

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

QCS Calibration Services S.R.L

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs, Republica Dominican

(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):

Acoustic, Chemical, Dimensional, Mechanical, Electrical, Mass, Force and Weighing Devices, Time & Frequency and Thermodynamic 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:

May 9, 2011

May 14, 2017

June 30, 2019

Revision Date.:

Accreditation No.:

Certificate No.:

April 25, 2018

70268

L17-198-1-R1

Tracy Szerszen President/Operations Manager

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





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

Acoustic

MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	DEVICE SIZE AS	MEASUREMENT	EQUIPMENT
	APPROPRIATE	CAPABILITY EXPRESSED	AND REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Sound Level MeterFO	1.6 dB to 125 dB	4 dB	Quest Electronics

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 Meters, fixed points ^{FO}	4 pH	0.03 pH	pH Buffers
	7 pH	0.04 pH	Fluke 5500
	10 pH	0.03 pH	
Conductivity Meters ^{FO}	10 μS/cm @ 25 °C	0.69 μS/cm	Conductivity Solutions
	100 μS/cm @ 25 °C	2.7 μS/cm	
	1 000 μS/cm @ 25 °C	6.6 μS/cm	
	10 000 μS/cm @ 25 °C	15 μS/cm	

Dimensional

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
Micrometers FO	Up to 12 in	(33.4 + 4.4L) µin	Gage Blocks, Parallels
Calipers FO	Up to 12 in	$(341 + 4.3L) \mu in$	Gage Blocks
Indicators FO	Up to 2 in	(67 + 19L) μin	Micrometer Head Cal Unit, Blocks
Height Gages FO	Up to 12 in	(281 + 10L) µin	Gage Blocks
Gage Blocks F	Up to 4 in	20 μin	Comparator/Master Blocks
Pin Gage FO	0.011 in to 2 in	(342 + 22L) µin	Mahr Micrometer
Rulers & Tapes FO	Up to 48 in	(290 + 4.6L) µin	Ceramic Gage Blocks
Laser Micrometer F	0.01 in to 1 in	34 µin	Class xx pin gages
Microscopes Linear Measurement ^F	1 mm to 25 mm	1.2 μm	Stage Micrometer Calibration Slide KR-812

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	5.3 mV to 20 mV	$5.36 \mu\text{V} + 11.56 \mu\text{V/mV}$	DMM HP 8842A
DC Voltage FO	20 mV to 200 mV	8.1 μV + 99.9 μ V/mV	
	200 mV to 2 V	$18 \mu V + 68.5 \mu V/mV$	
	2 V to 20 V	$419~\mu V + 67~\mu V/~mV$	





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

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	20 V to 200 V	$1.6 \mu V + 0.06 mV/V$	DMM HP 8842A
DC Voltage FO	200 V to 1 000 V	$35 \mu V + 0.09 \text{ mV/ V}$	
Equipment to Measure	15 μA to 200 μA	5.1 μΑ	Fluke 5100
DC Current FO	0.2 mA to 2 mA	0.041 mA	
	2 mA to 20 mA	0.41 mA]
	20 mA to 200 mA	4.1 mA	7
	0.2 A to 2 A	41 mA	7
Equipment to Output	1 mA to 10 mA	$47 \mu A + 840 \mu A/A$	DMM Fluke 8842A
DC Current FO	10 mA to 200 mA	$48 \mu A + 909 \mu A/A$	
	200 mA to 2 A	41 μA + 1.1 mA/A	7
	2 A to 10 A	0.42 mA + 16 mA/A	
Equipment to Output	5 Ω to 200 Ω	$0.048 \text{ m}\Omega + 0.17 \text{ m}\Omega/\Omega$	DMM
DC Resistance FO	$200~\Omega$ to $2~k\Omega$	$0.049 \text{ m}\Omega + 0.137 \text{ m}\Omega/\Omega$	Fluke 8842A
	$2 \text{ k}\Omega$ to $20 \text{ k}\Omega$	$376 \text{ m}\Omega + 0.115 \text{ m}\Omega/\Omega$	
	20 kΩ to 200 kΩ	$3.7 \Omega + 14 \mu\Omega/\Omega$	
	$200 \text{ k}\Omega$ to $2 \text{ M}\Omega$	$39.7 \Omega + 0.345 \text{ m}\Omega/\Omega$	
	$2 \text{ M}\Omega$ to $20 \text{ M}\Omega$	$160 \Omega + 1 \text{ m}\Omega/\Omega$	
Equipment to Measure AC Vo At the listed frequencies FO	oltage		Fluke 5100
50 Hz to 10 kHz	1 mV to 20 mV	0.07 % of reading + 0.120 5 mV	
	20 mV to 200 mV	0.07 % of reading + 1.205 mV	
	0.2 V to 2 V	0.07 % of reading + 0.012 05 V	7
Equipment to Measure AC Vo At the listed frequencies ^{FO}	oltage		
50 Hz to 10 kHz	2 V to 20 V	0.05 % of reading + 0.100 5 V	7
	20 V to 200 V	0.05 % of reading + 1.005 V	
	200 V to 1 100 V	0.05 % of reading + 5.500 5 V	
Equipment to Measure AC Co At the listed frequencies ^{FO}	ırrent		
50 Hz to 1 kHz	20 μA to 200 μA	0.25 % of reading + 0.5 μA	
	0.2 mA to 2 mA	0.25 % of reading + 0.005 mA	
	2 mA to 20 mA	0.25 % of reading + 0.05 mA	
	20 mA to 200 mA	0.25 % of reading + 0.5 mA	
	0.2 A to 2 A	0.25 % of reading + 0.005 A	





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

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 AC Cu At the listed frequencies FO	rrent		DMM HP 8842A
3 Hz to 5 Hz	0.07 A to 1 A	$3.2 \mu\text{A} + 0.03 \text{mA/A}$	
5 Hz to 10 Hz	0.07 A to 1 A	$3.6 \mu A + 0.008 mA/A$	
10 Hz to 5 kHz	0.07 A to 1 A	$3.7 \mu A + 0.007 mA/A$	
Equipment to Output AC Cu At the listed frequencies FO	rrent		
3 Hz to 5 Hz	1 A to 3 A	27 μA + 0.007 mA/A	
5 Hz to 10 Hz	1 A to 3 A	7.1 mA + 2.3 mA/A	
10 Hz to 5 kHz	1 A to 3 A	6.7 mA + 1.9 mA/A	
Equipment to Measure AC V At the listed frequencies FO			Fluke 5500A
10 Hz to 45 Hz	1 mV to 33 mV	0.35 % of reading + 20 μV	
45 Hz to 10 kHz	1 mV to 33 mV	0.15 % of reading + 20 μV	
10 kHz to 20 kHz	1 mV to 33 mV	0.2 % of reading + 20 μV	
20 kHz to 50 kHz	1 mV to 33 mV	0.25 % of reading + 20 μV	
50 kHz to 100 kHz	1 mV to 33 mV	0.35 % of reading + 33 μV	
100 kHz to 500 kHz	1 mV to 33 mV	1 % of reading + 60 μV	
Equipment to Measure AC V At the listed frequencies FO			
10 Hz to 45 Hz	33 mV to 330 mV	0.25 % of reading + 50 μV	
45 Hz to 10 kHz	33 mV to 330 mV	0.05 % of reading + 20 μV	
10 kHz to 20 kHz	33 mV to 330 mV	0.1 % of reading + 20 μV	
20 kHz to 50 kHz	33 mV to 330 mV	0.16 % of reading + 40 μV	
50 kHz to 100 kHz	33 mV to 330 mV	0.24 % of reading + 170 μV	
100 kHz to 500 kHz	33 mV to 330 mV	0.7 % of reading + 330 μV	
Equipment to Measure AC V At the listed frequencies FO			
10 Hz to 45 Hz	330 mV to 3.3 V	0.15 % of reading + 250 μV	
45 Hz to 10 kHz	330 mV to 3.3 V	0.03 % of reading + 60 μV	
10 kHz to 20 kHz	330 mV to 3.3 V	0.08 % of reading + 60 μV	
20 kHz to 50 kHz	330 mV to 3.3 V	0.14 % of reading + 300 μV	
50 kHz to 100 kHz	330 mV to 3.3 V	0.24 % of reading + 1 700 μV	
100 kHz to 500 kHz	330 mV to 3.3 V	0.5 % of reading + 3 300 μV	





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

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 AC \	Voltage Voltage	` ,	Fluke 5500A
At the listed frequencies FO	T	T 0 4 7 1 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	
10 Hz to 45 Hz	3.3 V to 33 V	0.15 % of reading + 2 500 μV	
45 Hz to 10 kHz	3.3 V to 33 V	0.04 % of reading + 600 μV	
10 kHz to 20 kHz	3.3 V to 33 V	0.08 % of reading + 2 600 μV	
20 kHz to 50 kHz	3.3 V to 33 V	0.19 % of reading + 5 000 μ V	
20 kHz to 50 kHz	3.3 V to 33 V	0.19 % of reading + 5 000 μV	
50 kHz to 100 kHz	3.3 V to 33 V	0.24 % of reading + 17 000 μV	
Equipment to Measure AC At the listed frequencies FO	Voltage		
45 Hz to 1 kHz	33 V to 330 V	0.05 % of reading + 6.6 mV	
1 kHz to 10 kHz	33 V to 330 V	0.08 % of reading + 15 mV	
10 kHz to 20 kHz	33 V to 330 V	0.09 % of reading + 33 mV	
Equipment to Measure AC At the listed frequencies FO	Voltage		
45 Hz to 1 kHz	33 V to 330 V	0.05 % of reading + 80 mV	
1 kHz to 5 kHz	33 V to 330 V	0.2 % of reading + 100 mV	
5 kHz to 10 kHz	33 V to 330 V	0.2 % of reading + 500 mV	
Equipment to Measure	1 mV to 330 mV	0.006 % of reading + 3 μV	
DC Voltage FO	330 mV to 3.3 V	0.005 % of reading + 5 μV	
	3.3 V to 33 V	0.005 % of reading + 50 μV	
	50 V to 300 V	0.005 % of reading + 500 μV	
	100 V to 1 000 V	0.005 % of reading + 1 500 μV	
Equipment to Measure	0.33 nF to 0.5 nF	0.5 % of reading + 0.01 nF	
Capacitance	0.5 nF to 1.1 nF	0.5 % of reading + 0.01 nF	
50 Hz to 1 000 Hz FO	1.1 nF to 3.3 nF	0.5 % of reading + 0.01 nF	
	3.3 nF to 11 nF	0.5 % of reading + 0.01 nF	
	11 nF to 33 nF	0.25 % of reading + 0.1 nF	
	33 nF to 110 nF	0.25 % of reading + 0.1 nF	
	110 nF to 330 nF	0.25 % of reading + 0.3 nF	
	0.33 μF to 1.1 μF	0.25 % of reading + 1 nF	
	1.1 μF to 3.3 μF	0.35 % of reading + 3 nF	
	3.3 μF to 11 μF	0.35 % of reading + 10 nF	
	11 μF to 33 μF	0.4 % of reading + 30 nF	





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

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	33 μF to 110 μF	0.5 % of reading + 100 nF	Fluke 5500A
Capacitance 50 Hz to 1 000 Hz FO	110 μF to 330 μF	0.7 % of reading + 300 nF	
30 112 to 1 000 112	330 μF to 1.1 mF	1 % of reading + 300 nF	
Equipment to Measure	1 Ω to 11 Ω	0.012 % of reading + 0.008 Ω	
Resistance FO	11 Ω to 33 Ω	0.012 % of reading + 0.015 Ω	
	33 Ω to 330 Ω	0.009 % of reading + 0.015 Ω	
	330Ω to $3.3 k\Omega$	0.009 % of reading + 0.006 Ω	
	$3.3 \text{ k}\Omega$ to $33 \text{ k}\Omega$	0.009 % of reading + 0.6Ω	
	$33 \text{ k}\Omega \text{ to } 110 \text{ k}\Omega$	0.011 % of reading + 6 Ω	
	110 kΩ to 330 kΩ	0.012 % of reading + 6 Ω	
	$330 \text{ k}\Omega$ to $3.3 \text{ M}\Omega$	0.012% of reading + 55Ω	
	$3.3~\mathrm{M}\Omega$ to $11~\mathrm{M}\Omega$	0.006 % of reading + 550 Ω	
	11 MΩ to 33 MΩ	0.1 % of reading + 550 Ω	
	33 MΩ to 110 MΩ	0.5 % of reading + 5 500 Ω	
	110 MΩ to 330 MΩ	0.5 % of reading + 16 500 Ω	
Temperature Calibration,	-210 °C to -100 °C	2.4 °C	Electrical Simulation of Thermocouple Output Using Fluke 5100 to provide mV signals per NIST Monograph 175 revised to ITS-90
Indication, and Control Equipment use with	-100 °C to -30 °C	2.3 °C	
Thermocouple Type J FO	-30 °C to 150 °C	2.5 °C	
1 71	150 °C to 760 °C	2.7 °C	
	760 °C to 1 200 °C	2.9 °C	
Temperature Calibration,	-200 °C to -100 °C	2.7 °C	
Indication, and Control Equipment use with	-100 °C to -25 °C	2.5 °C	
Thermocouple Type K FO	-25 °C to 120 °C	2.4 °C	
1 71	120 °C to 1 000 °C	2.5 °C	
	1 000 °C to 1 372 °C	2.5 °C	
Temperature Calibration,	-250 °C to -150 °C	2.9 °C	
Indication, and Control	-150 °C to 0 °C	2.5 °C	
Equipment use with Thermocouple Type T FO	0 °C to 120 °C	2.3 °C	
J. J. J.	120 °C to 400 °C	2.2 °C	
Temperature Calibration,	-210 °C to -100 °C	0.69 °C	Electrical Simulation of
Indication, and Control Equipment use with	-100 °C to -30 °C	0.67 °C	Thermocouple Output Using Fluke 5500
Thermocouple Type J FO	-30 °C to 150 °C	0.69 °C	
Jr.	150 °C to 760 °C	0.91 °C	
	760 °C to 1 200 °C	1.1 °C	





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

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
Temperature Calibration,	-200 °C to -100 °C	0.82 °C	Electrical Simulation of
Indication, and Control	-100 °C to -25 °C	0.82 °C	Thermocouple Output
Equipment use with Thermocouple Type K FO	-25 °C to 120 °C	0.92 °C	Using Fluke 5500
Thermocoupie Type It	120 °C to 1 000 °C	1.1 °C	
	1 000 °C to 1 372 °C	1.3 °C	
Temperature Calibration,	-250 °C to -150 °C	0.84 °C	
Indication, and Control	-150 °C to 0 °C	0.82 °C	
Equipment use with Thermocouple Type T FO	0 °C to 120 °C	0.86 °C	
Thermocoupie Type I	120 °C to 400 °C	0.84 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J ^{FO}	-210 °C to 1 200 °C	0.32 °C	Electrical Simulation of Thermocouple Output Fluke 5500A
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K ^{FO}	-210 °C to 1 372 °C	0.41 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T ^{FO}	-250 °C to 400 °C	0.64 °C	
Humidity ^{FO}	0 % RH to 85 % RH	1.2 % RH	RELATIVE HUMIDITY METER VAISALA HMC 20 WITH HMP20 B PROBE/ Control Company Model 244-355

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Analytical Balances/Scales FO	1 mg to 300 mg	$(1.02 \times 10^{-2} + 1.21 \times 10^{-7} \text{Wt}) \text{ g}$	Class 1 Standards
Industrial Scales and Balances FO	5 lb to 20 000 lb	14 lb	Class F Standards, NIST Handbook 44
Balances FO	1 g to 500 g	0.85 g	Class 1 kit
	5 g to 300 g	12 mg	
	1 kg to 20 kg	32 mg	Class F standards





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Pressure Gauges FO	10 psig to 600 psig	0.72 % of reading + 3 psi	Hiess PTE/Ashcroft
Vacuum Gauges FO	-12 psi to 1 psi	1 % of reading + 0.56 psi	Heis PTE-1 33k6-4-430-1
Torque Wrenches FO	5 lbf·in to 600 lbf·in	1.5 % of reading	Acratork L1,
Indirect Verification of	20 HRC to 30 HRC	0.57 HRC	ASTM E 18 and calibrated Rockwell Hardness Test Blocks
Rockwell Hardness Testers HRC FO	30 HRC to 60 HRC	0.57 HRC	
	60 HRC to 65 HRC	0.58 HRC	
Pipettes FO	100 μL to 200 μL	0.11 μL	Sartorius Micro Balance.
	200 μL to 2 000 μL	1.5 μL	Gravimetric record reference to mass balances
	2 000 μL to 10 000 μL	4.9 μL	mass varances
Pressure Gauges FO	10 psig to 15 000 psig	0.72 % of reading + 2.5 psi	Heis PTE-1/Ashcroft
Vacuum Gauges FO	-12 psi to 1 psi	1 % of reading + 0.56 psi	Heis PTE-1

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Thermometers- Infrared/Pyrometers FO	35 °C to 550 °C	3 °C	ISOTech Gemini I Model 976
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J FO	-210 °C to 1 200 °C	0.32 °C	Electrical Simulation of Thermocouple Output Fluke 5500A
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K FO	-210 °C to 1 372 °C	0.41 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T FO	-250 °C to 400 °C	0.64 °C	
Humidity ^{FO}	0 % RH to 85 % RH	1.2 % RH	RELATIVE HUMIDITY METER VAISALA HMC 20 WITH HMP20 B PROBE/ Control Company Model 244- 355





QCS Calibration Services S.R.L.

Avenida Luis Amiama Tio, Plaza Rem, Local 1-C, San Pedro de Macorìs Republic Dominicana

Contact Name: Mark Rudek Phone: 829-333-5860

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

Time and Frequency

MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	DEVICE SIZE AS	MEASUREMENT	EQUIPMENT
	APPROPRIATE	CAPABILITY EXPRESSED	AND REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Stop Watch ^{FO}	2.8 s to 24 hrs	0.24 s	Control Company Model
			1051

- 1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represent the smallest measurement uncertainties attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is 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 MicrometerF would mean that the laboratory performs this calibration at its fixed location.
- 4. 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.
- 5. When calibrations are performed at customer locations the resulting measurement uncertainty associated with the calibration will typically be larger than the CMC stated on this scope of accreditation. This is due in large part to variation of environmental conditions at customer facilities, the effects of transport on any standards or equipment taken to customer sites and the resolution and repeatability unique to the device being calibrated.
- 6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
- 7. The term L represents length in inches or millimeters appropriate to the uncertainty statement.