



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Axiom Test Equipment
2610 Commerce Way
Vista, CA 92081

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 17 October 2024
Certificate Number: AC-2626



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Axiom Test Equipment
 2610 Commerce Way
 Vista, CA 92081
 Spencer Campbell (760) 806-6600

CALIBRATION

Valid to: **October 17, 2024**

Certificate Number: **AC-2626**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Current – Source	(10 to 220) μ A		Fluke 5700A Multiproduct Calibrator, Fluke 5725A Amplifier
	(10 to 20) Hz	0.18 μ A	
	(20 to 40) Hz	99 nA	
	40 Hz to 1 kHz	50 nA	
	(1 to 5) kHz	0.17 μ A	
	(5 to 10) kHz	0.43 μ A	
	(0.22 to 2.2) mA		
	(10 to 20) Hz	1.6 μ A	
	(20 to 40) Hz	0.82 μ A	
	40 Hz to 1 kHz	0.38 μ A	
	(1 to 5) kHz	1.7 μ A	
	(5 to 10) kHz	4.3 μ A	
	(2.2 to 22) mA		
	(10 to 20) Hz	16 μ A	
	(20 to 40) Hz	8.1 μ A	
	40 Hz to 1 kHz	3.4 μ A	
	(1 to 5) kHz	17 μ A	
	(5 to 10) kHz	43 μ A	
	(22 to 220) mA		
	(10 to 20) Hz	0.16 mA	
	(20 to 40) Hz	82 μ A	
40 Hz to 1 kHz	38 μ A		
(1 to 5) kHz	0.17 mA		
(5 to 10) kHz	0.43 mA		
(0.22 to 2.2) A			
20 Hz to 1 kHz	1.5 mA		
(1 to 5) kHz	1.7 mA		
(5 to 10) kHz	19 mA		

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Current – Source	(2.2 to 11) A 20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	5.2 mA 11 mA 40 mA	Fluke 5700A Multiproduct Calibrator, Fluke 5725A Amplifier
AC Current – Measure	Up to 100 μ A (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz (0.1 to 1) kHz (0.1 to 1) mA (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 10) kHz (1 to 10) mA (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 10) kHz (10 to 100) mA (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 10) kHz (0.1 to 1) A (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 10) kHz	0.43 μ A 0.18 μ A 92 nA 92 nA 4.2 μ A 1.7 μ A 0.81 μ A 0.52 μ A 0.81 μ A 42 μ A 17 μ A 8.1 μ A 5.2 μ A 8.1 μ A 0.42 mA 0.17 mA 81 μ A 52 μ A 81 μ A 4.2 mA 1.8 mA 1 mA 1.2 mA 3.2 mA	Agilent 3458A 8.5 Digit Multimeter
AC Voltage – Source	Up to 2.2 mV (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	6.1 μ V 5.3 μ V 5.1 μ V 6 μ V 9.7 μ V 17 μ V 30 μ V 35 μ V	Fluke 5700A Multiproduct Calibrator

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Voltage – Source	(2.2 to 22) mV		Fluke 5700A Multiproduct Calibrator
	(10 to 20) Hz	13 μ V	
	(20 to 40) Hz	5.4 μ V	
	40 Hz to 20 kHz	3.6 μ V	
	(20 to 50) kHz	9.5 μ V	
	(50 to 100) kHz	20 μ V	
	(100 to 300) kHz	29 μ V	
	(300 to 500) kHz	42 μ V	
	500 kHz to 1 MHz	82 μ V	
	(22 to 220) mV		
	(10 to 20) Hz	0.12 mV	
	(20 to 40) Hz	47 μ V	
	40 Hz to 20 kHz	24 μ V	
	(20 to 50) kHz	71 μ V	
	(50 to 100) kHz	0.19 mV	
	(100 to 300) kHz	0.25 mV	
	(300 to 500) kHz	0.38 mV	
	500 kHz to 1 MHz	0.77 mV	
	(0.22 to 2.2) V		
	(10 to 20) Hz	1.2 mV	
	(20 to 40) Hz	0.38 mV	
	40 Hz to 20 kHz	0.18 mV	
	(20 to 50) kHz	0.29 mV	
	(50 to 100) kHz	0.63 mV	
	(100 to 300) kHz	1.1 mV	
	(300 to 500) kHz	2.7 mV	
	500 kHz to 1 MHz	5.9 mV	
	(2.2 to 22) V		
(10 to 20) Hz	12 mV		
(20 to 40) Hz	3.8 mV		
40 Hz to 20 kHz	1.8 mV		
(20 to 50) kHz	2.9 mV		
(50 to 100) kHz	6 mV		
(100 to 300) kHz	13 mV		
(300 to 500) kHz	32 mV		
500 kHz to 1 MHz	69 mV		
(22 to 220) V			
(20 to 40) Hz	39 mV		
40 Hz to 20 kHz	19 mV		
(20 to 50) kHz	53 mV		
(50 to 100) kHz	96 mV		

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Voltage – Source	(220 to 1 100) V 40 Hz to 1 kHz (1 to 20) kHz (20 to 30) kHz	99 mV 94 mV 0.18 V	Fluke 5700A Multiproduct Calibrator
AC Voltage – Measure	(1 to 10) mV 40 Hz to 1 kHz (1 to 20) kHz (20 to 100) kHz (100 to 300) kHz (10 to 100) mV 40 Hz to 1 kHz (1 to 20) kHz (20 to 100) kHz (100 to 300) kHz (0.1 to 1) V 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 10) V (1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (10 to 100) V 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 1 000) V 40 Hz to 1 kHz	4.2 μ V 5 μ V 52 μ V 0.4 mV 10 μ V 17 μ V 84 μ V 0.31 mV 0.11 mV 0.17 mV 0.33 mV 0.84 mV 3.1 mV 10 mV 0.9 μ V 1.6 mV 3.2 mV 8.4 mV 31 mV 36 mV 0.15 V 22 mV 22 mV 38 mV 0.12 V 0.42 V	Agilent 3458A 8.5 Digit Multimeter
DC Current – Source	Up to 220 μ A (0.22 to 2.2) mA (2.2 to 22) mA (22 to 220) mA (0.22 to 2.2) A (2.2 to 11) A	19 nA 0.12 μ A 1.2 μ A 14 μ A 0.21 mA 1.3 mA	Fluke 5700A Multiproduct Calibrator, Fluke 5725A Amplifier

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Current – Measure	Up to 100 nA (0.1 to 1) μ A (1 to 10) μ A (10 to 100) μ A (0.1 to 1) mA (1 to 10) mA (10 to 100) mA (0.1 to 1) A	43 pA 62 pA 0.33 nA 2.8 nA 26 nA 0.26 μ A 4 μ A 0.12 mA	Agilent 3458A 8.5 Digit Multimeter
DC Voltage – Source	Up to 220 mV (0.22 to 2.2) V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1 100) V	2.7 μ V 17 μ V 81 μ V 0.16 mV 1.8 mV 11 mV	Fluke 5700A Multiproduct Calibrator
DC Voltage – Measure	Up to 100 mV 100 mV to 1 V (1 to 10) V (10 to 100) V (100 to 1 000) V	1.2 μ V 5.7 μ V 49 μ V 0.73 mV 20 mV	Agilent 3458A 8.5 Digit Multimeter
DC Resistance – Source (Simulated-Fixed Points)	1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 k Ω 1.9 k Ω 10 k Ω 19 k Ω 100 k Ω 190 k Ω 1 M Ω 1.9 M Ω 10 M Ω 19 M Ω 100 M Ω	97 $\mu\Omega$ 0.18 m Ω 0.3 m Ω 0.55 m Ω 2 m Ω 3.7 m Ω 16 m Ω 30 m Ω 0.16 Ω 0.28 Ω 1.7 Ω 3.2 Ω 24 Ω 57 Ω 0.48 k Ω 3.5 k Ω 19 k Ω	Fluke 5700A Multiproduct Calibrator

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Resistance – Measure	Up to 10 Ω	0.2 m Ω	Agilent 3458A 8.5 Digit Multimeter
	(10 to 100) Ω	1.7 m Ω	
	(0.1 to 1) k Ω	11 m Ω	
	(1 to 10) k Ω	0.11 Ω	
	(10 to 100) k Ω	1.1 Ω	
	(0.1 to 1) M Ω	18 Ω	
	(1 to 10) M Ω	0.13 k Ω	
(10 to 100) M Ω	51 k Ω		
(0.1 to 1) G Ω	5 M Ω		


Time and Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Frequency – Source	(1 to 120) Hz	13 mHz	Fluke 5700A Multiproduct Calibrator
	120 to 1.2 kHz	1.2 Hz	
	(1.2 to 12) kHz	1.3 Hz	
	(12 to 120) kHz	13 Hz	
	120 kHz to 1.2 MHz	0.13 kHz	
Frequency – Measure	40 Hz to 10 MHz	1 kHz	Agilent 3458A 8.5 Digit Multimeter

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2626.



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