



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Kane USA, Inc. dba UEi Test Instruments

7601 E 88th PL, Ste. 888, Indianapolis, IN 46256

(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):

Calibration of Chemical Electrical, Mechanical, and Thermodynamic Equipment

(As detailed in the supplement)

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

For PJLA:

Tracy Szerszen
President

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

Initial Accreditation Date:

November 13, 2014

Issue Date:

July 30, 2023

Expiration Date:

October 31, 2025

Accreditation No.:

122716

Certificate No.:

L23-622

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

Kane USA, Inc. dba UEi Test Instruments

7601 E 88th PL, Ste. 888, Indianapolis, IN 46256
 Contact Name: Amanda Henderson Phone: 317-897-6260

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	Up to 330 mV	0.029 mV	Fluke 5502A OEM Manuals
	330 mV to 3.3 V	0.22 mV	
	3.3 V to 33 V	2.2 mV	
	30 V to 330 V	0.024 V	
	100 V to 1 020 V	0.073 V	
Equipment to Measure DC Current- Source ^F	Up to 330 μ A	0.057 μ A	OEM Manual, Fluke-5502A Multifunction Calibrator
	0.33 mA to 3.3 mA	0.000 55 mA	
	3.3 mA to 33 mA	0.0041 mA	
	33 mA to 330 mA	0.041 0 mA	
	Up to 1.1 A	0.000 53 A	
	1.1 A to 2.9 A	0.0013 A	
	Up to 11 A	0.008 2A	
	11 A to 20.5 A	0.024A	
Equipment to Measure Resistance ^F	Up to 11 Ohms	0.014 Ohms	OEM Manual, Fluke-5502A Multifunction Calibrator
	11 Ohms to 33 Ohms	0.024 Ohms	
	33 Ohms to 110 Ohms	0.030 Ohms	
	110 Ohms to 330 Ohms	0.034 Ohms	
	330 Ohms to 1 100 Ohms	0.14 Ohms	
	1.1 kOhms to 3.3 kOhms	0.60 Ohms	
	3.3 kOhms to 11 kOhms	1.3 Ohms	
	11 kOhms to 33 kOhms	0.004 8 kOhms	
	33 kOhms to 110 kOhms	0.015 kOhms	
	110 kOhms to 330 kOhms	0.060 kOhms	
	0.33 MOhms to 1.1 MOhms	0.20 kOhms	
	1.1 MOhms to 3.3 MOhms	0.78 kOhms	
	3.3 MOhms to 11 Mohms	0.0080 MOhms	
	11 MOhms to 33 MOhms	0.044 MOhms	
	33 MOhms to 110 MOhms	0.64 MOhms	
	110 MOhms to 330 MOhms	2.1 MOhms	
330 MOhms to 1 100 MOhms	20 MOhms		



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Equipment to Output AC Current (at the listed frequencies) ^F			OEM Manual, Fluke- 5502A Multifunction Calibrator
10 Hz to 45 Hz	1 mV to 33 mV	0.080 3 mV	
45 Hz to 10 kHz	1 mV to 33 mV	0.061 mV	
10 kHz to 20 kHz	1 mV to 33 mV	0.080 mV	
20 kHz to 50 kHz	1 mV to 33 mV	0.099 mV	
50 kHz to 100 kHz	1 mV to 33 mV	0.17 mV	
100 kHz to 500 kHz	1 mV to 33 mV	0.45 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 45 Hz	33 mV to 330 mV	0.21 mV	
45 Hz to 10 kHz	33 mV to 330 mV	0.14 mV	
10 kHz to 20 kHz	33 mV to 330 mV	0.14 mV	
20 kHz to 50 kHz	33 mV to 330 mV	0.29 mV	
50 kHz to 100 kHz	33 mV to 330 mV	0.43 mV	
100 kHz to 500 kHz	33 mV to 330 mV	1.1 mV	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
10 Hz to 45 Hz	0.33 V to 3.3 V	0.002 0 V	
45 Hz to 10 kHz	0.33 V to 3.3 V	0.001 2 V	
10 kHz to 20 kHz	0.33 V to 3.3 V	0.001 2 V	
20 kHz to 50 kHz	0.33 V to 3.3 V	0.002 7 V	
50 kHz to 100 kHz	0.33 V to 3.3 V	0.038 2 V	
100 kHz to 500 kHz	0.33 V to 3.3 V	0.009 0 V	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			
(10 to 45) Hz	3.3 V to 33 V	0.020 0 V	
45 Hz to 10 kHz	3.3 V to 33 V	0.012 1 V	
10 kHz to 20 kHz	3.3 V to 33 V	0.012 1 V	
20 kHz to 50 kHz	3.3 V to 33 V	0.027 V	
50 kHz to 100 kHz	3.3 V to 33 V	0.039 V	



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Equipment to Measure AC Voltage (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator
45 Hz to 1 kHz	33 V to 330 V	0.19 V	
1 kHz to 10 kHz	33 V to 330 V	0.32 V	
10 kHz to 20 kHz	33 V to 330 V	0.35 V	
20 kHz to 50 kHz	33 V to 330 V	0.47 V	
50 kHz to 100 kHz	33 V to 330 V	1.0 V	
Equipment to Measure AC Voltage (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator
45 Hz to 1 kHz	330 V to 102 0 V	0.61 V	
1 kHz to 5 kHz	330 V to 102 0 V	0.97 V	
5 kHz to 10 kHz	330 V to 102 0 V	1.1 V	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
(10 to 20) Hz	10 mV to 330 mV	1.2 mV	
20 Hz to 45 Hz	10 mV to 330 mV	0.81 mV	
45 Hz to 1 kHz	10 mV to 330 mV	0.81 mV	
1 kHz to 5 kHz	10 mV to 330 mV	1.3 mV	
5 kHz to 10 kHz	10 mV to 330 mV	2.0 mV	
10 kHz to 30 kHz	10 mV to 330 mV	20 mV	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
(10 to 20) Hz	0.33 V to 3.3 V	0.008 mV	
20 Hz to 45 Hz	0.33 V to 3.3 V	0.004 mV	
45 Hz to 1 kHz	0.33 V to 3.3 V	0.004 mV	
1 kHz to 5 kHz	0.33 V to 3.3 V	0.009 mV	
5 kHz to 10 kHz	0.33 V to 3.3 V	0.017 mV	
10 kHz to 30 kHz	0.33 V to 3.3 V	0.19 mV	
Equipment to Output AC Voltage (at the listed frequencies) ^F			
(10 to 20) Hz	3.3 V to 5 V	0.012 V	
20 Hz to 45 Hz	3.3 V to 5 V	0.006 3 V	
45 Hz to 1 kHz	3.3 V to 5 V	0.005 7 V	
1 kHz to 5 kHz	3.3 V to 5 V	0.013 V	
5 kHz to 10 kHz	3.3 V to 5 V	0.024 7 V	



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Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator
10 Hz to 20 Hz	29 μ A to 329.99 μ A	0.86 μ A	
20 Hz to 45 Hz	29 μ A to 329.99 μ A	0.67 μ A	
45 Hz to 1 kHz	29 μ A to 329.99 μ A	0.58 μ A	
1 kHz to 5 kHz	29 μ A to 329.99 μ A	1.3 μ A	
5 kHz to 10 kHz	29 μ A to 329.99 μ A	3.2 μ A	
10 kHz to 30 kHz	29 μ A to 329.99 μ A	6.4 μ A	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 20) Hz	0.33 mA to 3.3 mA	0.007 8 mA	
20 Hz to 45 Hz	0.33 mA to 3.3 mA	0.004 9 mA	
45 Hz to 1 kHz	0.33 mA to 3.3 mA	0.004 0 mA	
1 kHz to 5 kHz	0.33 mA to 3.3 mA	0.007 9 mA	
5 kHz to 10 kHz	0.33 mA to 3.3 mA	0.019 mA	
10 kHz to 30 kHz	0.33 mA to 3.3 mA	0.039 mA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 20) Hz	3.3 mA to 33 mA	0.071 mA	
20 Hz to 45 Hz	3.3 mA to 33 mA	0.037 mA	
45 Hz to 1 kHz	3.3 mA to 33 mA	0.018 mA	
1 kHz to 5 kHz	3.3 mA to 33 mA	0.033 mA	
5 kHz to 10 kHz	3.3 mA to 33 mA	0.080 mA	
10 kHz to 30 kHz	3.3 mA to 33 mA	0.16 mA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 45) Hz	0.33 A to 1.1 A	0.0024 A	
45 Hz to 1 kHz	0.33 A to 1.1 A	0.000 75 A	
1 kHz to 5 kHz	0.33 A to 1.1 A	0.008 8 A	
5 kHz to 10 kHz	0.33 A to 1.1 A	0.038 A	



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Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator
(10 to 45) Hz	1.1 A to 3.0 A	0.0064 A	
45 Hz to 1 kHz	1.1 A to 3.0 A	0.0022 A	
1 kHz to 5 kHz	1.1 A to 3.0 A	0.022 A	
5 kHz to 10 kHz	1.1 A to 3.0 A	0.092 A	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(45 to 100) Hz	3.0 A to 11 A	0.009 9 A	
100 Hz to 1 kHz	3.0 A to 11 A	0.015 A	
1 kHz to 5 kHz	3.0 A to 11 A	0.38 A	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(45 to 100) Hz	11 A to 20.5 A	0.034 A	
100 Hz to 1 kHz	11 A to 20.5 A	0.040 A	
1 kHz to 5 kHz	11 A to 20.5 A	0.70 A	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 100) Hz	29 µA to 330 µA	1.2 µA	
100 Hz to 1 kHz	29 µA to 330 µA	2.9 µA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 100) Hz	0.33 mA to 3.3 mA	0.009 9 mA	
100 Hz to 1 kHz	0.33 mA to 3.3 mA	0.022 mA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 100) Hz	3.3 mA to 33 mA	0.035 mA	
100 Hz to 1 kHz	3.3 mA to 33 mA	0.088 mA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 100) Hz	33 mA to 330 mA	0.35 mA	
100 Hz to 1 kHz	33 mA to 330 mA	0.88 mA	
Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			
(10 to 100) Hz	0.33 A to 3.3 A	0.004 8 A	
100 Hz to 440 Hz	0.33 A to 3.3 A	0.013 A	



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Equipment to Measure AC Current (LCOMP OFF) – SOURCE (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator
(10 to 100) Hz	3.0 A to 20.5 A	0.031 A	
100 Hz to 1 kHz	3.0 A to 20.5 A	0.24 A	
Equipment to Measure AC Current (USING 50 TURN COIL) - SOURCE (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator 50 Turn Coil
300 A	20 A to 1 000 A	0.60 A	
600 A	20 A to 1 000 A	1.1 A	
1 000 A	20 A to 1 000 A	1.8 A	
Equipment to Measure AC Current (USING 50 TURN COIL) - SOURCE (at the listed frequencies) ^F			
300 A	50 Hz to 440 Hz	0.60 A	
600 A	50 Hz to 440 Hz	1.1 A	
1000 A	50 Hz to 440 Hz	1.8 A	
Equipment to Measure DC Current (USING 50 TURN COIL) - SOURCE (at the listed frequencies) ^F			OEM Manual, Fluke-5502A Multifunction Calibrator 50 Turn Coil
300 A	20 A to 1 000 A	0.058 A	
600 A	20 A to 1 000 A	0.058 A	
1 000 A	20 A to 1 000 A	0.06 A	
Equipment to Measure Capacitance Source ^F	(0.22 to 0.4) nF	0.014 nF	OEM Manual, Fluke-5502A Multifunction Calibrator
	(0.4 to 1.1) nF	0.018 nF	
	(1.1 to 3.3) nF	0.031 nF	
	(3.3 to 11) nF	0.043 nF	
	(11 to 33) nF	0.21 nF	
	(33 to 110) nF	0.43 nF	
	(110 to 330) nF	1.3 nF	
	(0.33 to 1.1) μF	0.004 3 μF	
	(1.1 to 3.3) μF	0.013 μF	
	(3.3 to 11) μF	0.043 μF	
	(11 to 33) μF	0.19 μF	
	(33 to 110) μF	0.69 μF	
	(110 to 330) μF	2.1 μF	
(0.33 to 1.1) mF	0.006 4 mF		



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Equipment to Measure Capacitance Source ^F	1.1 mF to 3.30 mF	0.021 mF	OEM Manual, Fluke-5502A Multifunction Calibrator
	3.3 mF to 11 mF	0.017 mF	
	11 mF to 33 mF	0.32 mF	
	33 mF to 110 mF	1.5 mF	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B ^F	600 °C to 800 °C	0.51 °C	OEM Manual, Fluke-5502A Multifunction Calibrator
	800 °C to 1 000 °C	0.39 °C	
	1 000 °C to 1 550 °C	0.35 °C	
	1 550 °C to 1 820 °C	0.38 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type C ^F	Up to 150 °C	0.35 °C	
	150 °C to 650 °C	0.30 °C	
	650 °C to 1 000 °C	0.36 °C	
	1 000 °C to 1 800 °C	0.58 °C	
	1 800 °C to 2 316 °C	0.97 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E ^F	-250 °C to -100 °C	0.58 °C	
	-100 °C to -25 °C	0.18 °C	
	-25 °C to 350 °C	0.16 °C	
	350 °C to 650 °C	0.18 °C	
	650 °C to 1 000 °C	0.24 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J ^F	-210 °C to -100 °C	0.31 °C	
	-100 °C to -30 °C	0.18 °C	
	-30 °C to 150 °C	0.16 °C	
	150 °C to 760 °C	0.20 °C	
	760 °C to 1 200 °C	0.27 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K ^F	-200 °C to -100 °C	0.38 °C	
	-100 °C to -25 °C	0.21 °C	
	-25 °C to 120 °C	0.18 °C	
	120 °C to 1 000 °C	0.30 °C	
	1 000 °C to 1 372 °C	0.46 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L ^F	-200 °C to -100 °C	0.43 °C	
	-100 °C to 800 °C	0.30 °C	
	800 °C to 900 °C	0.20 °C	



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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N ^F	-200 °C to -100 °C	0.46 °C	OEM Manual, Fluke-5502A Multifunction Calibrator
	-100 °C to -25 °C	0.25 °C	
	-25 °C to 120 °C	0.22 °C	
	120 °C to 410 °C	0.21 °C	
	410 °C to 1 300 °C	0.31 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R ^F	Up to 250 °C	0.66 °C	
	250 °C to 400 °C	0.40 °C	
	400 °C to 1 000 °C	0.38 °C	
	1 000 °C to 1 767 °C	0.46 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S ^F	Up to 250 °C	0.54 °C	
	250 °C to 1 000 °C	0.42 °C	
	1 000 °C to 1 400 °C	0.43 °C	
	1 400 °C to 1 767 °C	0.53 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T ^F	-250 °C to -150 °C	0.73 °C	
	-150 °C to 0 °C	0.28 °C	
	Up to 120 °C	0.18 °C	
	120 °C to 400 °C	0.16 °C	
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U ^F	-200 °C to 0 °C	0.65 °C	
	Up to 600 °C	0.31 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt385, 100 Ohms^F	-200 °C to -80 °C	0.058 °C	
	-80 °C to 0 °C	0.058 °C	
	Up to 100 °C	0.081 °C	
	100 °C to 300 °C	0.10 °C	
	300 °C to 400 °C	0.12 °C	
	400 °C to 630 °C	0.14 °C	
	630 °C to 800 °C	0.27 °C	



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Temperature Calibration, Indication and Control Equipment used with RTD Type Pt3926, 100 Ohms^F	-200 °C to -80 °C	0.058 °C	OEM Manual, Fluke-5502A Multifunction Calibrator
	-80 °C to 0 °C	0.058 °C	
	Up to 100 °C	0.081 °C	
	100 °C to 300 °C	0.10 °C	
	300 °C to 400 °C	0.12 °C	
	400 °C to 630 °C	0.14 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt3916, 100 Ohms^F	-200 °C to -190 °C	0.29 °C	
	-190 °C to -80 °C	0.047 °C	
	-80 °C to 0 °C	0.058 °C	
	Up to 100 °C	0.070 °C	
	100 °C to 260 °C	0.081 °C	
	260 °C to 300 °C	0.093 °C	
	300 °C to 400 °C	0.10 °C	
	400 °C to 600 °C	0.12 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt385, 200 Ohms^F	-200 °C to -80 °C	0.047 °C	
	-80 °C to 0 °C	0.047 °C	
	Up to 100 °C	0.047 °C	
	100 °C to 260 °C	0.058 °C	
	260 °C to 300 °C	0.14 °C	
	300 °C to 400 °C	0.15 °C	
	400 °C to 600 °C	0.16 °C	
	600 °C to 630 °C	0.18 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt385, 500 Ohms^F	-200 °C to -80 °C	0.047 °C	
	-80 °C to 0 °C	0.058 °C	
	Up to 100 °C	0.058 °C	
	100 °C to 260 °C	0.070 °C	
	260 °C to 300 °C	0.093 °C	
	300 °C to 400 °C	0.093 °C	
	400 °C to 600 °C	0.10 °C	
	600 °C to 630 °C	0.127 °C	



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Temperature Calibration, Indication and Control Equipment used with RTD Type Pt385, 1000 Ohms^F	-200 °C to -80 °C	0.035 °C	OEM Manual, Fluke-5502A Multifunction Calibrator	
	-80 °C to 0 °C	0.035 °C		
	Up to 100 °C	0.047 °C		
	100 °C to 260 °C	0.058 °C		
	260 °C to 300 °C	0.070 °C		
	300 °C to 400 °C	0.081 °C		
	400 °C to 600 °C	0.081 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Type PtNi 385, 120 Ohms^F	-80 °C to 0 °C	0.093 °C		
	Up to 100 °C	0.093 °C		
	100 °C to 260 °C	0.16 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Type Cu 427, 10 Ohms^F	-100 °C to 260 °C	0.35 °C		
TEMPERATURE FUNCTION (SIMULATE & MEASURE) SOURCE ^F			OEM Manual, Fluke-5502A Multifunction Calibrator	
10 µV / °C	Up to 330 mV	4.6 µV		
1 mV / °C	Up to 330 mV	0.030 mV		
Equipment to Output DC Power at 33 mV to 1020 V^F	5.00 W	0.008 6 W	OEM Manual, Fluke-5502A Multifunction Calibrator	
Equipment to Output DC Power at 0.5 A to 20 A^F	30.00 W	0.014 W		
	2 000.0 W	2.4 W		
	20 000 W	24 W		
Equipment to Output AC Power at 33 mV to 1020 V^F	30 kHz to 30.0 W	1.2 W		
Equipment to Output AC Power at 0.5 A to 20 A^F	60 Hz to 120.0 W	0.11 W		
Equipment to Output AC Power at PF = 1^F	50 Hz to 240.0 W	0.23 W		
	55 Hz to 200 00.0 W	36 W		



Certificate of Accreditation: Supplement

Kane USA, Inc. dba UEi Test Instruments

7601 E 88th PL, Ste. 888, Indianapolis, IN 46256
 Contact Name: Amanda Henderson Phone: 317-897-6260

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 Output AC Power at 330 mV to 1020 V^F	30 kHz to 22.98 W	6.7 W	OEM Manual, Fluke-5502A Multifunction Calibrator
Equipment to Output AC Power at 300 mA to 20 A^F	60 Hz - 91.92 W	0.25 W	
Equipment to Output AC Power at PF = 0.766^F	50 Hz to 183.84 W	0.50 W	
	55 Hz to 1 5320 W	48 W	
Equipment to Measure Frequency ^F	0.01 Hz to 120 Hz	0.012 Hz	
	120 Hz to 1 200 Hz	0.091 Hz	
	1.2 kHz to 12 kHz	0.35 Hz	
	12 kHz to 120 kHz	3.5 Hz	
	120 kHz to 1 200 kHz	35 Hz	
	1.2 MHz to 2 MHz	58 Hz	

Thermodynamic

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
Temperature Generate (Infrared) ^F	-15 °C to 500 °C	0.75 °C	OEM Manual, Fluke-4180 & Fluke-4181
Temperature Measure ^F	-200 °C to 650 °C	0.03 °C	OEM Manual, Fluke-5609 & Fluke-1529
Temperature Generate ^F	-45 °C to 140 °C	0.071 °C	OEM Manual, Fluke-9170, Fluke-5609 & Fluke-1529
	50 °C to 660 °C	0.13 °C	OEM Manual, Fluke-9173, Fluke-5609 & Fluke-1529

Mechanical

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
Pressure - Generate ^F	0.001 psi to 15 psi	0.000 61 psi	OEM Manual, DHI-PPC4
	15 psi to 100 psi	0.003 psi	



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

Chemical

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
Mixed Gas - Carbon Monoxide ^F	5 ppm to 100 000 ppm	1.15 % of reading	EPA Protocol (Nitrogen as a balance) Certified Calibration gasses WI60, WI68
Mixed Gas - Carbon Dioxide ^F	100 ppm to 200 000 ppm		
Mixed Gas - Nitric Oxide ^F	5 ppm to 5 000 ppm		
Mixed Gas - Nitrogen Dioxide ^F	5 ppm to 3 000 ppm		
Mixed Gas - Sulphur Dioxide ^F	5 ppm to 10 000 ppm		
Mixed Gas - Oxygen ^F	500 ppm to 180 000 ppm		
Mixed Gas - Hydrogen ^F	100 ppm to 5 000 ppm		
Mixed Gas - Propane HC ^F	500 ppm to 10 000 ppm		

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.



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

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.

