Accredited Laboratory

A2LA has accredited

TESTEQUITY LLC

Oceanside, CA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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*).

American Association for Laboratory Accreditation CORPORATE SEAL 1978 DISTRICT OF COLUMBIA A2LA

Presented this 3rd day of June 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3159.01
Valid to July 31, 2027

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

TESTEQUITY LLC
1935 Plaza Real
Oceanside, CA 92056
Kevin Minor Phone: 760 639 1700

CALIBRATION

Valid To: July 31, 2027 Certificate Number: 3159.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 4]:

I. Electrical – DC/Low Frequency

Parameter/Range	Frequency	CMC[2, 3] (±)	Comments
AC Current – Generate			
(10 to 220) µA	(10 to 20) Hz	72 nA	Fluke 5730A
	(20 to 40) Hz	47 nA	
	40 Hz to 1 kHz	36 nA	
	(1 to 5) kHz	81 nA	
	(5 to 10) kHz	0.31 µA	
220 µA to 2.2 mA	(10 to 20) Hz	0.60 µA	
	(20 to 40) Hz	0.40 µA	
	40 Hz to 1 kHz	0.28 µA	
	(1 to 5) kHz	0.57 µA	
	(5 to 10) kHz	3.1 µA	
(2.2 to 22) mA	(10 to 20) Hz	6.1 µA	
	(20 to 40) Hz	4.0 µA	
	40 Hz to 1 kHz	2.8 µA	
	(1 to 5) kHz	5.2 µA	
	(5 to 10) kHz	29 µA	

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Parameter/Range	Frequency	CMC[2, 3] (±)	Comments
AC Current – Generate (cont)			
(22 to 220) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	61 µA 40 µA 28 µA 50 µA 0.25 mA	Fluke 5730A
220 mA to 2.2 A	20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.59 mA 1.1 mA 16 mA	
AC Current – Measure			
Up to 100 µA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 1 kHz	0.43 µA 0.18 µA 0.091 µA 0.091 µA	Agilent 3458A, option 002
100 µA to 1 mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz	4.2 µA 1.7 µA 0.80 µA 0.51 µA 0.80 µA	
(1 to 10) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz	42 µA 17 µA 8.1 µA 5.1 µA 8.1 µA	
(10 to 100) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz	0.42 mA 0.17 mA 81 µA 51 µA 81 µA	
100 mA to 1 A	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz	4.2 mA 1.8 mA 1.0 mA 1.2 mA 3.2 mA	

Parameter/Range	Frequency	CMC[2, 3] (±)	Comments
AC Voltage – Generate			
Up to 2.2 mV	(10 to 20) Hz	4.6 µV	Fluke 5730A
	(20 to 40) Hz	4.7 µV	
	40 Hz to 20 kHz	4.2 µV	
	(20 to 50) kHz	4.4 µV	
	(50 to 100) kHz	6.1 µV	
	(100 to 300) kHz	12 µV	
	(300 to 500) kHz	25 µV	
	500 kHz to 1 MHz	27 µV	
(2.2 to 22) mV	(10 to 20) Hz	11 µV	
	(20 to 40) Hz	6.3 µV	
	40 Hz to 20 kHz	6.0 µV	
	(20 to 50) kHz	8.6 µV	
	(50 to 100) kHz	15 µV	
	(100 to 300) kHz	32 µV	
	(300 to 500) kHz	49 µV	
	500 kHz to 1 MHz	0.086 mV	
(22 to 220) mV	(10 to 20) Hz	62 µV	
	(20 to 40) Hz	28 µV	
	40 Hz to 20 kHz	19 µV	
	(20 to 50) kHz	34 µV	
	(50 to 100) kHz	0.082 mV	
	(100 to 300) kHz	0.17 mV	
	(300 to 500) kHz	0.31 mV	
	500 kHz to 1 MHz	0.63 mV	
220 mV to 2.2 V	(10 to 20) Hz	0.52 mV	
	(20 to 40) Hz	0.21 mV	
	40 Hz to 20 kHz	0.10 mV	
	(20 to 50) kHz	0.16 mV	
	(50 to 100) kHz	0.21 mV	
	(100 to 300) kHz	0.79 mV	
	(300 to 500) kHz	2.2 mV	
	500 kHz to 1 MHz	4.1 mV	
(2.2 to 22) V	(10 to 20) Hz	5.3 mV	
	(20 to 40) Hz	2.1 mV	
	40 Hz to 20 kHz	0.93 mV	
	(20 to 50) kHz	1.5 mV	
	(50 to 100) kHz	1.9 mV	
	(100 to 300) kHz	5.8 mV	
	(300 to 500) kHz	23 mV	
	500 kHz to 1 MHz	40 mV	

Parameter/Range	Frequency	CMC[2, 3] (±)	Comments
AC Voltage – Generate (cont)			
(22 to 220) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	54 mV 20 mV 12 mV 18 mV 34 mV	Fluke 5730A
(220 to 1100) V	(15 to 50) Hz 50 Hz to 1 kHz	0.35 V 0.12 V	
AC Voltage – Measure			
(10 to 100) mV	(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	24 µV 10 µV 18 µV 33 µV 90 µV 0.31 mV 1.0 mV	Agilent 3458A, option 002
100 mV to 1 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	0.12 mV 0.096 mV 0.17 mV 0.33 mV 0.84 mV 3.1 mV 10 mV	
(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	1.1 mV 0.95 mV 1.7 mV 3.3 mV 8.3 mV 31 mV 0.10 V	
(10 to 100) V	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz	25 mV 22 mV 24 mV 39 mV 0.12 V	

Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
DC Current – Generate	(0 to 220) µA 220 µA to 2.2 mA (2.2 to 22) mA (22 to 220) mA 220 mA to 2.2 A	15 nA 87 nA 0.84 µA 11 µA 0.20 mA	Fluke 5730A
DC Current – Measure	(10 to 100) µA 100 µA to 1 mA (1 to 10) mA (10 to 100) mA 100 mA to 1 A	3.6 nA 32 nA 0.33 µA 5.1 µA 0.13 mA	Agilent 3458A, option 002
DC Voltage – Generate	(0 to 0.22) V (0.22 to 2.2) V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1100) V	2.1 µV 12 µV 43 µV 85 µV 1.1 mV 7.8 mV	Fluke 5730A
DC Voltage – Measure	0 V to 100 mV 100 mV to 1 V (1 to 10) V (10 to 100) V 100 V to 1 kV	1.1 µV 6.5 µV 62 µV 0.84 mV 9.7 mV	Agilent 3458A, option 002
DC Resistance – Generate, Fixed Points	0 Ω 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 kΩ 1.9 kΩ 10 kΩ 19 kΩ 100 kΩ	43 µΩ 98 µΩ 0.18 mΩ 0.25 mΩ 0.46 mΩ 1.0 mΩ 2.0 mΩ 6.8 mΩ 13 mΩ 67 mΩ 0.13 Ω 0.88 Ω	Fluke 5730A

Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
DC Resistance – Generate, Fixed Points (cont)	190 kΩ 1 MΩ 1.9 MΩ 10 MΩ 19 MΩ 100 MΩ	1.7 Ω 14 Ω 36 Ω 0.43 kΩ 0.95 kΩ 11 kΩ	Fluke 5730A
DC Resistance – Measure	(0 to 10) Ω (10 to 100) Ω 100 Ω to 1 kΩ (1 to 10) kΩ (10 to 100) kΩ 100 kΩ to 1 MΩ (1 to 10) MΩ (10 to 100) MΩ	0.24 mΩ 2.0 mΩ 14 mΩ 0.14 Ω 1.4 Ω 21 Ω 0.68 kΩ 55 kΩ	Agilent 3458A, option 002

[1] This laboratory offers commercial calibration service.

[2] Calibration and Measurement Capability Uncertainty (CMC) 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 nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a fraction/percentage of the reading plus a fixed floor specification.

[4] This scope meets A2LA's *P112 Flexible Scope Policy*.