



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Enviren Calibrations

202 State Street, Binghamton, NY 13905

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

ISO/IEC 17025:2017 & Meets the Requirements of ANSI/NCSL Z540.3-2006

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, Electrical, Mechanical, and Thermodynamic Instruments 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

Initial Accreditation Date:

April 08, 2014

Issue Date:

August 31, 2022

Expiration Date:

August 31, 2024

Revision Date

July 07, 2023

Accreditation No:

76664

Certificate No:

L22-581-R1

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.pjilabs.com



Certificate of Accreditation: Supplement

Enviren Calibrations

202 State Street, Binghamton, NY 13905
 Contact Name: Mr. David Carter Phone: 607-723-0999

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 (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure DC Voltage ^F	33 mV to 329.9 mV	0.001 6 % of value + 0.000 81 mV	Fluke 5520A WI 7.2.1-48
	329.9 V to 3.29 V	0.000 46 % of value + 0.021 mV	
	3.29 V to 32.9 V	0.000 84 % of value + 0.067 mV	
	30 V to 329.9 V	0.001 4 % of value + 0.12 mV	
	100 V to 1 000 V	0.001 4 % of value + 1.9 mV	
Equipment to Measure Resistance ^F	33 μ A to 329.9 μ A	0.012 % of value + 0.016 μ A	
	329.9 mA to 3.29 mA	0.007 5 % of value + 0.05 μ A	
	3.29 mA to 32.9 mA	0.007 4 % of value + 0.34 μ A	
	32.9 mA to 329.9 mA	0.006 5 % of value + 6.9 μ A	
	0.1 A to 1.09 A	0.015 % of value + 0.038 mA	
	1.1 A to 2.9 A	0.028 % of value + 0.1 mA	
	2.9 A to 10.9 A	0.036 % of value + 0.73 mA	
	11 A to 20.5A	0.077 % of value + 0.79 mA	
	0.1 Ω to 10.9 Ω	0.003 1 % of value + 0.000 78 Ω	
	11 Ω to 32.9 Ω	0.002 4 % of value + 0.001 2 Ω	
	33 Ω to 109.9 Ω	0.002 2 % of value + 0.001 1 Ω	
	110 Ω to 329.9 Ω	0.002 2 % of value + 0.001 6 Ω	
	330 k Ω to 1.09 k Ω	0.002 2 % of value + 0.001 5 Ω	
	110 Ω to 329.9 Ω	0.002 4 % of value + 0.014 Ω	
	330 k Ω to 1.09 k Ω	0.002 3 % of value + 0.016 Ω	
	1.1 k Ω to 3.29 k Ω	0.002 3 % of value + 0.15 Ω	
	3.3 k Ω to 10.9 k Ω	0.002 3 % of value + 0.000 15 k Ω	
	11 k Ω to 32.9 k Ω	0.002 6 % of value + 0.001 5 k Ω	
	33 k Ω to 109.9 k Ω	0.25 % of value + 1.6 Ω	
	110 k Ω to 329.9 M Ω	0.48 % of value + 22 Ω	
	330 k Ω to 1.09 M Ω	0.01 % of value + 0.039 k Ω	
	1.1 M Ω to 3.29 M Ω	0.021 % of value + 0.001 8 M Ω	
	3.3 M Ω to 10.9 M Ω	0.04 % of value + 0.002 1 M Ω	
	11 M Ω to 32.9 M Ω	0.24 % of value + 0.075 M Ω	
33 M Ω to 109.9 M Ω	0.27 % of value + 23 M Ω		
110 M Ω to 329.9 M Ω	0.003 1 % of value + 0.000 78 Ω		
330 M Ω to 1 100 M Ω	0.002 4 % of value + 0.001 2 Ω		



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Equipment to Measure AC Voltage (at the listed frequencies) ^F			Fluke 5520A WI 7.2.1-48
10 Hz to 45 Hz	1 mV to 32.9 mV	0.06 % of value + 0.005 5 mV	
45 Hz to 10 kHz	1 mV to 32.9 mV	0.008 3 % of value + 0.007 9 mV	
10 kHz to 20 kHz	1 mV to 32.9 mV	0.006 9 % of value + 0.011 mV	
20 kHz to 50 kHz	1 mV to 32.9 mV	0.061 % of value + 0.013 mV	
50 kHz to 100 kHz	1 mV to 32.9 mV	0.27 % of value + 0.012 mV	
100 kHz to 500 kHz	1 mV to 32.9 mV	0.13 % of value + 0.33 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 45 Hz	33 mV to 329.9 mV	0.023 % of value + 0.009 3 mV	
45 Hz to 10 kHz	33 mV to 329.9 mV	0.01 % of value + 0.01 mV	
10 kHz to 20 kHz	33 mV to 329.9 mV	0.012 % of value + 0.01 mV	
20 kHz to 50 kHz	33 mV to 329.9 mV	0.025 % of value + 0.013 mV	
50 kHz to 100 kHz	33 mV to 329.9 mV	0.061 % of value + 0.031 mV	
100 kHz to 500 kHz	33 mV to 329.9 mV	0.15 % of value + 0.082 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 45 Hz	0.33 V to 3.29 V	0.022 % of value + 0.074 mV	
45 Hz to 10 kHz	0.33 V to 3.29 V	0.011 % of value + 0.093 mV	
10 kHz to 20 kHz	0.33 V to 3.29 V	0.014 % of value + 0.087 mV	
20 kHz to 50 kHz	0.33 V to 3.29 V	0.022 % of value + 0.087 mV	
50 kHz to 100 kHz	0.33 V to 3.29 V	0.053 % of value + 0.16 mV	
100 kHz to 500 kHz	0.33 V to 3.29 V	0.18 % of value + 0.84 mV	



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Equipment to Measure AC Voltage (at the listed frequencies) ^F			Fluke 5520A WI 7.2.1-48
10 Hz to 45 Hz	3.3 V to 32.9 V	0.022 % of value + 0.82 mV	
45 Hz to 10 kHz	3.3 V to 32.9 V	0.011 % of value + 0.9 mV	
10 kHz to 20 kHz	3.3 V to 32.9 V	0.018 % of value + 0.84 mV	
20 kHz to 50 kHz	3.3 V to 32.9 V	0.026 % of value + 1 mV	
50 kHz to 100 kHz	3.3 V to 32.9 V	0.068 % of value + 2 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
45 Hz to 1 kHz	33 V to 329.9 V	0.013 % of value + 9.5 mV	
1 kHz to 10 kHz	33 V to 329.9 V	0.014 % of value + 11 mV	
10 kHz to 20 kHz	33 V to 329.9 V	0.014 % of value + 11 mV	
20 kHz to 50 kHz	33 V to 329.9 V	0.018 % of value + 26 mV	
50 kHz to 100 kHz	33 V to 329.9 V	0.14 % of value + 100 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
45 Hz to 1 kHz	330 V to 1 000 V	0.022 % of value + 20 mV	
1 kHz to 5 kHz	330 V to 1 000 V	0.019 % of value + 19 mV	
5 kHz to 10 kHz	330 V to 1 000 V	0.023 % of value + 18 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 20 Hz	29 μ A to 329.9 μ A	0.15 % of value + 0.096 μ A	
20 Hz to 45 Hz	29 μ A to 329.9 μ A	0.12 % of value + 0.093 μ A	
45 Hz to 1 kHz	29 μ A to 329.9 μ A	0.095 % of value + 0.096 μ A	
1 kHz to 5 kHz	29 μ A to 329.9 μ A	0.23 % of value + 0.41 μ A	
5 kHz to 10 kHz	29 μ A to 329.9 μ A	0.23 % of value + 0.41 μ A	
10 kHz to 30 kHz	29 μ A to 329.9 μ A	1.2 % of value + 2.2 μ A	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 20 Hz	0.33 mA to 3.29 mA	0.15 % of value + 0.000 3 mA	
20 Hz to 45 Hz	0.33 mA to 3.29 mA	0.087 % of value + 0.000 53 mA	
45 Hz to 1 kHz	0.33 mA to 3.29 mA	0.073 % of value + 0.000 31 mA	
1 kHz to 5 kHz	0.33 mA to 3.29 mA	0.15 % of value + 0.000 65 mA	
5 kHz to 10 kHz	0.33 mA to 3.29 mA	0.38 % of value + 0.000 84 mA	
10 kHz to 30 kHz	0.33 mA to 3.29 mA	0.76 % of value + 0.003 7 mA	



Certificate of Accreditation: Supplement

Company Name

22 Street, Suite #102, City, ST 06010
 Contact Name Phone: 777-777-7777

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Electrical

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Equipment to Measure AC Voltage (at the listed frequencies) ^F			Fluke 5520A WI 7.2.1-48
10 Hz to 20 Hz	3.3 mA to 32.9 mA	0.14 % of value + 0.003 mA	
20 Hz to 45 Hz	3.3 mA to 32.9 mA	0.065 % of value + 0.003 4 mA	
45 Hz to 1 kHz	3.3 mA to 32.9 mA	0.026 % of value + 0.003 7 mA	
1 kHz to 5 kHz	3.3 mA to 32.9 mA	0.056 % of value + 0.004 3 mA	
5 kHz to 10 kHz	3.3 mA to 32.9 mA	0.14 % of value + 0.006 9 mA	
10 kHz to 30 kHz	3.3 mA to 32.9 mA	0.28 % of value + 0.017 mA	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 20 Hz	33 mA to 329.9 mA	0.14 % of value + 0.031 mA	
20 Hz to 45 Hz	33 mA to 329.9 mA	0.065 % of value + 0.036 mA	
45 Hz to 1 kHz	33 mA to 329.9 mA	0.026 % of value + 0.038 mA	
1 kHz to 5 kHz	33 mA to 329.9 mA	0.074 % of value + 0.056 mA	
5 kHz to 10 kHz	33 mA to 329.9 mA	0.15 % of value + 0.11 mA	
10 kHz to 30 kHz	33 mA to 329.9 mA	0.074 % of value + 0.001 2 A	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 45 Hz	0.33 A to 2.9 A	0.008 7 % of value + 0.001 1 A	
45 Hz to 1 kHz	0.33 A to 2.9 A	0.45 % of value + 0.001 1 A	
1 kHz to 5 kHz	0.33 A to 2.9 A	1.9 % of value + 0.004 A	
5 kHz to 10 kHz	0.33 A to 2.9 A	0.13 % of value + 0.000 38 A	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
45 Hz to 100 Hz	3 A to 10.9 A	0.035 % of value + 0.000 65 A	
100 kHz to 1 kHz	3 A to 10.9 A	0.46 % of value + 0.000 91 A	
1 kHz to 5 kHz	3 A to 10.9 A	1.9 % of value + 0.004 A	
Equipment to Measure AC Current (at the listed frequencies) ^F			
45 Hz to 100 Hz	11 A to 20.5 A	0.04 % of value + 0.002 7 A	
100 Hz to 1 kHz	11 A to 20.5 A	0.072 % of value + 0.002 5 A	
1 kHz to 5 kHz	11 A to 20.5 A	2.3 % of value + 0.001 7 A	
10 to 45 Hz	11 A to 20.5 A	0.09 % of value + 0.004 9 A	
45 Hz to 1 000 Hz	11 A to 20.5 A	0.11 % of value + 0.004 8 A	
1 kHz to 5 kHz	11 A to 20.5 A	2.3 % of value + 0.004 A	



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Equipment to Measure Capacitance ^F	0.19 nF to 0.399 9 nF	0.34 % of value + 0.008 1 nF	Fluke 5520A WI 7.2.1-48 WI 7.2.1-60
	0.4 nF to 1.099 9 nF	0.38 % of value + 0.008 nF	
	1.1 nF to 3.299 9 nF	0.4 % of value + 0.007 8 nF	
	3.3 nF to 10.999 9 nF	0.19 % of value + 0.009 7 nF	
	11 nF to 32.999 9 nF	0.2 % of value + 0.078 nF	
	33 nF to 109.999 nF	0.19 % of value + 0.091 nF	
	110 nF to 329.999 nF	0.15 % of value + 0.57 nF	
	0.33 μ F to 1.099 99 μ F	0.19 % of value + 0.000 91 μ F	
	1.1 μ F to 3.299 99 μ F	0.15 % of value + 0.005 7 μ F	
	3.3 μ F to 10.999 9 μ F	0.2 % of value + 0.008 9 μ F	
	11 μ F to 32.999 9 μ F	0.27 % of value + 0.053 μ F	
	33 μ F to 109.999 μ F	0.36 % of value + 0.083 μ F	
	110 μ F to 329.999 μ F	0.31 % of value + 0.51 μ F	
	0.33 mF to 1.099 99 mF	0.34 % of value + 0.98 μ F	
	1.1 mF to 3.299 9 mF	0.3 % of value + 5.2 μ F	
	3.3 mF to 10.999 9 mF	0.35 % of value + 8.8 μ F	
11 mF to 32.999 9 mF	0.58 % of value + 24 μ F		
33 mF to 110 mF	0.85 % of value + 78 μ F		
Equipment to Measure Thermocouple Type B ^F	600 °C to 800 °C	0.37 °C	
	800 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 550 °C	0.27 °C	
	1 550 °C to 1 820 °C	0.29 °C	
Equipment to Measure Thermocouple Type C ^F	Up to 150°C	0.27 °C	
	150 °C to 650 °C	0.24 °C	
	650 °C to 1 000 °C	0.27 °C	
	1 000 °C to 1 800 °C	0.41 °C	
	1 800 °C to 2 316 °C	0.66 °C	
Equipment to Measure Thermocouple Type E ^F	-250 °C to -100 °C	0.41 °C	
	-100 °C to -25 °C	0.18 °C	
	-25 °C to 350 °C	0.17 °C	
	350 °C to 650 °C	0.18 °C	
	650 °C to 1 000 °C	0.20 °C	



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Equipment to Measure Thermocouple Type J ^F	-210 °C to -100 °C	0.25 °C	Fluke 5520A WI 7.2.1-60
	-100 °C to -30 °C	0.18 °C	
	-30 °C to 150 °C	0.17 °C	
	150 °C to 760 °C	0.18 °C	
	760 °C to 1 200 °C	0.22 °C	
Equipment to Measure Thermocouple Type K ^F	-200 °C to -100 °C	0.29 °C	
	-100 °C to -25 °C	0.19 °C	
	-25 °C to 120 °C	0.18 °C	
	120 °C to 1 000 °C	0.24 °C	
Equipment to Measure Thermocouple Type L ^F	1 000 °C to 1 372 °C	0.33 °C	
	-200 °C to -100 °C	0.34 °C	
	-100 °C to 800 °C	0.24 °C	
Equipment to Measure Thermocouple Type L ^F	800 °C to 900 °C	0.18 °C	
	-200 °C to -100 °C	0.34 °C	
	-100 °C to -25 °C	0.21 °C	
Equipment to Measure Thermocouple Type N ^F	-25 °C to 120 °C	0.19 °C	
	120 °C to 410 °C	0.19 °C	
	410 °C to 130 °C	0.24 °C	
Equipment to Measure Thermocouple Type R ^F	Up to 250 °C	0.46 °C	
	250 °C to 400 °C	0.30 °C	
	400 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 767 °C	0.33 °C	
Equipment to Measure Thermocouple Type S ^F	Up to 250 °C	0.39 °C	
	250 °C to 1 000 °C	0.31 °C	
	1 000 °C to 1 400 °C	0.32 °C	
Equipment to Measure Thermocouple Type S ^F	1 400 °C to 1 767 °C	0.38 °C	
	-250 °C to -150 °C	0.51 °C	
	-150 °C to 0 °C	0.22 °C	
Equipment to Measure Thermocouple Type T ^F	Up to 120 °C	0.18 °C	
	120 °C to 400 °C	0.16 °C	
	-200 °C to 0 °C	0.56 °C	
Equipment to Measure Thermocouple Type U ^F	Up to 600 °C	0.25 °C	



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Equipment to Measure RTD Type Pt 385,100 Ω ^F	-200 °C to -80 °C	0.05 °C	Fluke 5520A WI 7.2.1-60
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.07 °C	
	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.10 °C	
	400 °C to 630 °C	0.12 °C	
	630 °C to 800 °C	0.23 °C	
Equipment to Measure RTD Type Pt 3926,100 Ω ^F	-200 °C to -80 °C	0.05 °C	Fluke 5520A WI 7.2.1-60
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.07 °C	
	100 °C to 300 °C	0.09 °C	
	300 °C to 400 °C	0.10 °C	
	400 °C to 630 °C	0.12 °C	
Equipment to Measure RTD Type Pt 3916,100 Ω ^F	-200 °C to -190 °C	0.25 °C	Fluke 5520A WI 7.2.1-60
	-190 °C to -80 °C	0.04 °C	
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.06 °C	
	100 °C to 260 °C	0.07 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.09 °C	
	400 °C to 600 °C	0.10 °C	
Equipment to Measure RTD Type Pt 385,200 Ω ^F	600 °C to 630 °C	0.23 °C	Fluke 5520A WI 7.2.1-60
	-80 °C to 0 °C	0.04 °C	
	Up to 100 °C	0.04 °C	
	100 °C to 260 °C	0.05 °C	
	260 °C to 300 °C	0.12 °C	
	300 °C to 400 °C	0.13 °C	
	400 °C to 600 °C	0.14 °C	
600 °C to 630 °C	0.16 °C		



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Equipment to Measure RTD Type Pt 385,500 Ω ^F	-200 °C to -80 °C	0.04 °C	Fluke 5520A WI 7.2.1-60
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.05 °C	
	100 °C to 260 °C	0.06 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.08 °C	
	400 °C to 600 °C	0.09 °C	
	600 °C to 630 °C	0.11 °C	
Equipment to Measure RTD Type Pt 385,1 000 Ω ^F	-200 °C to -80 °C	0.03 °C	
	-80 °C to 0 °C	0.03 °C	
	Up 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 600 °C	0.07 °C	
	600 °C to 630 °C	0.23 °C	
Equipment to Measure RTD Type Ni120,1 209 Ω ^F	-80 °C to 0 °C	0.08 °C	
	Up to 100 °C	0.08 °C	
	100 °C to 260 °C	0.14 °C	
Equipment to Measure RTD Type Cu 427, 10 Ω ^F	-100 °C to 260 °C	0.30 °C	
Equipment to Simulate Thermocouple Type B ^F	600 °C to 800 °C	0.37 °C	
	800 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 550 °C	0.27 °C	
	1 550 °C to 1 820 °C	0.29 °C	
Equipment to Simulate Thermocouple Type C ^F	Up to 150 °C	0.27 °C	
	150 °C to 650 °C	0.24 °C	
	650 °C to 1 000 °C	0.27 °C	
	1 000 °C to 1 800 °C	0.41 °C	
	1 800 °C to 2 316 °C	0.66 °C	



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Equipment to Simulate Thermocouple Type E ^F	-250 °C to -100 °C	0.41 °C	Fluke 5520A WI 7.2.1-60
	-100 °C to -25 °C	0.18 °C	
	-25 °C to 350 °C	0.17 °C	
	350 °C to 650 °C	0.18 °C	
	650 °C to 1 000 °C	0.20 °C	
Equipment to Simulate Thermocouple Type J ^F	-210 °C to -100 °C	0.25 °C	
	-100 °C to -30 °C	0.18 °C	
	-30 °C to 150 °C	0.17 °C	
	150 °C to 760 °C	0.18 °C	
	760 °C to 1 200 °C	0.22 °C	
Equipment to Simulate Thermocouple Type K ^F	200 °C to -100 °C	0.29 °C	
	-100 °C to -25 °C	0.19 °C	
	-25 °C to 120 °C	0.18 °C	
	120 °C to 1 000 °C	0.24 °C	
	1 000 °C to 1 372 °C	0.33 °C	
Equipment to Simulate Thermocouple Type L ^F	-200 °C to -100 °C	0.34 °C	
	-100 °C to 800 °C	0.24 °C	
	800 °C to 900 °C	0.18 °C	
Equipment to Simulate Thermocouple Type N ^F	-200 °C to -100 °C	0.34 °C	
	-100 °C to -25 °C	0.21 °C	
	-25 °C to 120 °C	0.19 °C	
	120 °C to 410 °C	0.19 °C	
	410 °C to 130 °C	0.24 °C	
Equipment to Simulate Thermocouple Type R ^F	Up to 250 °C	0.46 °C	
	250 °C to 400 °C	0.30 °C	
	400 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 767 °C	0.33 °C	
Equipment to Simulate Thermocouple Type S ^F	Up to 250 °C	0.39 °C	
	250 °C to 1 000 °C	0.31 °C	
	1 000 °C to 1 400 °C	0.32 °C	
	1 400 °C to 1 767 °C	0.38 °C	
Equipment to Simulate Thermocouple Type T ^F	-250 °C to -150 °C	0.51 °C	
	-150 °C to 0 °C	0.22 °C	
	Up to 120 °C	0.18 °C	
	120 °C to 400 °C	0.16 °C	



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Equipment to simulate Thermocouple Type U ^F	-200 °C to 0 °C	0.56 °C	Fluke 5520A WI 7.2.1-60
	Up to 600 °C	0.25 °C	
Equipment to Simulate RTD Type Pt 385,100 Ω^F	-200 °C to -80 °C	0.05 °C	Fluke 8508A WI 7.2.1-60
	-80 °C to 0 °C	0.05 °C	
	Up 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	
Equipment to Simulate RTD Type Pt 3926,100 Ω^F	-200 °C to -80 °C	0.05 °C	
	-80 °C to 0 °C	0.05 °C	
	Up 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	
Equipment to Simulate RTD Type Pt 3916,100 Ω^F	-200 °C to -190 °C	0.25 °C	
	-190 °C to -80 °C	0.04 °C	
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.06 °C	
	100 °C to 260 °C	0.07 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.09 °C	
	400 °C to 600 °C	0.1 °C	
	600 °C to 630 °C	0.23 °C	
Equipment to Simulate RTD Type Pt 385,200 Ω^F	-80 °C to 0 °C	0.04 °C	
	Up to 100 °C	0.04 °C	
	100 °C to 260 °C	0.05 °C	
	260 °C to 300 °C	0.12 °C	
	300 °C to 400 °C	0.13 °C	
	400 °C to 600 °C	0.14 °C	
	600 °C to 630 °C	0.16 °C	



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Equipment to Simulate RTD Type Pt 385,500 Ω ^F	-200 °C to -80 °C	0.04 °C	Fluke 8508A WI 7.2.1-60 WI 7.2.1-45
	-80 °C to 0 °C	0.05 °C	
	Up to 100 °C	0.05 °C	
	100 °C to 260 °C	0.06 °C	
	260 °C to 300 °C	0.08 °C	
	300 °C to 400 °C	0.08 °C	
	400 °C to 600 °C	0.09 °C	
	600 °C to 630 °C	0.11 °Cs	
Equipment to Simulate RTD Type Pt 385,1 000 Ω ^F	-200 °C to -80 °C	0.03 °C	
	-80 °C to 0 °C	0.03 °C	
	Up 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 600 °C	0.07 °C	
	600 °C to 630 °C	0.23 °C	
Equipment to Simulate RTD Type Ni120,1 209 Ω ^F	-80 °C to 0 °C	0.08 °C	
	Up to 100 °C	0.08 °C	
	100 °C to 260 °C	0.14 °C	
Equipment to Simulate RTD Type Cu 427,10 Ω ^F	-100 °C to 260 °C	0.3 °C	
Equipment to Output DC Voltage ^F	20 mV to 200 mV	0.000 27 % of value + 0.1 uV	
	200 mV to 2 V	0.000 27 % of value + 0.004 uV	
	2 V to 20 V	0.000 27 % of value + 0.04 uV	
	20 V to 200 V	0.000 4 % of value + 0.4 uV	
	200 V to 1 000 V	0.000 4 % of value + 5 uV	
Equipment to Output DC Current ^F	1 μ A to 200 μ A	0.001 2 % of value + 0.000 4 μ A	
	200 μ A to 2 mA	0.001 2 % of value + 0.004 μ A	
	2 mA to 20 mA	0.001 3 % of value + 0.04 μ A	
	20 mA to 200 mA	0.003 6 % of value + 0.8 μ A	
	0.2 A to 2 A	0.017 % of value + 0.16 μ A	
	2 A to 20 A	0.038 % of value + 4 μ A	



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Equipment to Output AC Voltage (at the listed frequencies) ^F			Fluke 8508A WI 7.2.1-45
1 Hz to 10 Hz	1 mV to 200 mV	0.016 % of value + 14 μ V	
10 Hz to 40 Hz	1 mV to 200 mV	0.013 % of value + 4 μ V	
40 Hz to 100 Hz	1 mV to 200 mV	0.011 % of value + 4 μ V	
100 Hz to 2 kHz	1 mV to 200 mV	0.01 % of value + 2 μ V	
2 kHz to 10 kHz	1 mV to 200 mV	0.01 % of value + 4 μ V	
10 kHz to 30 kHz	1 mV to 200 mV	0.03 % of value + 8 μ V	
30 kHz to 100 kHz	1 mV to 200 mV	0.071 % of value + 20 μ V	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
1 Hz to 10 Hz	200 mV to 2 V	0.014 % of value + 1.2 μ V	
10 Hz to 40 Hz	200 mV to 2 V	0.011 % of value + 0.2 μ V	
40 Hz to 100 Hz	200 mV to 2 V	0.008 7 % of value + 0.2 μ V	
100 Hz to 2 kHz	200 mV to 2 V	0.006 6 % of value + 0.2 μ V	
2 kHz to 10 kHz	200 mV to 2 V	0.008 6 % of value + 0.2 μ V	
10 kHz to 30 kHz	200 mV to 2 V	0.021 % of value + 0.4 μ V	
30 kHz to 100 kHz	200 mV to 2 V	0.051 % of value + 2 μ V	
100 kHz to 300 kHz	200 mV to 2 V	0.3 % of value + 20 μ V	
300 MHz to 1 MHz	200 mV to 2 V	1 % of value + 200 μ V	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
1 Hz to 10 Hz	2 V to 20 V	0.014 % of value + 1.2 μ V	
10 Hz to 40 Hz	2 V to 20 V	0.01 % of value + 0.22 μ V	
40 Hz to 100 Hz	2 V to 20 V	0.008 5 % of value + 0.22 μ V	
100 Hz to 2 kHz	2 V to 20 V	0.006 5 % of value + 0.22 μ V	
2 kHz to 10 kHz	2 V to 20 V	0.008 5 % of value + 0.22 μ V	
10 kHz to 30 kHz	2 V to 20 V	0.02 % of value + 0.41 μ V	
30 kHz to 100 kHz	2 V to 20 V	0.051 % of value + 2 μ V	
100 kHz to 300 kHz	2 V to 20 V	0.3 % of value + 20 μ V	
300 MHz to 1 MHz	2 V to 20 V	1 % of value + 200 μ V	



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Equipment to Output AC Voltage (at the listed frequencies) ^F			Fluke 8508A WI 7.2.1-45
1 Hz to 10 Hz	20 V to 200 V	0.014 % of value + 120 μ V	
10 Hz to 40 Hz	20 V to 200 V	0.01 % of value + 20 μ V	
40 Hz to 100 Hz	20 V to 200 V	0.008 5 % of value + 20 μ V	
100 Hz to 2 kHz	20 V to 200 V	0.006 5 % of value + 20 μ V	
2 kHz to 10 kHz	20 V to 200 V	0.008 5 % of value + 20 μ V	
10 kHz to 30 kHz	20 V to 200 V	0.02 % of value + 40 μ V	
30 kHz to 100 kHz	20 V to 200 V	0.05 % of value + 200 μ V	
100 kHz to 300 kHz	20 V to 200 V	0.3 % of value + 2 000 μ V	
300 MHz to 1 MHz	20 V to 200 V	1 % of value + 20 000 μ V	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
1 Hz to 10 Hz	200 V to 2 000 V	0.014 % of value + 1 200 μ V	
10 Hz to 40 Hz	200 V to 2 000 V	0.011 % of value + 400 μ V	
40 kHz to 10 kHz	200 V to 2 000 V	0.009 5 % of value + 400 μ V	
10 kHz to 30kHz	200 V to 2 000 V	0.02 % of value + 800 μ V	
30 kHz to 100 kHz	200 V to 2 000 V	0.051 % of value + 4 000 μ V	
Equipment to Output AC Current (at the listed frequencies) ^F			
1 Hz to 10 Hz	1 μ A to 200 μ A	0.029 % of value + 0.02 μ A	
10 Hz to 10 kHz	1 μ A to 200 μ A	0.028 % of value + 0.02 μ A	
10 kHz to 30 kHz	1 μ A to 200 μ A	0.065 % of value + 0.02 μ A	
30 kHz to 100 kHz	1 μ A to 200 μ A	0.4 % of value + 0.02 μ A	
Equipment to Output AC Current (at the listed frequencies) ^F			
1 Hz to 10 Hz	200 μ A to 2 mA	0.029 % of value + 0.2 μ A	
10 Hz to 10 kHz	200 μ A to 2 mA	0.028 % of value + 0.2 μ A	
10 kHz to 30 kHz	200 μ A to 2 mA	0.065 % of value + 0.2 μ A	
30 kHz to 100 kHz	200 μ A to 2 mA	0.4 % of value + 0.2 μ A	
Equipment to Output AC Current (at the listed frequencies) ^F			
1 Hz to 10 Hz	2 mA to 20 mA	0.029 % of value + 2 μ A	
10 Hz to 10 kHz	2 mA to 20 mA	0.028 % of value + 2 μ A	
10 kHz to 30 kHz	2 mA to 20 mA	0.065 % of value + 2 μ A	
30 kHz to 100 kHz	2 mA to 20 mA	0.4 % of value + 2 μ A	



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Equipment to Output AC Current (at the listed frequencies) ^F			Fluke 8508A WI 7.2.1-45
1 Hz to 10 Hz	2 mA to 20 mA	0.029 % of value + 20 μ A	
10 Hz to 10 kHz	2 mA to 20 mA	0.028 % of value + 50 μ A	
10 kHz to 30 kHz	2 mA to 20 mA	0.06 % of value + 20 μ A	
Equipment to Output AC Current (at the listed frequencies) ^F			
10 Hz to 2 kHz	20 mA to 2 A	0.06 % of value + 2 μ A	
2 Hz to 10 kHz	20 mA to 2 A	0.074 % of value + 2 μ A	
10 kHz to 30 kHz	20 mA to 2 A	0.3 % of value + 2 μ A	
Equipment to Output AC Current (at the listed frequencies) ^F			
10 Hz to 2 kHz	2 A to 20 A	0.08 % of value + 20 μ A	
2 kHz to 10 kHz	2 A to 20 A	0.25 % of value + 20 μ A	
Equipment to Output Resistance ^F			Fluke 5500A/Coil & Fluke 5520A WI 7.2.1-57
20.5 A to 150 A	0.1 Ω to 2 Ω	0.001 6 % of value + 0.004 $\mu\Omega$	
	2 Ω to 20 Ω	0.000 9 % of value + 0.014 $\mu\Omega$	
	20 Ω to 200 Ω	0.000 75 % of value + 0.05 $\mu\Omega$	
	200 Ω to 2 k Ω	0.000 76 % of value + 0.000 5 Ω	
	2 k Ω to 20 k Ω	0.000 75 % of value + 0.005 Ω	
	20 k Ω to 200 k Ω	0.000 75 % of value + 0.05 Ω	
	200 k Ω to 2 M Ω	0.000 88 % of value + 0.000 5 k Ω	
	2 M Ω to 20 M Ω	0.001 5 % of value + 0.1 k Ω	
	20 m Ω to 200 M Ω	0.006 % of value + 10 k Ω	
200 M Ω to 2 G Ω	0.054 % of value + 1 M Ω		
DC Clamp Meters ^F			Fluke 5500A/Coil & Fluke 5520A WI 7.2.1-57
20.5 A to 150 A	150 A to 1 025 A	0.6 % of value + 0.17 A	
AC Clamp Meters 45 Hz to 65 Hz ^F	20.5 A to 150 A	0.6 % of value + 0.88 A	Fluke 5500A/Coil & Fluke 5520A LCOMP OFF WI 7.2.1-57
	150 A to 1 025 A	0.68 % of value + 0.3 A	
AC Clamp Meters 65 Hz to 440 Hz ^{FO}	20.5 A to 150 A	0.67 % of value + 1.2 A	
	150 A to 1 025 A	1.2 % of value + 0.3 A	
AC Clamp Meters 65 Hz to 440 Hz ^{FO}			1.2 % of value + 1.2 A



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Equipment to Measure Thermocouple Type T ^o	-250 °C to -150 °C	0.50 °C	Greenlee IPM-400, Altek 830, Omega CL-23A, Fluke 724, WI 7.2.1-46
	-150 °C to 0 °C	0.22 °C	
	Up to 120 °C	0.18 °C	
	120 °C to 400 °C	0.17 °C	
Equipment to Measure Thermocouple Type J ^o	-210 °C to -100 °C	0.26 °C	
	-100 °C to -30 °C	0.19 °C	
	-30 °C to 150 °C	0.18 °C	
	150 °C to 760 °C	0.19 °C	
Equipment to Measure Thermocouple Type K ^o	760 °C to 1 200 °C	0.23 °C	
	-200 °C to -100 °C	0.31 °C	Greenlee IPM-400, Altek 830, Omega CL-23A, Fluke 724, WI 7.2.1-46
	-100 °C to -25 °C	0.21 °C	
	-25 °C to 120 °C	0.20 °C	
120 °C to 1 000 °C	0.26 °C		
Equipment to Measure RTD Type PT 385 100 Ω ^{FO}	1 000 °C to 1 372 °C	0.34 °C	Greenlee IPM-400, Altek 830, Fluke 724, Fluke 787, WI 7.2.1-46
Equipment to Measure RTD Type PT 385 1 000 Ω ^{FO}	-100 °C to 850 °C	0.4 °C	
Temperature Indication and Control Equipment responding to Voltage ^{FO}	-200 °C to 630 °C	0.4 °C	Greenlee IPM-400, Altek 830, Fluke 724, Fluke 787, WI 7.2.1-46
Temperature Indication and Control Equipment responding to Current ^{FO}	Up to 10 V	0.11 % of value + 0.005 8 V	
Temperature Indication and Control Equipment responding to Current ^{FO}	4 mA to 20 mA	0.18 % of value + 0.005 8 mA	Greenlee IPM-400, Altek 830, Fluke 724, Fluke 787, WI 7.2.1-46



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Calipers ^F	4 in to 24 in	4.4 $\mu\text{in/in}$ + 270 μin	Gage Blocks WI 7.2.1-08 WI 7.2.1-03
Indicators ^F	0.000 05 in to 1 in	2.1 $\mu\text{in/in}$ + 28 μin	
Micrometers ^F	0.000 05 in to 24 in	6.7 $\mu\text{in/in}$ + 1.5 μin	
Thread Plug Gage ^F			IAC Masterscanner WI 7.2.1-15 WI 7.2.1-16
Effective Pitch Diameter	0.039 in to 2.36 in	(80 + 5L) μin	
Simple Pitch Diameter ^F	0.039 in to 2.36 in	(80 + 5L) μin	
Major Diameter ^F	0.039 in to 2.36 in	(80 + 5L) μin	
Minor Diameter ^F	0.039 in to 2.36 in	(100 + 5L) μin	
Thread Pitch ^F	0.039 in to 2.36 in	(40 + 5L) μin	
Accumulated Pitch Deviation ^F	0.039 in to 2.36 in	(40 + 5L) μin	
Flank Angles ^F	Pitch \leq 0.0394 in (1 mm)	(0°6'0'')/pitch	
	Pitch $>$ 0.0394 in (1 mm)	0°6'0'	
Taper ^F	0.039 in to 2.36 in	22 μin	
Thread Rings ^F			
Simple Pitch Diameter	0.118 in to 2.36 in	(80 + 5L) μin	
Major Diameter ^F	0.118 in to 2.36 in	(80 + 5L) μin	
Minor Diameter ^F	0.118 in to 2.36 in	(100 + 5L) μin	
Thread Pitch ^F	0.118 in to 2.36 in	(40 + 5L) μin	
Accumulated Pitch Deviation ^F	0.118 in to 2.36 in	(40 + 5L) μin	
Flank Angles ^F	Pitch \leq 0.039 4 in (1 mm)	(0°6'0'')/pitch	
	Pitch $>$ 0.039 4 in (1 mm)	0°6'0'	
Taper ^F	0.118 in to 2.36 in	22 μin	
Taper Pipe Thread Plugs ^F			
Effective Pitch Diameter	0.039 in to 2.36 in	(80 + 5L) μin	
Simple Pitch Diameter	0.039 in to 2.36 in	(80 + 5L) μin	
Major Diameter	0.039 in to 2.36 in	(80 + 5L) μin	
Minor Diameter ^F	0.039 in to 2.36 in	(100 + 5L) μin	
Thread Pitch ^F	0.039 in to 2.36 in	(40 + 5L) μin	
Accumulated Pitch Deviation ^F	0.039 in to 2.36 in	(40 + 5L) μin	
Flank Angles ^F	Pitch \leq 0.039 4 in (1 mm)	(0°6'0'')/pitch	
	Pitch $>$ 0.039 4 in (1 mm)	0°6'0'	
Taper ^F	0.039 in to 2.36 in	22 μin	



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Taper Pipe Thread Rings ^F			IAC Masterscanner WI 7.2.1-15 WI 7.2.1-16
Effective Pitch Diameter	0.118 in to 2.36 in	(80 + 5L) μ in	
Simple Pitch Diameter ^F	0.118 in to 2.36 in	(80 + 5L) μ in	
Major Diameter ^F	0.118 in to 2.36 in	(80 + 5L) μ in	
Minor Diameter ^F	0.118 in to 2.36 in	(100 + 5L) μ in	
Thread Pitch ^F	0.118 in to 2.36 in	(40 + 5L) μ in	
Accumulated Pitch Deviation ^F	0.118 in to 2.36 in	(40 + 5L) μ in	
Flank Angles ^F	Pitch \leq 0.039 4 in (1 mm)	(0°6'0'')/pitch	
	Pitch > 0.039 4 in (1 mm)	0°6'0'	
Taper ^F	0.118 in to 2.36 in	22 μ in	
Thread Set Plug Gages ^F			
Effective Pitch Diameter	0.118 in to 2.36 in	(80 + 5L) μ in	
Simple Pitch Diameter ^F	0.118 in to 2.36 in	(80 + 5L) μ in	
Major Diameter ^F	0.118 in to 2.36 in	(80 + 5L) μ in	
Minor Diameter ^F	0.118 in to 2.36 in	(100 + 5L) μ in	
Thread Pitch ^F	0.118 in to 2.36 in	(40 + 5L) μ in	
Accumulated Pitch Deviation ^F	0.118 in to 2.36 in	(40 + 5L) μ in	
Flank Angle ^F s	Pitch \leq 0.039 4 in (1 mm)	(0°6'0'')/pitch	
	Pitch > 0.039 4 in (1 mm)	0°6'0'	
Taper ^F	0.118 in to 2.36 in	22 μ in	
Plug Gages (OD) ^F			
Taper	0.039 in to 2.36 in	5 μ in	
Diameter ^F	0.039 in to 2.36 in	(80 + 2L) μ in	
Ring Gages (ID) ^F			
Taper	0.118 in to 2.36 in	5 μ in	
Diameter ^F	0.118 in to 2.36 in	(40 + 5L) μ in	
Luer Tapered Plugs ^F			
Small Diameter	Up to 60 mm	(80 + 2L) μ in	
Large Diameter ^F	Up to 60 mm	(80 + 2L) μ in	
Taper ^F	1:64 mm/mm Through 1:0 mm/mm	0.000 13 mm	



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Enviren Calibrations

202 State Street, Binghamton, NY 13905
 Contact Name: David Carter Phone: 607-723-0999

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Luer Tapered Rings ^F	Up to 60 mm	(80 + 2L) μ m	IAC Masterscanner WI 7.2.1-15 WI 7.2.1-16
Small Diameter			
Large Diameter ^F	Up to 60 mm	(80 + 2L) μ m	
Taper ^F	1:64 mm/mm Through 1:0 mm/mm	0.000 13 mm	

Thermodynamic

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Equipment to Measure Humidity ^{FO} Fixed points	11.3 % RH	1.4 % RH	Vaisala HMK-15 with:LiCl NaCl, K2SO4 WI 7.2.1-69
	75.5 % RH	1.6 % RH	
	97.6 % RH	2.1 % RH	
Equipment to Measure Humidity ^{FO}	10 % RH to 90 % RH	1.8 % RH	Vaisala HMI41 with HMP-46 humidity Probe WI 7.2.1-69
	90 % RH to 95 % RH	2.9 % RH	

Mechanical

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Equipment to Measure Acceleration ^F	10 Hz to 29 Hz	3.9 % of reading	Agate 3050 WI 7.2.1-65
	30 Hz to 99 Hz	4.1 % of reading	
	100 Hz to 4 999 Hz	3.8 % of reading	
	5 000 Hz to 10 000 Hz	3.8 % of reading	

- 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.



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Contact Name: David Carter Phone: 607-723-0999

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

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.

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