

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***BML Services Inc
527 William Branch Dr
Morganton, GA 30560***

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

ISO/IEC 17025: 2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-PLAC-IAF Communiqué dated January 2009):

***Electrical, Time & Frequency, Dimensional, Mass, Force & Weighing Device
Mechanical and Thermodynamic Calibration
(As detailed in the supplement)***

Such testing and/or calibration services shall only be offered at or from the address given above. 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:

The validity of this certificate is mandated through ongoing surveillance.

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
26555 Evergreen, Suite 1325
Southfield, Michigan 48076

Initial Accreditation Date:

December 09, 2008

Issue Date:

December 09, 2008

Revision Date:

January 30, 2009

Expiration Date:

December 08, 2010

Accreditation No.

59063

Certificate No.

L08-100-R1

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Certificate of Accreditation: Supplement

BML Services Inc
527 William Branch Dr
Morganton, GA 30560

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

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
DC Voltage Source	0 mV to 330 mV	0.06 % of reading + 3 μ V	Fluke 5500A
	330 mV to 3.3 V	0.05 % of reading + 5 μ V	
	3.3 V to 33 V	0.05 % of reading + 50 μ V	
	33 V to 330 V	0.055 % of reading + 500 μ V	
	330 V to 1 020 V	0.055 % of reading + 1 500 μ V	
DC Voltage Measure	0 mV to 100 mV	0.001 1 % of reading + 0.3 μ V	HP 3458A
	100 mV to 1 V	0.001 % of reading + 0.3 μ V	
	1 V to 10 V	0.001 % of reading + 5 μ V	
	10 V to 100 V	0.001 2 % of reading + 30 μ V	
	100 V to 1 000 V	0.001 2 % of reading + 100 μ V	
DC Voltage High	0 kV to 2 kV	0.04 % of reading + 0.4 V	Vitretek 4600A
	0 kV to 20 kV	0.04 % of reading + 4 V	
	0 kV to 70 kV	0.04 % of reading + 14 V	
DC Current Source	0 mA to 3.3 mA	0.13 % of reading + 0.05 μ A	Fluke 5500A
	3.3 mA to 33 mA	0.01 % of reading + 0.25 μ A	
	33 mA to 330 mA	0.01 % of reading + 3.3 μ A	
	330 mA to 2.2 A	0.33 % of reading + 0.44 μ A	
	2.2 A to 11 A	0.06 % of reading + 330 μ A	
DC Current Measure	10 μ A to 100 μ A	0.002 5 % of reading + 0.8 nA	HP 3458A
	100 μ A to 1 mA	0.002 5 % of reading + 5 nA	
	1 mA to 10 mA	0.002 5 % of reading + 50 nA	
	10 mA to 100 mA	0.004 % of reading + 0.5 μ A	
	100 mA to 1 A	0.011 5 % of reading + 10 μ A	

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DC Current Measure	0 A to 2 A	0.01 % of reading + 10 μ A	HP 3458A
	0 mA to 200 mA	0.01 % of reading + 10 μ A	
	0 mA to 20 mA	0.01 % of reading + 10 μ A	
	0 mA to 2 mA	0.01 % of reading + 10 μ A	
	0 μ A to 200 μ A	0.01 % of reading + 10 μ A	
DC Current Clamp-on Measure Fluke 337	0 A to 1 000 A	2 % of reading + 0.5 A	Clamp-on Measure Fluke 337
DC Current Clamp-on Measure Soar 2200	200 A to 1 000 A	1.2 % of reading + 5 A	Clamp-on Measure Soar 2200
	0 A to 200 A	1.2 % of reading + 0.5 A	
AC Voltage Source	1 mV to 33 mV	0.35 % of reading + 20 μ V	Fluke 5500A @ 10 Hz to 45 Hz
	33 mV to 330 mV	0.25 % of reading + 50 μ V	
	0.33 V to 3.3 V	0.15 % of reading + 250 μ V	
	3.3 V to 33 V	0.15 % of reading + 2.5 mV	
AC Voltage Source	1 mV to 33 mV	0.15 % of reading + 20 μ V	Fluke 5500A @ 45 Hz to 10 kHz
	33 mV to 330 mV	0.05 % of reading + 50 μ V	
	0.33 V to 3.3 V	0.03 % of reading + 60 μ V	
	3.3 V to 33 V	0.04 % of reading + 0.6 mV	
AC Voltage Source	1 mV to 33 mV	0.2 % of reading + 20 μ V	Fluke 5500A @ 10 kHz to 20 kHz
	33 mV to 330 mV	0.1 % of reading + 50 μ V	
	0.33 V to 3.3 V	0.08 % of reading + 60 μ V	
	3.3 V to 33 V	0.08 % of reading + 2.6 mV	
AC Voltage Source	1 mV to 33 mV	0.25 % of reading + 20 μ V	Fluke 5500A @ 20 kHz to 50 kHz
	33 mV to 330 mV	0.16 % of reading + 40 μ V	
	0.33 V to 3.3 V	0.14 % of reading + 300 μ V	
	3.3 V to 33 V	0.19 % of reading + 5 mV	
AC Voltage Source	1 mV to 33 mV	0.35 % of reading + 33 μ V	Fluke 5500A @ 50 kHz to 100 kHz
	33 mV to 330 mV	0.24 % of reading + 170 μ V	
	0.33 V to 3.3 V	0.24 % of reading + 1.7 mV	
	3.3 V to 33 V	0.24 % of reading + 17 mV	

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AC Voltage Source	1 mV to 33 mV	1 % of reading + 60 μ V	Fluke 5500A @ 100 kHz to 500 kHz Fluke 5500A
	33 mV to 330 mV	0.7 % of reading + 330 μ V	
	0.33 V to 3.3 V	0.5 % of reading + 3.3 mV	
AC Voltage Source	33 V to 330 V	0.05 % of reading + 6.6 mV	Fluke 5500A @ 45 Hz to 1 kHz
	330 V to 1 020 V	0.05 % of reading + 80 mV	
AC Voltage Source	33 V to 330 V	0.08 % of reading + 15 mV	Fluke 5500A @ 1 kHz to 10 kHz
AC Voltage Source	33 V to 330 V	0.09 % of reading + 33 mV	Fluke 5500A @ 10 kHz to 20 kHz
AC Voltage Source	330 V to 1 020 V	0.2 % of reading + 100 mV	Fluke 5500A @ 1 kHz to 5 kHz
AC Voltage Source	330 V to 1 020 V	0.2 % of reading + 500 mV	Fluke 5500A @ 5 kHz to 10 kHz
AC Voltage Measure	3 μ V to 10 mV	0.03 % of reading + 3 μ V	HP 3458A 1 Hz to 40 Hz
	10 mV to 100 mV	0.007 2 % of reading + 4 μ V	
	100 mV to 1 V	0.007 2 % of reading + 40 μ V	
	1 V to 10 V	0.007 2 % of reading + 0.4 mV	
	10 V to 100 V	0.02 % of reading + 4 mV	
	100 V to 700 V	0.05 % of reading + 40 mV	
AC Voltage Measure	3 μ V to 10 mV	0.02 % of reading + 1.1 μ V	HP 3458A 40 Hz to 1 kHz
	10 mV to 100 mV	0.007 2 % of reading + 2 μ V	
	100 mV to 1 V	0.007 2 % of reading + 20 μ V	
	1 V to 10 V	0.007 2 % of reading + 0.2 mV	
	10 V to 100 V	0.02 % of reading + 2 mV	
	100 V to 700 V	0.05 % of reading + 20 mV	
AC Voltage Measure	3 μ V to 10 mV	0.03 % of reading + 1.1 μ V	HP 3458A 1 kHz to 20 kHz
	10 mV to 100 mV	0.014 % of reading + 2 μ V	
	100 mV to 1 V	0.014 % of reading + 20 μ V	
	1 V to 10 V	0.014 % of reading + 0.2 mV	
	10 V to 100 V	0.02 % of reading + 2 mV	
	100 V to 700 V	0.07 % of reading + 20 mV	

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AC Voltage Measure	3 μ V to 10 mV	0.1 % of reading + 1.1 μ V	HP 3458A 20 kHz to 50 kHz
	10 mV to 100 mV	0.03 % of reading + 2 μ V	
	100 mV to 1 V	0.03 % of reading + 20 μ V	
	1 V to 10 V	0.03 % of reading + 0.2 mV	
	10 V to 100 V	0.035 % of reading + 2 mV	
	100 V to 700 V	0.14 % of reading + 20 mV	
AC Voltage Measure	3 μ V to 10 mV	0.5 % of reading + 1.1 μ V	HP 3458A 50 kHz to 100 kHz
	10 mV to 100 mV	0.08 % of reading + 2 μ V	
	100 mV to 1 V	0.08 % of reading + 20 μ V	
	1 V to 10 V	0.08 % of reading + 0.2 mV	
	10 V to 100 V	0.12 % of reading + 2 mV	
	100 V to 700 V	0.35 % of reading + 20 mV	
AC Voltage Measure	3 μ V to 10 mV	4 % of reading + 2 μ V	HP 3458A 100 kHz to 300 kHz
	10 mV to 100 mV	0.3 % of reading + 10 μ V	
	100 mV to 1 V	0.3 % of reading + 100 μ V	
	1 V to 10 V	0.3 % of reading + 1 mV	
	10 V to 100 V	0.4 % of reading + 10 mV	
AC Voltage Measure	10 mV to 100 mV	1 % of reading + 10 μ V	HP 3458A 0.3 MHz to 1 MHz
	100 mV to 1 V	1 % of reading + 100 μ V	
	1 V to 10 V	1 % of reading + 1 mV	
	10 V to 100 V	1.5 % of reading + 10 mV	
AC Voltage Measure	10 mV to 100 mV	1.7 % of reading + 10 μ V	HP 3458A 1 MHz to 2 MHz
	100 mV to 1 V	1.5 % of reading + 100 μ V	
	1 V to 10 V	1.5 % of reading + 1 mV	
AC Current Source	0.029 mA to 0.33 mA	0.25 % of reading + 0.15 μ A	Fluke 5500A 10 Hz to 20 Hz
	0.33 mA to 3.3 mA	0.2 % of reading + 0.3 μ A	
	3.3 mA to 33 mA	0.2 % of reading + 30 μ A	
	33 mA to 330 mA	0.2 % of reading + 30 μ A	
AC Current Source	0.029 mA to 0.33 mA	0.125 % of reading + 0.15 μ A	Fluke 5500A 20 Hz to 45 Hz
	0.33 mA to 3.3 mA	0.1 % of reading + 0.3 μ A	
	3.3 mA to 33 mA	0.21 % of reading + 30 μ A	
	33 mA to 330 mA	0.1 % of reading + 30 μ A	

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AC Current Source	0.029 mA to 0.33 mA	0.125 % of reading + 0.25 μ A	Fluke 5500A 45 Hz to 1 kHz
	0.33 mA to 3.3 mA	0.1 % of reading + 0.3 μ A	
	3.3 mA to 33 mA	0.09 % of reading + 30 μ A	
	33 mA to 330 mA	0.09 % of reading + 30 μ A	
AC Current Source	0.029 mA to 0.33 mA	0.4 % of reading + 0.15 μ A	Fluke 5500A 1 kHz to 5 kHz
	0.33 mA to 3.3 mA	0.2 % of reading + 0.3 μ A	
	3.3 mA to 33 mA	0.2 % of reading + 30 μ A	
	33 mA to 330 mA	0.2 % of reading + 30 μ A	
AC Current Source	0.029 mA to 0.33 mA	0.125 % of reading + 0.15 μ A	Fluke 5500A 5 kHz to 10 kHz
	0.33 mA to 3.3 mA	0.6 % of reading + 0.3 μ A	
	3.3 mA to 33 mA	0.6 % of reading + 30 μ A	
	33 mA to 330 mA	0.6 % of reading + 30 μ A	
AC Current Source	0.33 A to 2.2 A	0.2 % of reading + 300 μ A	Fluke 5500A 10 Hz to 45 Hz
AC Current Source	0.33 A to 2.2 A	0.1 % of reading + 300 μ A	Fluke 5500A 45 Hz to 1 kHz
AC Current Source	0.33 A to 2.2 A	0.75 % of reading + 300 μ A	Fluke 5500A 1 kHz to 5 kHz
AC Current Source	2.2 A to 11 A	0.06 % of reading + 2 mA	Fluke 5500A 45 Hz to 65 Hz
AC Current Source	2.2 A to 11 A	0.1 % of reading + 2 mA	Fluke 5500A 65 Hz to 500 Hz
AC Current Source	2.2 A to 11 A	0.33 % of reading + 2 mA	Fluke 5500A 500 Hz to 1 kHz
AC Current Source	0 μ A to 200 μ A	0.185 % of reading + 0.2 μ A	Ballantine 1620A 0 kHz to 10 kHz
	0 mA to 2 mA	0.17 % of reading + 2 μ A	
	0 mA to 200 mA	0.17 % of reading + 0.2 μ A	
	0 A to 2 A	0.17 % of reading + 2 μ A	

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AC Current Source	20 A to 100 A	0.19 % of reading + 0.1 A	Ballantine 1620A 0 kHz to 1 kHz
AC Current Measure	1 μ A to 100 μ A	0.06 % of reading + 0.2 μ A	HP 3458A 45 Hz to 100 Hz
	1 mA to 100 mA	0.06 % of reading + 0.02 % of range	
	100 mA to 1 A	0.08 % of reading + 0.2 mA	
AC Current Measure	0 A to 100 A	0.1 % of reading + 10 μ A	Ballantine 1625A 10 Hz to 1 kHz
	0 A to 20 A	0.1 % of reading + 10 μ A	
AC Current Measure	0 A to 20 A	0.5 % of reading + 10 μ A	Ballantine 1625A 1 kHz to 5 kHz
AC Current Measure	0 A to 2 A	0.1 % of reading + 10 μ A	Ballantine 1625A 10 Hz to 10 kHz
	0 mA to 200 mA	0.1 % of reading + 10 μ A	
	0 mA to 20 mA	0.1 % of reading + 10 μ A	
	0 mA to 2 mA	0.15 % of reading + 10 μ A	
	0 mA to 0.2 mA	0.2 % of reading + 10 μ A	

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AC Power Measure	Up to 200 W	0.9 % of reading + 0.5 W	
	Up to 2 000 W	0.9 % of reading + 5 W	
DC Power Source	3.3 mA to 9 mA	0.04 % of watts output	33 mV to 1 kV
	9 mA to 33 mA	0.03 % of watts output	
	33 mA to 90 mA	0.04 % of watts output	
	90 mA to 330 mA	0.03 % of watts output	
	0.33 A to 0.9 A	0.08 % of watts output	
	0.9 A to 2.2 A	0.06 % of watts output	
	2.2 A to 4.5 A	0.12 % of watts output	
	4.5 A to 11 A	0.09 % of watts output	
DC Power Measure	Up to 200 W	0.9 % of reading + 0.5 W	
	Up to 2 000 W	0.9 % of reading + 5 W	
Resistance Source	0 Ω to 11 Ω	0.012 % of reading + 0.008 Ω	Fluke 5500A
	11 Ω to 33 Ω	0.012 % of reading + 0.015 Ω	
	33 Ω to 110 Ω	0.009 % of reading + 0.015 Ω	
	110 Ω to 330 Ω	0.009 % of reading + 0.015 Ω	
	330 Ω to 1.1 k Ω	0.009 % of reading + 0.06 Ω	
	1.1 k Ω to 3.3 k Ω	0.009 % of reading + 0.06 Ω	
	3.3 k Ω to 11 k Ω	0.009 % of reading + 0.6 Ω	
	11 k Ω to 33 k Ω	0.009 % of reading + 0.6 Ω	
	33 k Ω to 110 k Ω	0.011 % of reading + 6 Ω	
	110 k Ω to 330 k Ω	0.012 % of reading + 6 Ω	
	330 k Ω to 1.1 M Ω	0.015 % of reading + 55 Ω	
	1.1 M Ω to 3.3 M Ω	0.015 % of reading + 55 Ω	
	3.3 M Ω to 11 M Ω	0.06 % of reading + 550 Ω	
	11 M Ω to 33 M Ω	0.1 % of reading + 550 Ω	
	33 M Ω to 110 M Ω	0.5 % of reading + 5 500 Ω	
110 M Ω to 330 M Ω	0.5 % of reading + 16 500 Ω		
Resistance Measure	0 Ω to 10 Ω	0.001 8 % of reading + 50 $\mu\Omega$	HP 3458A
	10 Ω to 100 Ω	0.001 5 % of reading + 0.5 m Ω	
	100 Ω to 1 k Ω	0.001 3 % of reading + 0.5 m Ω	
	1 k Ω to 10 k Ω	0.001 3 % of reading + 5 m Ω	
	10 k Ω to 100 k Ω	0.001 3 % of reading + 50 m Ω	

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Resistance Measure	100 k Ω to 1 M Ω	0.001 8 % of reading + 2 Ω	HP 3458A
	1 M Ω to 10 M Ω	0.005 3 % of reading + 100 Ω	
	10 M Ω to 100 M Ω	0.05 % of reading + 1 000 Ω	
	100 M Ω to 1 G Ω	0.5 % of reading + 10 k Ω	
Capacitance Source	0.33 nF to 11 nF	0.5 % of reading + 0.01 nF	Fluke 5500A
	11 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 μ F to 1.1 μ F	0.25 % of reading + 1 nF	
	1.1 μ F to 3 μ F	0.35 % of reading + 3 nF	
	3.3 μ F to 11 μ F	0.35 % of reading + 10 nF	
	11 μ F to 33 μ F	0.4 % of reading + 30 nF	
	33 μ F to 110 μ F	0.5 % of reading + 100 nF	
	110 μ F to 330 μ F	0.7 % of reading + 300 nF	
330 μ F to 1.1 mF	1 % of reading + 300 nF		
Temperature Source	-210 $^{\circ}$ C to -100 $^{\circ}$ C	0.27 $^{\circ}$ C	Type J Fluke 5500A
	-100 $^{\circ}$ C to -30 $^{\circ}$ C	0.16 $^{\circ}$ C	
	-30 $^{\circ}$ C to 150 $^{\circ}$ C	0.14 $^{\circ}$ C	
	150 $^{\circ}$ C to 760 $^{\circ}$ C	0.17 $^{\circ}$ C	
	760 $^{\circ}$ C to 1 200 $^{\circ}$ C	0.23 $^{\circ}$ C	
Temperature Source	-200 $^{\circ}$ C to -100 $^{\circ}$ C	0.33 $^{\circ}$ C	Type K Fluke 5500A
	-100 $^{\circ}$ C to -25 $^{\circ}$ C	0.18 $^{\circ}$ C	
	-25 $^{\circ}$ C to 120 $^{\circ}$ C	0.16 $^{\circ}$ C	
	120 $^{\circ}$ C to 1 000 $^{\circ}$ C	0.26 $^{\circ}$ C	
	1 000 $^{\circ}$ C to 1 372 $^{\circ}$ C	0.4 $^{\circ}$ C	
Temperature Source	-250 $^{\circ}$ C to -150 $^{\circ}$ C	0.63 $^{\circ}$ C	Type T Fluke 5500A
	-150 $^{\circ}$ C to 0 $^{\circ}$ C	0.24 $^{\circ}$ C	
	0 $^{\circ}$ C to 120 $^{\circ}$ C	0.16 $^{\circ}$ C	
	120 $^{\circ}$ C to 400 $^{\circ}$ C	0.14 $^{\circ}$ C	

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Temperature Source	-200 °C to -80 °C	0.05 °C	RTD Pt 395 100 Ω Fluke 5500A
	-80 °C to 0 °C	0.05 °C	
	0 °C to 100 °C	0.07 °C	
	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.1 °C	
	400 °C to 630 °C	0.12 °C	
	630 °C to 800 °C	0.23 °C	
Temperature Source	-200 °C to -80 °C	0.03 °C	RTD Pt 395 1 000 Ω Fluke 5500A
	-80 °C to 0 °C	0.03 °C	
	0 °C to 100 °C	0.04 °C	
	100 °C to 260 °C	0.05 °C	
	260 °C to 300 °C	0.06 °C	
	300 °C to 400 °C	0.07 °C	
	400 °C to 630 °C	0.07 °C	
	630 °C to 800 °C	0.23 °C	
Temperature Source	33 °C to 100 °C	0.5 °C	Hart 9100
	100 °C to 300 °C	1.0 °C	
Temperature Measure	-196 °C to -100 °C	0.27 °C	Type J Fluke 5500A
	-100 °C to -30 °C	0.16 °C	
	-30 °C to 150 °C	0.14 °C	
	150 °C to 760 °C	0.17 °C	
	760 °C to 1 200 °C	0.23 °C	
Temperature Measure	-196 °C to -100 °C	0.33 °C	Type K Fluke 5500A
	-100 °C to -25 °C	0.18 °C	
	-25 °C to 120 °C	0.16 °C	
	120 °C to 1 000 °C	0.26 °C	
	1 000 °C to 1 372 °C	0.4 °C	
Temperature Measure	-196 °C to -150 °C	0.63 °C	Type T Fluke 5500A
	-150 °C to 0 °C	0.24 °C	
	0 °C to 120 °C	0.16 °C	
	120 °C to 400 °C	0.14 °C	

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Temperature Measure	-196 °C to -80 °C	0.05 °C	RTD Pt 395 100 Ω Fluke 5500A
	-80 °C to 0 °C	0.05 °C	
	0 °C to 100 °C	0.07 °C	
	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.1 °C	
	400 °C to 630 °C	0.12 °C	
	630 °C to 800 °C	0.23 °C	
Temperature Measure	-196 °C to -80 °C	0.03 °C	RTD Pt 395 1 000 Ω Fluke 5500A
	-80 °C to 0 °C	0.03 °C	
	0 °C to 100 °C	0.04 °C	
	100 °C to 260 °C	0.05 °C	
	260 °C to 300 °C	0.06 °C	
	300 °C to 400 °C	0.07 °C	
	400 °C to 630 °C	0.07 °C	
	630 °C to 800 °C	0.23 °C	
	90 % RH to 100 % RH	2 % RH	

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Humidity Source	0 % RH to 10 % RH	4 % RH	General Eastern RHCL
	10 % RH to 20 % RH	2 % RH	
	20 % RH to 80 % RH	1 % RH	
	80 % RH to 90 % RH	2 % RH	
	90 % RH to 100 % RH	4 % RH	
Humidity Measure	0 % RH to 90 % RH	1 % RH	Vaisala

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Time & Frequency

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Bandwidth	0.25 MHz to 250 MHz	3.5 % of amplitude setting	TEK SG503 50 kHz ref.
Frequency Source	0.01 Hz to 12 kHz	0.002 5 % of reading + 1 mHz	Fluke 5500A
	12 kHz to 2 MHz	0.002 5 % of reading + 15 mHz	
Frequency Measure	0 MHz to 500 MHz	0.001 % of reading	HP 5345A
Timer Source	1 s to 3 h	0.5 s	HP 5345A
Timer Measure	0 s to 999 s	1 LSD	Dobie FT2
	0 s to 3 600 s	0.53 s	VWR Stopwatch
	0 s to 9 999 h	0.025 % of reading + 30 ms	Red Lion CUB7T

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Outside Diameter	0 cm to 5.08 cm (0 in to 2 in)	0.003 mm (0.000 12 in)	Keyence LaserMike
Outside Diameter	0 cm to 2.54 cm (0 in to 1 in)	2.54 μ m (0.000 1 in)	Mitutoyo Micrometer
Outside Diameter	0 cm to 15.24 cm (0 in to 6 in)	25.4 μ m (0.001 in)	Mitutoyo Caliper

Certificate of Accreditation: Supplement

BML Services Inc
527 William Branch Dr
Morganton, GA 30560

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

Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Force Mark -10	0 kg to 227 kg (0 lb to 500 lb)	567 g (1.3 lb)	Mark -10
	0 kg to 2 268 kg (0 lb to 5 000 lb)	5.67 kg (13 lb)	

Mechanical

CALIBRATION FIELD	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	REMARKS
Pressure Source	0 kPa to 689.5 kPa (0 psi to 100 psi)	1.72 kPa (0.25 psi)	Metron 350
	689.5 kPa to 13 789.5 kPa (100 psi to 2 000 psi)	34.47 kPa (5.0 psi)	
Pressure Measure	0 kPa to 689.5 kPa (0 psi to 100 psi)	1.72 kPa (0.25 psi)	Metron 350
	689.5 kPa to 13 789.5 kPa (100 psi to 2 000 psi)	34.47 kPa (5.0 psi)	
Pressure Measure	0 kPa to 248 kPa (0 psi to 36 psi)	0.25 % of reading + 27.58 kPa (0.004 psi)	Crystal 33
	0 kPa to 20 684 kPa (0 psi to 3 000 psi)	0.05 % of reading + 1.034 kPa (0.15 psi)	
Vacuum Measure	0 kPa to 101 kPa (0 psi to 14.7 psi)	0.25 % of reading + 27.58 kPa (0.004 psi)	Crystal 33
Vacuum Source	0 kPa to 101 kPa (0 psi to 14.7 psi)	0.25 % of reading + 27.58 kPa (0.004 psi)	Crystal 33 w/Ametek T-750
Torque Measure	0 N·m to 5.7 N·m (0 lbf·in to 50 lbf·in)	0.025 N·m (0.23 lbf·in)	Mark 10
	0 N·m to 112.9 N·m (0 lbf·in to 1 000 lbf·in)	0.79 Nm (7 lbf·in)	
	0 N·m to 564.9 N·m (0 lbf·in to 5 000 lbf·in)	3.95 N·m (35 lbf·in)	
Tachometer	20 rpm to 29 999 rpm	0.01 % of reading + LSD	Ametek 1965
	120 rpm to 99 999 rpm	0.01 % of reading + LSD	

1. Remarks: This column shall include pertinent information about the calibration of the Measured Instrument or parameter. The information should include the type of standards used and any pertinent method information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.