreditation: Supplement

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

- 1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
- 2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
- 3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
- 4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
- 5. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
- 6. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
- 7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.