

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Accuserve, Inc
6600 E. Harris Blvd Suite D
Charlotte, NC 28215***

(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):

***Calibration of Electrical, Temperature, Humidity, Dimensional, Pressure, Vacuum, Mass, Sound, Frequency, Time, Torque Measuring and Test Instruments
(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:

April 3, 2001

Issue Date:

July 13, 2009

Expiration Date:

July 12, 2011

Accreditation No.:

59060

Certificate No.:

L09-71

Page No.:

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Certificate of Accreditation: Supplement

Accuserve, Inc
6600 E. Harris Blvd Suite D
Charlotte, NC 28215

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 Measure	10 V	0.000 4 % of reading + 0.000 005 % of range	Hewlett Packard 3458A Opt 002
	100 V	0.000 6 % of reading + 0.000 03 % of range	
DC Voltage Source	0 mV to 329.999 9 mV	0.000 6 % of output + 4.3 μ V	Fluke 5500A
	0 V to 3.299 999 V	0.005 % of output + 18 μ V	
	0 V to 32.999 99 V	0.005 % of output + 200 μ V	
	30 V to 329.999 9 V	0.005 5 % of output + 2 mV	
	100 V to 1 020.000 V	0.005 5 % of output + 1.5 mV	
AC Voltage – Measure At the listed frequencies	10 mV		
1 Hz to 40 Hz	10 mV	0.03 % of reading + 0.03 % of range	Hewlett Packard 3458A Opt 002
40 Hz to 1 kHz	10 mV	0.02 % of reading + 0.011 % of range	
1 kHz to 20 kHz	10 mV	0.03 % of reading + 0.011 % of range	
20 kHz to 50 kHz	10 mV	0.1 % of reading + 0.011 % of range	
50 kHz to 100 kHz	10 mV	0.5 % of reading + 0.011 % of range	
100 kHz to 300 kHz	10 mV	4.0 % of reading + 0.02 % of range	
AC Voltage – Measure At the listed frequencies			
1 Hz to 40 Hz	100 mV to 10 V	0.007 % of reading + 0.004 % of range	
40 Hz to 1 kHz	100 mV to 10 V	0.007 % of reading + 0.002 % of range	
1 kHz to 20 kHz	100 mV to 10 V	0.014 % of reading + 0.002 % of range	
20 kHz to 50 kHz	100 mV to 10 V	0.03 % of reading + 0.002 % of range	
50 kHz to 100 kHz	100 mV to 10 V	0.08 % of reading + 0.002 % of range	
100 kHz to 300 kHz	100 mV to 10 V	0.3 % of reading + 0.01 % of range	
300 kHz to 1 MHz	100 mV to 10 V	1.0 % of reading + 0.01 % of range	
1 MHz to 2 MHz	100 mV to 10 V	1.5 % of reading + 0.01 % of range	

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AC Voltage – Measure At the listed frequencies			
1 Hz to 40 Hz	100 V	0.02 % of reading + 0.004 % of range	
40 Hz to 1 kHz	100 V	0.02 % of reading + 0.002 % of range	
1 kHz to 20 kHz	100 V	0.02 % of reading + 0.002 % of range	
20 kHz to 50 kHz	100 V	0.035 % of reading + 0.002 % of range	
50 kHz to 100 kHz	100 V	0.12 % of reading + 0.002 % of range	
100 kHz to 300 kHz	100 V	0.4 % of reading + 0.01 % of range	
300 kHz to 1 MHz	100 V	1.5 % of reading + 0.01 % of range	
AC Voltage – Measure At the listed frequencies			Hewlett Packard 3458A Opt 002 (Continued)
1 Hz to 40 Hz	1 000 V	0.04 % of reading + 0.004 % of range	
40 Hz to 1 kHz	1 000 V	0.04 % of reading + 0.002 % of range	
1 kHz to 20 kHz	1 000 V	0.06 % of reading + 0.002 % of range	
20 kHz to 50 kHz	1 000 V	0.12 % of reading + 0.002 % of range	
50 kHz to 100 kHz	1 000 V	0.3 % of reading + 0.002 % of range	
AC Voltage - Source At the listed frequencies			Fluke 5500A
10 Hz to 45 Hz	1 mV to 32.999 mV	0.35 % of output + 22.6 μ V	
45 Hz to 10 kHz	1 mV to 32.999 mV	0.15 % of output + 22.7 μ V	
10 kHz to 20 kHz	1 mV to 32.999 mV	0.2 % of output + 22.7 μ V	
20 kHz to 50 kHz	1 mV to 32.999 mV	0.25 % of output + 23.4 μ V	
50 kHz to 100 kHz	1 mV to 32.999 mV	0.35 % of output + 39.5 μ V	
100 kHz to 500 kHz	1 mV to 32.999 mV	1.0 % of output + 170 μ V	

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AC Voltage - Source At the listed frequencies			Fluke 5500A
10 Hz to 45 Hz	33 mV to 329.999 mV	0.25 % + 73 μ V	
45 Hz to 10 kHz	33 mV to 329.999 mV	0.05 % + 43 μ V	
10 kHz to 20 kHz	33 mV to 329.999 mV	0.1 % + 44 μ V	
20 kHz to 50 kHz	33 mV to 329.999 mV	0.16 % + 71 μ V	
50 kHz to 100 kHz	33 mV to 329.999 mV	0.24 % + 229 μ V	
100 kHz to 500 kHz	33 mV to 329.999 mV	0.7 % + 1.33 mV	
AC Voltage - Source At the listed frequencies			
10 Hz to 45 Hz	0.33 V to 3.299 99 V	0.15 % + 480 μ V	
45 Hz to 10 kHz	0.33 V to 3.299 99 V	0.03 % + 290 μ V	
10 kHz to 20 kHz	0.33 V to 3.299 99 V	0.08 % + 290 μ V	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	0.14 % + 610 μ V	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	0.24 % + 2.3 mV	
100 kHz to 500 kHz	0.33 V to 3.299 99 V	0.5 % + 13.3 mV	
AC Voltage - Source At the listed frequencies			
10 Hz to 45 Hz	3.3 V to 32.999 9 V	0.15 % of output + 7 mV	
45 Hz to 10 kHz	3.3 V to 32.999 9 V	0.04 % of output + 3.6 mV	
10 kHz to 20 kHz	3.3 V to 32.999 9 V	0.08 % of output + 5.6 mV	
20 kHz to 50 kHz	3.3 V to 32.999 9 V	0.19 % of output + 9.2 mV	
50 kHz to 100 kHz	3.3 V to 32.999 9 V	0.24 % of output + 21.5 mV	
AC Voltage - Source At the listed frequencies			
45 Hz to 1 kHz	33 V to 329.999 V	0.05 % of output + 39.6 mV	
1 kHz to 10 kHz	33 V to 329.999 V	0.08 % of output + 30 mV	
10 kHz to 20 kHz	33 V to 329.999 V	0.09 % of output + 30 mV	
AC Voltage - Source At the listed frequencies			
45 Hz to 1 kHz	330 V to 1 020 V	0.05 % of output + 130 mV	
1 kHz to 5 kHz	330 V to 1 020 V	0.20 % of output + 100 mV	
5 kHz to 10 kHz	330 V to 1 020 V	0.20 % of output + 500 mV	

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DC Current Measure	10 μ A	0.002 0 % of reading + 0.001 0 % of range	Hewlett Packard 3458A Opt 002
	100 μ A	0.002 0 % of reading + 0.000 8 % of range	
	1 mA	0.002 0 % of reading + 0.000 5 % of range	
	10 mA	0.002 0 % of reading + 0.000 5 % of range	
	100 mA	0.0035 % of reading + 0.000 5 % of range	
DC Current Source	0 mA to 3.299 99 mA	0.013 % of output + 0.05 μ A	Fluke 5500A
	0 mA to 32.999 9 mA	0.01 % of output + 0.25 μ A	
	0 mA to 329.999 mA	0.01 % of output + 3.3 μ A	
	0 A to 2.199 99 A	0.03 % of output + 44 μ A	
DC Current Source	0 A to 11 A	0.06 % of output + 770 μ A	Fluke 5500A/Coil
AC Current- Measure at the listed frequencies			Hewlett Packard 3458A Opt 002
10 Hz to 20 Hz	100 μ A	0.4 % of reading + 0.03 % of range	
20 Hz to 45 Hz	100 μ A	0.15 % of reading + 0.03 % of range	
45 Hz to 100 Hz	100 μ A	0.06 % of reading + 0.03 % of range	
AC Current- Measure at the listed frequencies			
10 Hz to 20 Hz	1 mA to 100 mA	0.4 % of reading + 0.02 % of range	
20 Hz to 45 Hz	1 mA to 100 mA	0.15 % of reading + 0.02 % of range	
45 Hz to 100 Hz	1 mA to 100 mA	0.06 % of reading + 0.02 % of range	
100 Hz to 5 kHz	1 mA to 100 mA	0.03 % of reading + 0.02 % of range	
5 kHz to 20 kHz	1 mA to 100 mA	0.06 % of reading + 0.02 % of range	
20 kHz to 50 kHz	1 mA to 100 mA	0.4 % of reading + 0.04 % of range	
50 kHz to 100 kHz	1 mA to 100 mA	0.55 % of reading + 0.15 % of range	

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AC Current- Measure at the listed frequencies			Hewlett Packard 3458A Opt 002
10 Hz to 20 Hz	1 A	0.4 % of reading + 0.02 % of range	
20 Hz to 45 Hz	1 A	0.16 % of reading + 0.02 % of range	
45 Hz to 100 Hz	1 A	0.08 % of reading + 0.02 % of range	
100 Hz to 5 kHz	1 A	0.1 % of reading + 0.02 % of range	
5 kHz to 20 kHz	1 A	0.3 % of reading + 0.02 % of range	
20 kHz to 50 kHz	1 A	1.0 % of reading + 0.04 % of range	
AC Current- Source at the listed frequencies			Fluke 5500A
10 Hz to 20 Hz	0.029 mA to 0.329 99 mA	0.25 % of reading + 0.23 μ A	
20 Hz to 45 Hz	0.029 mA to 0.329 99 mA	0.13 % of reading + 0.49 μ A	
45 Hz to 1 kHz	0.029 mA to 0.329 99 mA	0.13 % of reading + 0.58 μ A	
1 kHz to 5 kHz	0.029 mA to 0.329 99 mA	0.4 % of reading + 0.64 μ A	
5 kHz to 10 kHz	0.029 mA to 0.329 99 mA	1.25 % of reading + 1.35 μ A	
AC Current- Source at the listed frequencies			
10 Hz to 20 Hz	0.33 mA to 3.299 9 mA	0.2 % of reading + 0.76 μ A	
20 Hz to 45 Hz	0.33 mA to 3.299 9 mA	0.1 % of reading + 0.8 μ A	
45 Hz to 1 kHz	0.33 mA to 3.299 9 mA	0.1 % of reading + 0.72 μ A	
1 kHz to 5 kHz	0.33 mA to 3.299 9 mA	0.2 % of reading + 0.79 μ A	
5 kHz to 10 kHz	0.33 mA to 3.299 9 mA	0.6 % of reading + 0.79 μ A	
AC Current- Source at the listed frequencies			
10 Hz to 20 Hz	3.3 mA to 32.999 9 mA	0.2 % of reading + 3 μ A	
20 Hz to 45 Hz	3.3 mA to 32.999 9 mA	0.1 % of reading + 3 μ A	
45 Hz to 1 kHz	3.3 mA to 32.999 9 mA	0.09 % of reading + 3 μ A	
1 kHz to 5 kHz	3.3 mA to 32.999 9 mA	0.2 % of reading + 3 μ A	
5 kHz to 10 kHz	3.3 mA to 32.999 9 mA	0.6 % of reading + 3 μ A	

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AC Current- Source at the listed frequencies			Fluke 5500A
10 Hz to 20 Hz	33 mA to 329.999 mA	0.2 % of output + 30 μ A	
20 Hz to 45 Hz	33 mA to 329.999 mA	0.1 % of output + 30 μ A	
45 Hz to 1 kHz	33 mA to 329.999 mA	0.09 % of output + 30 μ A	
1 kHz to 5 kHz	33 mA to 329.999 mA	0.2 % of output + 30 μ A	
5 kHz to 10 kHz	33 mA to 329.999 mA	0.6 % of output + 30 μ A	
AC Current- Source at the listed frequencies			
45 Hz to 65 Hz	2.2 A to 11 A	0.06 % of reading + 2000 μ A	
65 Hz to 500 Hz	2.2 A to 11 A	0.10 % of reading + 2000 μ A	
500 Hz to 1 kHz	2.2 A to 11 A	0.33 % of reading + 2000 μ A	
AC Current- Source at the listed frequencies			Fluke 5500A/Coil
45 Hz to 65 Hz	10 A to 16.499 9 A	0.28 % of output + 0.003 A	
65 Hz to 440 Hz	10 A to 16.499 9 A	0.79 % of output + 0.003 A	
AC Current- Source at the listed frequencies			
45 Hz to 65 Hz	16.5 A to 149.999 A	0.28 % of output + 0.025 A	
65 Hz to 440 Hz	16.5 A to 149.999 A	0.79 % of output + 0.027 A	
AC Current- Source at the listed frequencies			
45 Hz to 65 Hz	150 A to 1 025 A	0.28 % of output + 0.09 A	
65 Hz to 440 Hz	150 A to 1 025 A	0.79 % of output + 0.1 A	

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Resistance Measure	Up to 10 Ω	0.001 5 % of reading + 0.000 5 % of range	Hewlett Packard 3458A Opt 002
	10 Ω to 100 Ω	0.001 2 % of reading + 0.000 5 % of range	
	100 Ω to 1 k Ω	0.001 0 % of reading + 0.000 05 % of range	
	1 k Ω to 10 k Ω	0.001 0 % of reading + 0.000 05 % of range	
	10 k Ω to 100 k Ω	0.001 0 % of reading + 0.000 05 % of range	
	100 k Ω to 1 M Ω	0.001 5 % of reading + 0.000 2 % of range	
	1 M Ω to 10 M Ω	0.005 0 % of reading + 0.001 0 % of range	
	10 M Ω to 100 M Ω	0.050 0 % of reading + 0.001 0 % of range	
	100 M Ω to 1 G Ω	0.5 % of reading + 0.001 0 % of range	
Resistance Source	0 Ω to 10.99 Ω	0.012 % of output + 0.008 Ω	Fluke 5500A
	11 Ω to 32.999 Ω	0.012 % of output + 0.015 Ω	
	33 Ω to 109.999 Ω	0.009 % of output + 0.015 Ω	
	110 Ω to 329.999 Ω	0.009 % of output + 0.015 Ω	
	330 Ω to 1.099 9 k Ω	0.009 % of output + 0.061 Ω	
	1.1 k Ω to 3.299 99 k Ω	0.009 % of output + 0.078 Ω	
	3.3 k Ω to 10.999 9 k Ω	0.009 % of output + 0.66 Ω	
	11 k Ω to 32.999 9 k Ω	0.009 % of output + 0.81 Ω	
	33 k Ω to 109.999 k Ω	0.011 % of output + 6.7 Ω	
	110 k Ω to 329.999 k Ω	0.012 % of output + 8.7 Ω	
	330 k Ω to 1.099 99 M Ω	0.015 % of output + 65 Ω	
	1.1 M Ω to 3.299 99 M Ω	0.015 % of output + 107 Ω	
	3.3 M Ω to 10.999 9 M Ω	0.06 % of output + 740 Ω	
	11 M Ω to 32.999 9 M Ω	0.1 % of output + 6 550 Ω	
	33 M Ω to 109.999 M Ω	0.5 % of output + 25.5 k Ω	
110 M Ω to 330 M Ω	0.5 % of output + 87.5 k Ω		

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Inductance Source General Radio 1482-L 100 μ H	@ 100 Hz	0.12 %	General Radio 1482-L
	@ 200 Hz	0.12 %	
	@ 400 Hz	0.12 %	
	@ 1 000 Hz	0.12 %	
	@ 10 kHz	0.13 %	
Capacitance Source	100 pF to 1.111 μ F at 1 kHz (100 pF/step)	0.05 % + 0.05 pF	General Radio 1423A
Electrical Simulation of Thermocouples-Source Type J	-210 $^{\circ}$ C to -100 $^{\circ}$ C	0.27 $^{\circ}$ C	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	0.23 $^{\circ}$ C	

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS	
Temperature Measure	0 $^{\circ}$ C to 50 $^{\circ}$ C	0.029 $^{\circ}$ C	Hart Scientific 1521 w/ 5610	
	50 $^{\circ}$ C to 75 $^{\circ}$ C	0.035 $^{\circ}$ C		
	75 $^{\circ}$ C to 100 $^{\circ}$ C	0.05 $^{\circ}$ C		
	RH Source	@ 33 % RH	2.3 %	Hart Scientific 1521 w/ 5618B
		@ 75 % RH	2.3 %	
		0 % RH to 15 % RH	1.2 % RH	
RH Measure	16 % RH to 90 % RH	1.6 % RH	Vaisala HMI41 w/ HMP46	

Time & Frequency

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Time and Frequency	10 MHz	0.000 012 MHz	Hewlett Packard 53181A

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Mass, Force, and Weighing

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Balances, Scales, and Force Measuring Equipment	1 mg to 500 mg	$(1.05 + 1.13 \times 10^{-3} \text{ wt}) \text{ mg}$	Class F Weights
	50 g to 2 kg	1.2 g	Class 1 Weights

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	REMARKS
Micrometers	1.0 in to 12 in	310 μin	Mitutoyo Caliper Checker (AID0144)
Calipers	1.0 in to 12 in	820 μin	
Calipers	24 in	840 μin	Starrett 234A (AID0056)

Mechanical

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Volume, Air Source	0 L to 3 L	0.58 % of reading	A-M systems 192800
Pressure	0 kPa to 6.894 757 kPa (0 psi to 1 psi)	0.012 kPa (0.001 8 psi)	Fluke 700P22
Pressure	0 kPa to 2 068.427 184 kPa (0 psi to 300 psi)	0.59 kPa (0.087 psi)	Druck DPI 610
Pressure	0 kPa to 6 894.757 28 kPa (0 psi to 1 000 psi)	4.0 kPa (0.58 psi)	Fluke 700P08
Pressure	0 kPa to 34 473.786 4 kPa (0 psi to 5 000 psi)	32 kPa (4.6 psi)	Fluke 700P30
Vacuum	0 mmHg to 761.999 991 mmHg (0 inHg to 30 inHg)	0.22 mmHg (0.008 7 inHg)	Druck DPI 610
Torque Tools	2.825 N·m to 28.25 N·m (25 lbf·in to 250 lbf·in)	1 lbf·in	Mountz BMX250I
Torque Tools	33.9 N·m to 339 N·m (25 lbf·ft to 250 lbf·ft)	1 lbf·ft	Mountz BMX250F

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Acoustic

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Sound Source	94.0 dB	0.26 dB	Briel & Kjaer 4231
	114.0 dB	0.26 dB	

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 information about the measurement method. This column is not to be used for commercial advertisement of laboratory services.
2. The term wt represents weight in pounds or grams (including SI multiple and submultiples units) appropriate to the uncertainty statement.