



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Advanced Industrial Electronics
11903 Plantside Dr.
Louisville, KY 40299***

(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/IEC/JAF Communiqué dated January 2009):

***Calibration of Electronic and Torque Devices in the Laboratory
(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:

July 10, 2007

Issue Date:

July 30, 2009

Expiration Date:

July 29, 2011

Accreditation No.:

59500

Certificate No.:

L09-72

Page No.:

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Certificate of Accreditation: Supplement

Advanced Industrial Electronics
 11903 Plantside Dr.
 Louisville, KY 40299

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	0 mV to 329.999 mV	22 μ V/V + 1.1 μ V	Fluke 5520
	0 V to 3.299 999 V	12.1 μ V/V + 2.2 μ V	
	0 V to 32.999 99 V	13.2 μ V/V + 22 μ V	
	30 V to 329.999 9 V	19.8 μ V/V + 165 μ V	
	100 V to 1 000.000 V	19.8 μ V/V + 1 650 μ V	
DC Current	0 μ A to 329.999 μ A	165 μ A/A + 0.022 μ A	
	0 mA to 3.299 99 mA	110 μ A/A + 0.055 μ A	
	0 mA to 32.999 9 mA	110 μ A/A + 0.275 μ A	
	0 mA to 329.999 mA	11.0 μ A/A + 2.75 μ A	
	0 A to 1.099 99 A	220 μ A/A + 44 μ A	
	1.1 A to 2.999 99 A	418 μ A/A + 44 μ A	
	0 A to 10.999 9 A	550 μ A/A + 550 μ A	
	11 A to 20.5 A	1 100 μ A/A + 825 μ A	
Resistance	0 Ω to 10.999 9 Ω	44 $\mu\Omega/\Omega$ + 0.001 1 Ω	
	11 Ω to 32.999 9 Ω	33 $\mu\Omega/\Omega$ + 0.001 65 Ω	
	33 Ω to 109.999 9 Ω	30.8 $\mu\Omega/\Omega$ + 0.001 54 Ω	
	110 Ω to 329.999 9 Ω	30.8 $\mu\Omega/\Omega$ + 0.002 2 Ω	
	330 Ω to 1.099 999 k Ω	30.8 $\mu\Omega/\Omega$ + 0.002 2 Ω	
	1.1 k Ω to 3.299 999 k Ω	30.8 $\mu\Omega/\Omega$ + 0.022 Ω	
	3.3 k Ω to 10.999 99 k Ω	30.8 $\mu\Omega/\Omega$ + 0.022 Ω	
	11 k Ω to 32.999 99 k Ω	30.8 $\mu\Omega/\Omega$ + 0.22 Ω	
	33 k Ω to 109.999 9 k Ω	30.8 $\mu\Omega/\Omega$ + 0.22 Ω	
	110 k Ω to 329.999 9 k Ω	35.2 $\mu\Omega/\Omega$ + 2.2 Ω	
	330 k Ω to 1.099 999 M Ω	35.2 $\mu\Omega/\Omega$ + 2.2 Ω	
	1.1 M Ω to 3.299 999 M Ω	66 $\mu\Omega/\Omega$ + 33 Ω	
	3.3 M Ω to 10.999 99 M Ω	143 $\mu\Omega/\Omega$ + 55 Ω	
	11 M Ω to 32.999 99 M Ω	275 $\mu\Omega/\Omega$ + 2 750 Ω	
	33 M Ω to 109.999 9 M Ω	550 $\mu\Omega/\Omega$ + 3 330 Ω	
	110 M Ω to 329.999 9 M Ω	3 300 $\mu\Omega/\Omega$ + 110 000 Ω	
330 M Ω to 1 100 M Ω	16 500 $\mu\Omega/\Omega$ + 550 000 Ω		



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AC Voltage – Sine Wave At the listed frequencies			Fluke 5520
10 Hz to 45 Hz	1.0 mV to 32.999 mV	880 μ V/V + 6.6 μ V	
45 Hz to 10 kHz	1.0 mV to 32.999 mV	165 μ V/V + 6.6 μ V	
10 kHz to 20 kHz	1.0 mV to 32.999 mV	220 μ V/V + 6.6 μ V	
20 kHz to 50 kHz	1.0 mV to 32.999 mV	1 110 μ V/V + 6.6 μ V	
50 kHz to 100 kHz	1.0 mV to 32.999 mV	3 850 μ V/V + 13.2 μ V	
100 kHz to 500 kHz	1.0 mV to 32.999 mV	8 800 μ V/V + 55 μ V	
AC Voltage – Sine Wave At the listed frequencies			
10 Hz to 45 Hz	33 mV to 329.999 mV	330 μ V/V + 8.8 μ V	
45 Hz to 10 kHz	33 mV to 329.999 mV	159.5 μ V/V + 8.8 μ V	
10 kHz to 20 kHz	33 mV to 329.999 mV	176 μ V/V + 8.8 μ V	
20 kHz to 50 kHz	33 mV to 329.999 mV	385 μ V/V + 8.8 μ V	
50 kHz to 100 kHz	33 mV to 329.999 mV	880 μ V/V + 35.2 μ V	
100 kHz to 500 kHz	33 mV to 329.999 mV	2 200 μ V/V + 77 μ V	
AC Voltage – Sine Wave At the listed frequencies			
10 Hz to 45 Hz	0.33 V to 3.299 99 V	330 μ V/V + 55 μ V	
45 Hz to 10 kHz	0.33 V to 3.299 99 V	165 μ V/V + 66 μ V	
10 kHz to 20 kHz	0.33 V to 3.299 99 V	209 μ V/V + 66 μ V	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	330 μ V/V + 55 μ V	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	770 μ V/V + 137.5 μ V	
100 kHz to 500 kHz	0.33 V to 3.299 99 V	2 640 μ V/V + 660 μ V	
AC Voltage – Sine Wave At the listed frequencies			
10 Hz to 45 Hz	3.3 V to 32.999 9 V	330 μ V/V + 715 μ V	
45 Hz to 10 kHz	3.3 V to 32.999 9 V	165 μ V/V + 660 μ V	
10 kHz to 20 kHz	3.3 V to 32.999 9 V	264 μ V/V + 660 μ V	
20 kHz to 50 kHz	3.3 V to 32.999 9 V	385 μ V/V + 660 μ V	
50 kHz to 100 kHz	3.3 V to 32.999 9 V	990 μ V/V + 1 760 μ V	



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AC Voltage – Sine Wave At the listed frequencies			Fluke 5520
45 Hz to 1 kHz	33 V to 329.999 V	209 μ V/V + 2 200 μ V	
1 kHz to 10 kHz	33 V to 329.999 V	220 μ V/V + 6 600 μ V	
10 kHz to 20 kHz	33 V to 329.999 V	275 μ V/V + 6 600 μ V	
20 kHz to 50 kHz	33 V to 329.999 V	330 μ V/V + 6 600 μ V	
AC Voltage – Sine Wave At the listed frequencies			
45 Hz to 1 kHz	330 V to 1 020 V	330 μ V/V + 11 000 μ V	
1 kHz to 5 kHz	330 V to 1 020 V	275 μ V/V + 11 000 μ V	
5 kHz to 10 kHz	330 V to 1 020 V	330 μ V/V + 11 000 μ V	
AC Current– Sine Wave At the listed frequencies			
10 Hz to 20 Hz	29.00 μ A to 329.99 μ A	0.22 % + 0.11 μ A	
20 Hz to 45 Hz	29.00 μ A to 329.99 μ A	0.165 % + 0.11 μ A	
45 Hz to 1 kHz	29.00 μ A to 329.99 μ A	0.137 5 % + 0.11 μ A	
1 kHz to 5 kHz	29.00 μ A to 329.99 μ A	0.33 % + 0.165 μ A	
5 kHz to 10 kHz	29.00 μ A to 329.99 μ A	0.88 % + 0.22 μ A	
10 kHz to 30 kHz	29.00 μ A to 329.99 μ A	1.76 % + 0.44 μ A	
AC Current– Sine Wave At the listed frequencies			
10 Hz to 20 Hz	0.33 mA to 3.299 9 mA	0.22 % + 0.165 μ A	
20 Hz to 45 Hz	0.33 mA to 3.299 9 mA	0.137 5 % + 0.165 μ A	
45 Hz to 1 kHz	0.33 mA to 3.299 9 mA	0.11 % + 0.165 μ A	
1 kHz to 5 kHz	0.33 mA to 3.299 9 mA	0.22 % + 0.22 μ A	
5 kHz to 10 kHz	0.33 mA to 3.299 9 mA	0.55 % + 0.33 μ A	
10 kHz to 30 kHz	0.33 mA to 3.299 9 mA	1.1 % + 0.66 μ A	



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AC Current– Sine Wave At the listed frequencies			Fluke 5520
10 Hz to 20 Hz	3.3 mA to 32.999 mA	0.198 % + 2.2 μ A	
20 Hz to 45 Hz	3.3 mA to 32.999 mA	0.099 % + 2.2 μ A	
45 Hz to 1 kHz	3.3 mA to 32.999 mA	0.044 % + 2.2 μ A	
1 kHz to 5 kHz	3.3 mA to 32.999 mA	0.088 % + 2.2 μ A	
5 kHz to 10 kHz	3.3 mA to 32.999 mA	0.22 % + 3.3 μ A	
10 kHz to 30 kHz	3.3 mA to 32.999 mA	0.44 % + 4.4 μ A	
AC Current– Sine Wave At the listed frequencies			
10 Hz to 20 Hz	33 mA to 329.999 mA	0.198 % + 22 μ A	
20 Hz to 45 Hz	33 mA to 329.999 mA	0.099 % + 22 μ A	
45 Hz to 1 kHz	33 mA to 329.999 mA	0.044 % + 22 μ A	
1 kHz to 5 kHz	33 mA to 329.999 mA	0.11% + 55 μ A	
5 kHz to 10 kHz	33 mA to 329.999 mA	0.22 % + 110 μ A	
10 kHz to 30 kHz	33 mA to 329.999 mA	0.44 % + 220 μ A	
AC Current– Sine Wave At the listed frequencies			
10 Hz to 45 Hz	0.33 A to 1.099 99 A	0.198 % + 110 μ A	
45 Hz to 1 kHz	0.33 A to 1.099 99 A	0.055 % + 110 μ A	
1 kHz to 5 kHz	0.33 A to 1.099 99 A	0.66 % + 1 100 μ A	
5 kHz to 10 kHz	0.33 A to 1.099 99 A	2.75 % + 5 500 μ A	
AC Current– Sine Wave At the listed frequencies			
10 Hz to 45 Hz	1.1 A to 2.999 99 A	0.198 % + 110 μ A	
45 Hz to 1 kHz	1.1 A to 2.999 99 A	0.066 % + 110 μ A	
1 kHz to 5 kHz	1.1 A to 2.999 99 A	0.66 % + 2 220 μ A	
5 kHz to 10 kHz	1.1 A to 2.999 99 A	2.75 % + 5 500 μ A	
AC Current– Sine Wave At the listed frequencies			
45 Hz to 100 Hz	3 A to 10.999 9 A	0.066 % + 2 200 μ A	
100 Hz to 1 kHz	3 A to 10.999 9 A	0.11 % + 2 200 μ A	
1 kHz to 5 kHz	3 A to 10.999 9 A	3.3 % + 2 200 μ A	



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AC Current– Sine Wave At the listed frequencies			Fluke 5520
45 Hz to 100 Hz	11 A to 20.5 A	0.132 % + 5 500 μ A	
100 Hz to 1 kHz	11 A to 20.5 A	0.165 % + 5 500 μ A	
1 kHz to 5 kHz	11 A to 20.5 A	3.3 % + 5 500 μ A	
Capacitance	0.19 nF to 0.399 9 nF	0.55 % + 0.011 nF	
	0.4 nF to 1.099 9 nF	550 %+ 0.011 nF	
	1.1 nF to 3.299 9 nF	550 %+ 0.011 nF	
	3.3 nF to 10.999 9 nF	275 %+ 0.011 nF	
	11 nF to 32.999 9 nF	275 %+ 0.11 nF	
	33 nF to 109.999 nF	275 %+ 0.11 nF	
	110 nF to 329.999 nF	275 %+ 0.33 nF	
	0.33 μ F to 1.099 99 μ F	275 %+ 1.1 nF	
	1.1 μ F to 3.299 99 μ F	275 %+ 3.3 nF	
	3.3 μ F to 10.999 9 μ F	275 %+ 11 nF	
	11 μ F to 32.999 9 μ F	440 %+ 33 nF	
	33 μ F to 109.999 μ F	495 %+ 110 nF	
	110 μ F to 329.999 μ F	495 %+ 330 nF	
	0.33 mF to 1.099 99 mF	0.495 %+ 1.1 μ F	
	1.1 mF to 3.299 9 mF	0.495 %+ 3.3 μ F	
3.3 mF to 10.999 9 mF	0.495 %+ 11 μ F		
11 mF to 32.999 9 mF	0.75 % + 33 μ F		
33 mF to 110 mF	1.1% + 110 μ F		
Electrical Simulation of Thermocouples Type B	600 °C to 800 °C	2.9 °C	
	800 °C to 1 000 °C	2.3 °C	
	1 000 °C to 1 550 °C	2.0 °C	
	1 550 °C to 1 820 °C	2.2 °C	
Electrical Simulation of Thermocouples Type C	0 °C to 150 °C	2.0 °C	
	150 °C to 650 °C	1.8 °C	
	650 °C to 1 000 °C	2.1 °C	
	1 000 °C to 1 800 °C	3.3 °C	
	1 800 °C to 2 316 °C	5.6 °C	



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Electrical Simulation of Thermocouples Type E	-250 °C to -100 °C	3.3 °C	Fluke 5520
	-100 °C to -25 °C	1.1 °C	
	-25 °C to 350 °C	0.92 °C	
	350 °C to 650 °C	1.1 °C	
	650 °C to 1 000 °C	1.4 °C	
Electrical Simulation of Thermocouples Type J	-250 °C to -100 °C	1.8 °C	
	-100 °C to -30 °C	1.1 °C	
	-30 °C to 150 °C	0.92 °C	
	150 °C to 760 °C	1.2 °C	
	760 °C to 1 200 °C	1.6 °C	
Electrical Simulation of Thermocouples Type K	-200 °C to -100 °C	2.2 °C	
	-100 °C to -25 °C	1.2 °C	
	-25 °C to 120 °C	1.1 °C	
	120 °C to 1 000 °C	1.8 °C	
	1 000 °C to 1 372 °C	2.7 °C	
Electrical Simulation of Thermocouples Type L	-200 °C to -100 °C	2.5 °C	
	-100 °C to 800 °C	1.8 °C	
	800 °C to 900 °C	1.2 °C	
Electrical Simulation of Thermocouples Type N	-200 °C to -100 °C	2.7 °C	
	-100 °C to -25 °C	1.5 °C	
	-25 °C to 120 °C	1.3 °C	
	120 °C to 410 °C	1.2 °C	
	410 °C to 1 300 °C	1.8 °C	
Electrical Simulation of Thermocouples Type R	0 °C to 250 °C	3.8 °C	
	250 °C to 400 °C	2.4 °C	
	400 °C to 1 000 °C	2.2 °C	
	1 000 °C to 1 767 °C	2.7 °C	
Electrical Simulation of Thermocouples Type S	0 °C to 250 °C	3.1 °C	
	250 °C to 400 °C	2.4 °C	
	400 °C to 1 000 °C	2.5 °C	
	1 000 °C to 1 767 °C	3.1 °C	



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Electrical Simulation of Thermocouples Type T	-250 °C to -150 °C	4.2 °C	Fluke 5520
	-150 °C to 0 °C	1.6 °C	
	0 °C to 120 °C	1.1 °C	
	120 °C to 400 °C	0.92 °C	
Electrical Simulation of Thermocouples Type U	-200 °C to 0 °C	3.7 °C	
	0 °C to 600 °C	1.8 °C	
Electrical Simulation of RTD Pt 395 100 Ω	-200 °C to -80 °C	0.33 °C	
	-80 °C to 0 °C	0.33 °C	
	0 °C to 100 °C	0.46 °C	
	100 °C to 300 °C	0.59 °C	
	300 °C to 400 °C	0.66 °C	
	400 °C to 630 °C	0.79 °C	
	630 °C to 800 °C	1.6 °C	
Electrical Simulation of RTD Pt 3926 100 Ω	-200 °C to -80 °C	0.33 °C	
	-80 °C to 0 °C	0.33 °C	
	0 °C to 100 °C	0.46 °C	
	100 °C to 300 °C	0.59 °C	
	300 °C to 400 °C	0.66 °C	
	400 °C to 630 °C	0.79 °C	
Electrical Simulation of RTD Pt 3916 100 Ω	-200 °C to -190 °C	1.7 °C	
	-190 °C to -80 °C	0.26 °C	
	-80 °C to 0 °C	0.33 °C	
	0 °C to 100 °C	0.40 °C	
	100 °C to 260 °C	0.46 °C	
	260 °C to 300 °C	0.53 °C	
	300 °C to 400 °C	0.59 °C	
	400 °C to 600 °C	0.66 °C	
600 °C to 630 °C	1.6 °C		



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Electrical Simulation of RTD Pt 385 200 Ω	-200 $^{\circ}\text{C}$ to -80 $^{\circ}\text{C}$	0.26 $^{\circ}\text{C}$	Fluke 5520
	-80 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	0.26 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.26 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 260 $^{\circ}\text{C}$	0.33 $^{\circ}\text{C}$	
	260 $^{\circ}\text{C}$ to 300 $^{\circ}\text{C}$	0.79 $^{\circ}\text{C}$	
	300 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$	0.86 $^{\circ}\text{C}$	
	400 $^{\circ}\text{C}$ to 600 $^{\circ}\text{C}$	0.92 $^{\circ}\text{C}$	
	600 $^{\circ}\text{C}$ to 630 $^{\circ}\text{C}$	1.1 $^{\circ}\text{C}$	
Electrical Simulation of RTD Pt 385 500 Ω	-200 $^{\circ}\text{C}$ to -80 $^{\circ}\text{C}$	0.26 $^{\circ}\text{C}$	
	-80 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	0.33 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.33 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 260 $^{\circ}\text{C}$	0.40 $^{\circ}\text{C}$	
	260 $^{\circ}\text{C}$ to 300 $^{\circ}\text{C}$	0.53 $^{\circ}\text{C}$	
	300 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$	0.53 $^{\circ}\text{C}$	
	400 $^{\circ}\text{C}$ to 600 $^{\circ}\text{C}$	0.59 $^{\circ}\text{C}$	
	600 $^{\circ}\text{C}$ to 630 $^{\circ}\text{C}$	0.73 $^{\circ}\text{C}$	
Electrical Simulation of RTD Pt 385 1000 Ω	-200 $^{\circ}\text{C}$ to -80 $^{\circ}\text{C}$	0.20 $^{\circ}\text{C}$	
	-80 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	0.20 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.26 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 260 $^{\circ}\text{C}$	0.33 $^{\circ}\text{C}$	
	260 $^{\circ}\text{C}$ to 300 $^{\circ}\text{C}$	0.40 $^{\circ}\text{C}$	
	300 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$	0.46 $^{\circ}\text{C}$	
	400 $^{\circ}\text{C}$ to 600 $^{\circ}\text{C}$	0.46 $^{\circ}\text{C}$	
	600 $^{\circ}\text{C}$ to 630 $^{\circ}\text{C}$	1.6 $^{\circ}\text{C}$	
Electrical Simulation of RTD PtNi 385, 120 Ω	-80 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	0.53 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.53 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 260 $^{\circ}\text{C}$	0.92 $^{\circ}\text{C}$	
Electrical Simulation of RTD Cu 427, 10 Ω	-100 $^{\circ}\text{C}$ to 260 $^{\circ}\text{C}$	2.0 $^{\circ}\text{C}$	



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Torque Tools	.282 5 N·m to 2.825 N·m (2.5 lbf·in to 25 lbf·in)	1.02 % of reading	Model AWS-300025LC S/N 3429-1
Torque Tools	1.694 8 N·m to 16.948 N·m (15 lbf·in to 150 lbf·in)	1.02 % of reading	Model MTMDP-4L S/N 3429-2
Torque Tools	11.298 5 N·m to 112.985 N·m (100 lbf·in to 1 000 lbf·in)	1.02 % of reading	Model MTMDP-4L S/N 3429-3
Torque Tools	2.824 6 N·m to 28.246 N·m (25 lbf·in to 250 lbf·in)	1.02 % of reading	Model MTMDP-4L S/N 3429-4
Torque Tools	6.779 1 N·m to 67.791 N·m (60 lbf·in to 600 lbf·in)	1.02 % of reading	Model MTMDP-4L S/N 3429-5

1. Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of $K = 2$.
2. 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 information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.