

International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

This is to signify that

ACCURATE SOLUTIONS – ATLANTA, INC.

6303 WOODLORE DRIVE, NORTHWEST
ACWORTH, GEORGIA 30101

Calibration Laboratory CL-105
(Revised June 12, 2009)

has demonstrated compliance with the ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited commencing September 27, 2007, for the calibration discipline(s) listed in the approved scope of accreditation. The laboratory meets the IAS program requirements in the field of calibration.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President

(see attached scope of accreditation for measurement area or type of test, range or quantity, best measurement capability, technique reference, standard equipment or unique conditions)

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International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Accurate Solutions – Atlanta, Inc. CL-105

(Revised January 9, 2008)

Accurate Solutions – Atlanta, Inc.
6303 Woodlore Drive, NW
Acworth, GA 30101

Galen Evans
President
(770) 428-9400

MEASUREMENT AREA	RANGE & RESOLUTION	BEST MEASUREMENT CAPABILITY ¹ (BMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Dimensional</i> Length Calipers	(0 to 12) inches (12 to 36) inches	(50 + 15L) μin (210 + 24L) μin	Gage Blocks, Rings Rod Standards
Micrometers	(0 to 3) inches (3 to 12) inches	35 μin 70 μin	Gage Blocks
Height Gages	(0 to 12) inches (12 to 36) inches	(50 + 15L) μin (210 + 24L) μin	Gage Blocks
Indicators	(0 to 1) inch	20 μin	Gage Blocks
Rules & Tapes	(0 to 39) inches (39 to 117) inches	0.0025 in 30 μin/in + (L/39) · (0.0025) in	Linear Standard, Gauge Blocks
Micrometer End Standards, Height Blocks, Test Block	(0 to 1) inch (1 to 3) inches	15 μin 30 μin	Electronic comparator Gage Blocks

September 27, 2007
Commencement Date



C. P. Ramani, P.E.
President

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Mass ²	(0.001 to 100) g (100 to 6000) g	200 µg 20 mg	Comparison to Class Weights
<i>Mechanical</i> Balances	20 mg to 6 kg	See Note	ASTM Class 1 Weights
Scales	(0.0005 to 4000) lb	See Note	ASTM Class F Weights
Force - Tension	(0 to 3000) lb	0.01% of reading	Class F weights Set the force method
Force – Tension & Compression	(0 to 50) lbf (0 to 250) lbf (0 to 2500) lbf (0 to 20,000) lbf (0 to 100,000) lbf	0.005 lbf 0.025 lbf 0.25 lbf 1.01 lbf 4.8 lbf	Calibrated Load Cell Follow the force method

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Tachometer, Rotational Speed Noncontact – Source	(0.6 to 720,000) RPM	2.5 ppm	Signal Generator, Photo Pulse Generator
Noncontact – Measure	(6 to 45,000) RPM (45,000 to 99,999) RPM	±0.5 RPM ±1.0 RPM	Laser Tachometer, Timer
Contact	(0.8 to 9999.9) RPM (10,000 to 25,000) RPM	±0.6% of reading ±0.006% of reading	
Timers and Time Intervals, Electrical or Mechanical Trigger Event	10 µs to 256 s	1.3 µs	MicroSet Temperature Compensated Timer Calibrated via GPS Signal
Timers/Stopwatches – Manual	15 s to 24 hours	0.27 s	Reference Stopwatch, NIST Time Service
Pressure	(-14.8 to 300) lbf/in ² (0 to 5,000) lbf/in ² ±2 in H ₂ O ±100 in H ₂ O	0.02 lbf/in ² 0.5 lbf/in ² 0.06% of reading 0.01 in H ₂ O	Druck DPI 610 ATE-100

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<i>Thermal</i>			
Thermometers, Temperature Indicators	-15 to 300°C	0.2°C	RTD, Dry Block Calibrator, Liquid Bath
	-150°C to 600°C	0.0073°C	SPRT
Thermocouple Indicators & Standards			Electrical Simulation of Temperature, using Digital Calibrator, DMM and/or Ice Bath or Dry Block Calibrator
Type B	(600 to 1820)°C	0.4°C	
Type C	(0 to 2316)°C	0.3°C	
Type E	(-250 to 1000)°C	0.2°C	
Type J	(-210 to 1200)°C	0.2°C	
Type K	(-200 to 1372)°C	0.2°C	
Type N	(-200 to 1300)°C	0.2°C	
Type R	(0 to 1767)°C	0.4°C	
Type S	(0 to 1767)°C	0.4°C	
Type T	(-250 to 400)°C	0.2°C	
Type U	(-200 to 600)°C	0.3°C	
RTD - Measuring Equipment and Probes	(-200 to 800)°C (-190 to 630)°C	0.08°C 0.05°C	Digital Calibrator Decade Resistors
RTD PT 385 100Ω, 1K Ω	0°	0.007°	Triple Point Cell and SPRT

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Chart Recorder or Data logger	(0 to 300)°C	0.2°C	RTD, Dry Block Calibrator, Electronic Signal Simulation
Relative Humidity	(10 to 90)%	1.25%	Digital RH Meter, Psychrometer
<i>Electromagnetics–DC/Low Frequency</i> DC Volts – Source	(0 to 330) mV (0 to 3.3) V (0 to 33) V (30 to 330) V (100 to 1000) V	20 µV/V + 1 µV 11 µV/V + 2 µV 12 µV/V + 15 µV 18 µV/V + 150 µV 18 µV/V + 1.5 mV	Fluke 5520A
DC Volts – Measure	(0 to 100) mV (0.1 to 1) V (1 to 10) V (10 to 100) V (100 to 1000) V	50 µV/V + 3.5 µV 40 µV/V + 7 µV 35 µV/V + 50 µV 45 µV/V + 600 µV 45 µV/V + 10 mV	HP 34401A

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DC Current – Source	(0 to 330) μ A (0.33 to 3.3) mA (3.3 to 33) mA (33 to 330) mA (0.33 to 1.1) A (1.1 to 3) A (3 to 11) A (11 to 20.5) A	150 μ A/A + 0.02 μ A 100 μ A/A + 0.05 μ A 100 μ A/A + 0.25 μ A 100 μ A/A + 2.5 μ A 200 μ A/A + 40 μ A 380 μ A/A + 40 μ A 500 μ A/A + 500 μ A 1000 μ A/A + 750 μ A	Fluke 5520A
DC Current – Measure	(0 to 10) mA (10 to 100) mA (0.1 to 1) A (1 to 3) A	500 μ A/A + 2 μ A 500 μ A/A + 5 μ A 1 mA/A + 100 μ A 1.2 mA/A + 600 μ A	HP 34401A

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Resistance – Source	(0 to 11) Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω (330 to 1100) Ω (1.1 to 3.3) kΩ (3.3 to 11) kΩ (11 to 33) kΩ (33 to 110) kΩ (110 to 330) kΩ (330 to 1100) kΩ (1.1 to 3.3) MΩ (3.3 to 11) MΩ (11 to 33) MΩ (33 to 110) MΩ (110 to 330) MΩ (330 to 1100) MΩ	40 μΩ/Ω + 0.001'Ω 30 μΩ/Ω + 0.0015 Ω 28 μΩ/Ω + 0.0014 Ω 28 μΩ/Ω + 0.002 Ω 28 μΩ/Ω + 0.002 Ω 28 μΩ/Ω + 0.02 Ω 28 μΩ/Ω + 0.02 Ω 28 μΩ/Ω + 0.2 Ω 28 μΩ/Ω + 0.2 Ω 32 μΩ/Ω + 2 Ω 32 μΩ/Ω + 2 Ω 60 μΩ/Ω + 30 Ω 130 μΩ/Ω + 50 Ω 250 μΩ/Ω + 2.5 kΩ 500 μΩ/Ω + 3 kΩ 3 mΩ/Ω + 100 kΩ 15 mΩ/Ω + 500 kΩ	Fluke 5520A

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Resistance – Measure	(0 to 100) Ω (0.1 to 1) kΩ (1 to 10) kΩ (10 to 100) kΩ (0.1 to 1) MΩ (1 to 10) MΩ (10 to 100) MΩ	0.1 mΩ/Ω + 4 mΩ 0.1 mΩ/Ω + 10 mΩ 0.1 mΩ/Ω + 100 mΩ 0.1 mΩ/Ω + 1 Ω 0.1 mΩ/Ω + 10 Ω 0.4 mΩ/Ω + 100 Ω 8.0 mΩ/Ω + 10 kΩ	HP 34401A

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AC Volts – Source	(1 to 33) mV		Fluke 5520A
	(10 to 45) Hz	800 μ V/V + 6 μ V	
	45 Hz to 10 kHz	150 μ V/V + 6 μ V	
	(10 to 20) kHz	200 μ V/V + 6 μ V	
	(20 to 50) kHz	1000 μ V/V + 6 μ V	
	(50 to 100) kHz	3.5 mV/V + 12 μ V	
	(100 to 500) kHz	8 mV/V + 50 μ V	
	(33 to 330) mV		
	(10 to 45) Hz	300 μ V/V + 8 μ V	
	45 Hz to 10 kHz	145 μ V/V + 8 μ V	
	(10 to 20) kHz	160 μ V/V + 8 μ V	
	(20 to 50) kHz	350 μ V/V + 8 μ V	
	(50 to 100) kHz	800 μ V/V + 32 μ V	
	(100 to 500) kHz	2 mV/V + 70 μ V	
(0.33 to 3.3) V			
(10 to 45) Hz	300 μ V/V + 50 μ V		
45 Hz to 10 kHz	150 μ V/V + 60 μ V		
(10 to 20) kHz	190 μ V/V + 60 μ V		

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AC Volts – Source cont'd.	(20 to 50) kHz (50 to 100) kHz (100 to 500) kHz (3.3 to 33) V (10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (33 to 330) V 45 Hz to 1kHz (1 to 10) kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (330 to 1020) V 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	300 μ V/V + 50 μ V 700 μ V/V + 125 μ V 2.4 mV/V + 600 μ V 300 μ V/V + 650 μ V 150 μ V/V + 600 μ V 240 μ V/V + 600 μ V 350 μ V/V + 600 μ V 900 μ V/V + 1600 μ V 190 μ V/V + 2 mV 200 μ V/V + 6 mV 250 μ V/V + 6 mV 300 μ V/V + 6 mV 2.0 mV/V + 50 mV 300 μ V/V + 10 mV 250 μ V/V + 10 mV 300 μ V/V + 10 mV	Fluke 5520A

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AC Voltage – Measure	(0 to 100) mV (3 to 5) Hz (5 to 10) Hz (0.01 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (1 to 750) V (3 to 5) Hz (5 to 10) Hz (0.01 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz	10 μ V/mV + 40 μ V 350 μ V/V + 40 μ V 60 μ V/V + 40 μ V 120 μ V/V + 50 μ V 600 μ V/V + 80 μ V 4 mV/V + 500 μ V 10 μ V/mV + 30 μ V 350 μ V/V + 30 μ V 60 μ V/V + 30 μ V 120 μ V/V + 50 μ V 600 μ V/V + 80 μ V 4 mV/V + 500 μ V	HP 34401A

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AC Current – Source	(29 to 330) μ A (10 to 20)n Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz (0.33 to 3.30) mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz (3.3 to 33) mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz	2 mA/A + 0.1 μ A 1.5 mA/A + 0.1 μ A 1.25 mA/A + 0.1 μ A 3 mA/A + 0.15 μ A 8 mA/A + 0.2 μ A 16 mA/A + 0.4 μ A 2.0 mA/A + 0.15 μ A 1.25 mA/A + 0.15 μ A 1.0 mA/A + 0.15 μ A 2.0 mA/A + 0.2 μ A 5.0 mA/A + 0.3 μ A 10 mA/A + 0.6 μ A 1.8 mA/A + 2 μ A 0.9 mA/A + 2 μ A 0.4 mA/A + 2 μ A	Fluke 5520A

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AC Current – Source cont'd.	(1 to 5) kHz	0.8 mA/A + 2 µA	Fluke 5520A
	(5 to 10) kHz	2.0 mA/A + 3 µA	
	(10 to 30) kHz	4.0 mA/A + 4 µA	
	(33 to 330) mA		
	(10 to 20) Hz	1.8 mA/A + 20 µA	
	(20 to 45) Hz	0.9 mA/A + 20 µA	
	45 Hz to 1kHz	0.4 mA/A + 20 µA	
	(1 to 5) kHz	1.0 mA/A + 50 µA	
	(5 to 10) kHz	2.0 mA/A + 100 µA	
	(10 to 30) kHz	4.0 mA/A + 200 µA	
	(0.33 to 1.1) A		
	(10 to 45) Hz	1.8 mA/A + 100 µA	
	45 Hz to 1 kHz	0.5 mA/A + 100 µA	
(1 to 5) kHz	6.0 mA/A + 1 mA		
(5 to 10) kHz	25 mA/A + 5 mA		

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AC Current – Source cont'd.	(1.1 to 3.0) A (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (3 to 11) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz (11 to 20.5) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	1.8 mA/A + 100 µA 0.6 mA/A + 100 µA 6.0 mA/A + 1 mA 25 mA/A + 5 mA 0.6 mA/A + 2 mA 1.0 mA/A + 2 mA 3.0 mA/A + 2 mA 1.2 mA/A + 5 mA 1.5 mA/A + 5 mA 30 mA/A + 5 mA	Fluke 5520A
AC Current – Measure	(0 to 1) A 10 Hz to 5 kHz (1 to 3) A 10 Hz to 5 kHz	1 mA/A + 400 µA 4.5 mA/A + 1.8 mA	HP 34401A

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Capacitance – Source	(0.19 to 0.4) nF (0.4 to 1.1) nF (1.1 to 3.3) nF (3.3 to 11) nF (11 to 33) nF (33 to 110) nF (110 to 330) nF (330 to 1100) nF (1.1 to 3.3) μF (3.3 to 11) μF (11 to 33) μF (33 to 110) μF (110 to 330) μF (330 to 1100) μF (1.1 to 3.3) mF (3.3 to 11) mF (11 to 33) mF (33 to 110) mF	5 nF/μF + 0.01 nF 5 nF/μF + 0.01 nF 5 nF/μF + 0.01 nF 2.5 nF/μF + 0.01 nF 2.5 nF/μF + 0.1 nF 2.5 nF/μF + 0.1 nF 2.5 nF/μF + 0.3 nF 2.5 nF/μF + 1 nF 2.5 nF/μF + 3 nF 2.5 nF/μF + 10 nF 4 nF/μF + 30 nF 4.5 nF/μF + 100 nF 4.5 nF/μF + 300 nF 4.5 nF/μF + 1 μF 4.5 μF/mF + 3 μF 4.5 μF/mF + 10 μF 7.5 μF/mF + 30 μF 11 μF/mF + 100 μF	Fluke 5520A
Frequency – Source	0.01 Hz to 2.0 MHz	2.5 μHz/Hz + 5 μHz	Fluke 5520

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Frequency – Measure	10 Hz to 10 MHz (3 to 5) Hz (5 to 10) Hz	10 µHz/Hz + 0.1 Hz 0.1% of reading 0.05% of reading	Agilent 5314A HP 34401A

¹ “Best Measurement Capability” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or of nearly ideal measuring instruments. Best Measurement Capabilities are expressed as uncertainties at approximately the 95% level of confidence, usually using a coverage factor of $k=2$. The measurement uncertainty of a specific calibration performed by the laboratory may be greater than the least uncertainty due to the behavior of the customer’s device, to the environment (if the calibration is performed in the field), and to influences from the circumstances of the specific calibration.

NOTE: Calibration parameters are performed primarily on-site at customer locations. The uncertainty of scale/balance calibration is highly dependent on local conditions, such as scale resolution and sensitivity, scale cleanliness, local gravity, temperature and humidity, dust, vibration, etc.; therefore, any statement of uncertainty is misleading. The class of the best weights used by the laboratory is shown in the Technique column. Use of weights in combination, whether in the same class or different classes, will increase measurement uncertainty resulting from the additive effect of weight tolerances, as defined in ASTM E 617.

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