



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

KIMBALL ELECTRONIC LABORATORY, INC.  
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CALIBRATION

Valid To: June 30, 2026

Certificate Number: 2178.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations<sup>1,8</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2,3</sup> ( $\pm$ )	Comments
Calipers	Up to 24 in	$(280 + 11L) \mu\text{in}$	Gage blocks
Gage Blocks	Up to 4 in	$(3.0 + 1L) \mu\text{in}$	Grade 0 Gage Blocks with TESA UPC Comparator
Micrometers	Up to 12 in	$(62 + 15L) \mu\text{in}$	Gage blocks
Plug Gages	Up to 4 in	48 $\mu\text{in}$	ULM-600C
Dial Indicators	Up to 1 in	$(58 + 3.7L) \mu\text{in}$	Dial indicator calibrator

II. Electrical – DC/ Low Frequency

Parameter/Equipment	Range	CMC <sup>2, 4, 5, 7</sup> ( $\pm$ )	Comments
DC Voltage – Generate	(0 to 220) mV (0.22 to 2.2) V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1100) V	7.4 $\mu$ V/V + 0.54 $\mu$ V 5.0 $\mu$ V/V + 0.87 $\mu$ V 3.8 $\mu$ V/V + 2.1 $\mu$ V 3.9 $\mu$ V/V + 1.4 $\mu$ V 5.1 $\mu$ V/V + 41 $\mu$ V 6.9 $\mu$ V/V + 330 $\mu$ V	Fluke 5730A
DC Voltage – Measure	Up to 100 mV (0.1 to 1) V (1 to 10) V (10 to 100) V (100 to 1000) V	13 $\mu$ V/V + 0.4 $\mu$ V 14 $\mu$ V/V + 0.3 $\mu$ V 14 $\mu$ V/V + 0.5 $\mu$ V 14 $\mu$ V/V + 31 $\mu$ V 14 $\mu$ V/V + 90 $\mu$ V	Fluke 8588A
DC Current – Generate	(0 to 220) $\mu$ A (0.22 to 2.2) mA (2.2 to 22) mA (22 to 220) mA 220 mA to 2.2 A  (1 to 10) A	0.0033 % + 0.002 $\mu$ A 36 $\mu$ A/A + 0.008 $\mu$ A 37 $\mu$ A/A + 0.038 $\mu$ A 39 $\mu$ A/A + 2.6 $\mu$ A 0.008 % + 12 $\mu$ A  0.069 % + 250 $\mu$ A	Fluke 5730A      Fluke 5522A
DC Current – Measure	(10 to 100) $\mu$ A 100 $\mu$ A to 1 mA (1 to 10) mA (10 to 100) mA 100 mA to 1 A	22 $\mu$ A/A + 0.83 nA 18 $\mu$ A/A + 0.017 $\mu$ A 18 $\mu$ A/A + 0.17 $\mu$ A 28 $\mu$ A/A + 2.3 $\mu$ A 0.010 % + 44 $\mu$ A	Fluke 8588A
Resistance – Generate	(0 to 11) $\Omega$ (11 to 33) $\Omega$ (33 to 110) $\Omega$ (110 to 330) $\Omega$ (330 to 1100) $\Omega$ (1.1 to 3.3) k $\Omega$ (3.3 to 11) k $\Omega$ (11 to 33) k $\Omega$ (33 to 110) k $\Omega$ (110 to 330) k $\Omega$ (330 to 1100) k $\Omega$ (1.1 to 3.3) M $\Omega$ (3.3 to 11) M $\Omega$ (11 to 33) M $\Omega$ (33 to 110) M $\Omega$ (110 to 330) M $\Omega$	0.012 % + 8 m $\Omega$ 0.012 % + 15 m $\Omega$ 0.009 % + 15 m $\Omega$ 0.009 % + 15 m $\Omega$ 0.010 % + 56 m $\Omega$ 0.009 % + 60 m $\Omega$ 0.009 % + 600 m $\Omega$ 0.009 % + 600 m $\Omega$ 0.011 % + 6 $\Omega$ 0.012 % + 6 $\Omega$ 0.015 % + 55 $\Omega$ 0.015 % + 55 $\Omega$ 0.06 % + 560 $\Omega$ 0.10 % + 550 $\Omega$ 0.51 % + 5.3 k $\Omega$ 0.51 % + 17 k $\Omega$	Fluke 5522A

Parameter/Equipment	Range	CMC <sup>2,4,5,7</sup> (±)	Comments
Resistance – Generate (cont)			Fluke 5522A
Fixed Points	1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 kΩ 1.9 kΩ 10 kΩ 19 kΩ 100 kΩ 190 kΩ 1 MΩ 1.9 MΩ 10 MΩ 19 MΩ 100 MΩ	100 μΩ/Ω 97 μΩ/Ω 26 μΩ/Ω 25 μΩ/Ω 11 μΩ/Ω 11 μΩ/Ω 7 μΩ/Ω 11 μΩ/Ω 7 μΩ/Ω 11 μΩ/Ω 10 μΩ/Ω 12 μΩ/Ω 14 μΩ/Ω 19 μΩ/Ω 42 μΩ/Ω 51 μΩ/Ω 0.012 MΩ	Fluke 5730A
Resistance – Measure	(0 to 10) Ω (10 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	0.0010 % + 0.6 mΩ 0.0011 % + 2.4 mΩ 0.0014 % + 5.0 mΩ 0.0018 % + 9.3 mΩ 0.0018 % + 93 mΩ 0.0023 % + 3.8 Ω 0.008 % + 97 Ω 0.103 % + 690 Ω	HP 3458A Fluke 8588A

Parameter/Equipment	Frequency	CMC <sup>2,4,5,7</sup> (±)	Comments
AC Voltage – Generate			
(0.2 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	0.022 % + 4.1 μV 0.07 % + 4.4 μV 0.008 % + 4.1 μV 0.019 % + 4.9 μV 0.049 % + 5.1 μV 0.1 % + 10 μV 0.14 % + 20 μV 0.26 % + 21 μV	Fluke 5730A

Parameter/Equipment	Frequency	CMC <sup>2, 4, 5, 7</sup> ( $\pm$ )	Comments
AC Voltage – Generate (cont)			
(2.2 to 22) 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	0.026 % + 4 $\mu$ V 0.010 % + 4.3 $\mu$ V 0.008 % + 4 $\mu$ V 0.02 % + 4 $\mu$ V 0.05 % + 5 $\mu$ V 0.11 % + 10 $\mu$ V 0.14 % + 20 $\mu$ V 0.29 % + 20 $\mu$ V	Fluke 5730A
(22 to 220) 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	0.029 % + 3.3 $\mu$ V 0.011 % + 3.9 $\mu$ V 0.008 % + 4.1 $\mu$ V 0.013 % + 5.6 $\mu$ V 0.036 % + 8.3 $\mu$ V 0.067 % + 20 $\mu$ V 0.14 % + 20 $\mu$ V 0.29 % + 21 $\mu$ V	
220 mV to 2.2 V	(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	0.025 % + 0.04 $\mu$ V 0.010 % + 0.01 $\mu$ V 0.006 % + 0.01 $\mu$ V 0.008 % + 0.01 $\mu$ V 0.007 % + 0.07 $\mu$ V 0.034 % + 0.09 $\mu$ V 0.1 % + 0.1 $\mu$ V 0.18 % + 0.27 $\mu$ V	
(2.2 to 22) V	(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	0.025 % + 0.40 mV 0.010 % + 0.14 mV 0.006 % + 0.04 mV 0.068 % + 1 mV 0.089 % + 2 mV 0.027 % + 0.59 mV 0.10 % + 2 mV 0.17 % + 2.9 mV	
(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 (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	0.025 % + 0.24 mV 0.010 % + 0.26 mV 0.006 % + 0.19 mV 0.008 % + 0.02 mV 0.014 % + 0.41 mV 0.09 % + 0.08 mV 0.44 % + 0.05 mV 0.80 % + 0.09 mV	
(220 to 1100) V	(15 to 50) Hz 50 Hz to 1 kHz	0.027 % + 7.5 mV 0.007 % + 3.1 mV	

Parameter/Equipment	Frequency	CMC <sup>2, 4, 5, 7</sup> ( $\pm$ )	Comments
AC Voltage – Generate (cont)  (330 to 1000) V	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.05 % + 81 mV 0.21 % + 120 mV 0.21 % + 510 mV	Fluke 5522A
AC Voltage – Measure  (1 to 10) 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	0.022 % + 4.5 $\mu$ V 0.011 % + 3.2 $\mu$ V 0.020 % + 3.1 $\mu$ V 0.050 % + 9.3 $\mu$ V 0.041 % + 11 $\mu$ V 3.3 % + 75 $\mu$ V	HP 3458A Fluke 8588A
(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	0.009 % + 4.7 $\mu$ V 0.012 % + 2.8 $\mu$ V 0.018 % + 2.8 $\mu$ V 0.044 % + 5.9 $\mu$ V 0.085 % + 4.9 $\mu$ V 0.27 % + 50 $\mu$ V	
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	0.008 % + 39 $\mu$ V 0.008 % + 21 $\mu$ V 0.015 % + 21 $\mu$ V 0.031 % + 32 $\mu$ V 0.082 % + 25 $\mu$ V 0.31 % + 0.1 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	0.008 % + 0.39 mV 0.008 % + 0.19 mV 0.016 % + 0.19 mV 0.033 % + 0.19 mV 0.082 % + 0.21 mV	
(10 to 100) V	40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.023 % + 1.8 mV 0.023 % + 1.8 mV 0.038 % + 1.9 mV 0.13 % + 1.6 mV	
(100 to 700) V	40 Hz to 1 kHz	0.042 % + 20 mV	

Parameter/Equipment	Frequency	CMC <sup>2, 4, 5, 7</sup> (±)	Comments
AC Current – Generate		.	
(0 to 220) µA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.024 % + 22 nA 0.016 % + 12 nA 0.011 % + 8.4 nA 0.028 % + 20 nA 0.11 % + 66 nA	Fluke 5730A
(0.22 to 2.2) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.028 % + 13 nA 0.018 % + 7 nA 0.013 % + 5.3 nA 0.025 % + 27 nA 0.14 % + 4.8 nA	
(2.2 to 22) mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.027 % + 370 nA 0.017 % + 350 nA 0.011 % + 340 nA 0.021 % + 540 nA 0.11 % + 5 µA	Fluke 5730A
(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	0.026 % + 4.2 µA 0.017 % + 3.3 µA 0.012 % + 2.3 µA 0.021 % + 3.4 µA 0.11 % + 9.7 µA	
(0.22 to 2.2) A	20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.025 % + 34 µA 0.046 % + 78 µA 0.71 % + 150 µA	Fluke 5522A
(1 to 10) A	(45 to 65) Hz (65 to 500) Hz 500 Hz to 1 kHz	0.07 % + 2.1 mA 0.10 % + 2.1 mA 0.33 % + 2.1 mA	

Parameter/Equipment	Frequency	CMC <sup>2, 4, 5, 7</sup> (±)	Comments
AC Current – Measure			
Up to 100 µA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	0.40 % + 0.04 µA 0.15 % + 0.03 µA 0.06 % + 0.03 µA 0.06 % + 0.03 µA	HP 3458A Fluke 8588A
100 µA to 1 mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	0.41 % + 0.21 µA 0.15 % + 0.22 µA 0.06 % + 0.20 µA 0.03 % + 0.20 µA	
(1 to 10) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	0.40 % + 2 µA 0.15 % + 2 µA 0.06 % + 2 µA 0.03 % + 2 µA	
(10 to 100) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	0.40 % + 20 µA 0.15 % + 20 µA 0.06 % + 20 µA 0.03 % + 20 µA	
100 mA to 1 A	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	0.40 % + 200 µA 0.16 % + 200 µA 0.08 % + 200 µA 0.10 % + 200 µA	

Parameter/Equipment	Range	CMC <sup>2, 4, 5, 7</sup> (±)	Comments
Capacitance – Generate @ 1 kHz	(0.5 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 (0.33 to 1.1) µF (1.1 to 3.3) µF (3.3 to 11) µF (11 to 33) µF (33 to 110) µF (110 to 330) µF 330 µF to 1.1 mF	0.45 % + 11 pF 0.51 % + 10 pF 0.50 % + 11 pF 0.26 % + 100 pF 0.26 % + 100 pF 0.26 % + 290 pF 0.23 % + 1.1 nF 0.36 % + 3 nF 0.36 % + 9.9 nF 0.41 % + 30 nF 0.79 % + 13 nF 0.67 % + 490 nF 1.0 % + 370 nF	Fluke 5522A

Parameter/Equipment	Range	CMC <sup>2, 4, 5, 7</sup> (±)	Comments
Electrical Calibration of Thermocouple Indicating Equipment –			
Type B	(600 to 800) °C (800 to 1000) °C (1000 to 1550) °C (1550 to 1820) °C	0.47 °C 0.43 °C 0.33 °C 0.36 °C	Fluke 5522A
Type C	(0 to 150) °C (150 to 650) °C (650 to 1000) °C (1000 to 1800) °C (1800 to 2316) °C	0.32 °C 0.30 °C 0.34 °C 0.52 °C 0.86 °C	
Type E	(-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1000) °C	0.53 °C 0.19 °C 0.18 °C 0.20 °C 0.26 °C	
Type J	(-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1200) °C	0.29 °C 0.19 °C 0.17 °C 0.20 °C 0.26 °C	
Type K	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1000) °C (1000 to 1372) °C	0.34 °C 0.21 °C 0.19 °C 0.28 °C 0.41 °C	

Parameter/Equipment	Range	CMC <sup>2, 4, 5, 7</sup> (±)	Comments
Electrical Calibration of Thermocouple Indicating Equipment –			
Type N	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 410) °C (410 to 1300) °C	0.41 °C 0.24 °C 0.22 °C 0.21 °C 0.29 °C	Fluke 5522A
Type R	(0 to 250) °C (250 to 400) °C (400 to 1000) °C (1000 to 1767) °C	0.58 °C 0.36 °C 0.35 °C 0.41 °C	
Type S	(0 to 250) °C (250 to 1000) °C (1000 to 1400) °C (1400 to 1767) °C	0.48 °C 0.37 °C 0.38 °C 0.47 °C	
Type T	(-250 to -150) °C (-150 to 0) °C (0 to 120) °C (120 to 400) °C	0.64 °C 0.26 °C 0.19 °C 0.17 °C	

### III. Electrical – RF/Microwave

Parameter/Range	Frequency	CMC <sup>2, 5, 7</sup> (±)	Comments
Amplitude Modulation – Measure			
Rate: 50 Hz to 10 kHz Depths: (5 to 99) %	150 kHz to 10 MHz	2 % + 0.17 % FS	R&S FMR measuring receiver
Rate: 20 Hz to 10 kHz Depths: (5 to 99) %	150 kHz to 10 MHz	3.0 % + 0.16 % FS	
Rate: 50 Hz to 50 kHz Depths: (5 to 99) %	(10 to 1300) MHz	1.0 % + 0.18 % FS	
Rate: 20 Hz to 100 kHz Depths: (5 to 99) %	(10 to 1300) MHz	3 % + 0.16 % FS	

Parameter/Equipment	Range	CMC <sup>2, 6, 7</sup> (±)	Comments
Frequency Modulation – Measure			
Rate: 20 Hz to 10 kHz Dev: ≤ 40 kHz Peak	250 kHz to 10 MHz	2.0 % + 0.12 % FS	R&S FMR measuring receiver
Rate: 50 Hz to 100 kHz Dev: ≤ 400 kHz Peak	(10 to 1300) MHz	0.97 % + 0.13 % FS	
Rate: 20 Hz to 200 kHz Dev: ≤ 400 kHz Peak	(10 to 1300) MHz	5.0 % + 0.11 % FS	
Distortion – Measure (Fixed Points)	1 kHz 20 kHz 100 kHz	2.3 dB 3.0 dB 3.0 dB	R&S FMR measuring receiver

#### IV. Mechanical

Parameter/Equipment	Range	CMC <sup>2, 6, 7</sup> (±)	Comments
Pneumatic Pressure Gauges and Transducers	(0 up to 20 psig (20 to 50) psig (50 to 100) psig (100 to 1000) psig (1000 to 2500) psig (2500 to 5000) psig	0.016 psig 0.036 psig 0.086 psig 0.65 psig 2.6 psig 4.3 psig	Eaton UPS 3000
	Up to 50 psig (50 to 10000) psig	0.00015 % + 0.0013 psig 0.00017 % + 0.0051 psig	Ruska 2468A
	(5000 to 7500) psig	4.4 psig	Heise HQS
	(1000 to 6000) psig (3000 to 15 000) psig	0.012 % + 0.1 psig 0.015 %	Fluke PPCH-G
Air Data Test Sets and Pitot Testers	(0.5 to 32) in·Hg (32 to 68) in·Hg	(0.5 to 32) in·Hg (32 to 68) in·Hg	Fluke Ruska 7750i Ruska 2468A
Hydraulic Pressure Gauge	Up to 10 000 psig	0.061 %	Crystal digital pressure gauge

Parameter/Equipment	Range	CMC <sup>2, 6, 7</sup> (±)	Comments
Torque Measuring Equipment	(0 to 2000) ft·lbf	1.0 % Full scale	AKO TSD 4011
	(5 to 50) in·oz (15 to 200) in·oz	0.31 % 0.32 %	CDI 2000-4-02 CDI 2000-5-02
	(0 to 50) in·lbf (30 to 400) in·lbf (100 to 1000) in·lbf (20 to 250) ft·lbf	0.17 % + 0.11 in·lbf 0.28 % + 0.17 in·lbf 0.31 % + 0.03 in·lbf 0.26 % + 0.16 ft·lbf	CDI 2000-400-02
	(60 to 600) ft·lbf	0.30 % + 0.10 ft·lbf	CDI 2000-12-02
Force – Measuring Equipment			
Compression	Up to 500 lbf (500 to 1000) lbf (1000 to 5000) lbf (5000 to 50 000) lbf	0.05 lbf 0.12 lbf 0.60 lbf 6 lbf	Load cells
Tension	Up to 500 lbf (500 to 1000) lbf (1000 to 2000) lbf	0.05 lbf 0.12 lbf 0.60 lbf	Load cells
Scales & Balances	Up to 1 g (1 to 10) g (10 to 20) g (20 to 50) g (50 to 100) g (100 to 200) g (200 to 300) g (300 to 500) g (500 to 1000) g (1 to 2) kg (2 to 4) kg (4 to 5) kg (5 to 10) kg	0.04 mg 0.06 mg 0.07 mg 0.14 mg 0.29 mg 0.58 mg 0.88 mg 1.4 mg 2.9 mg 6.1 mg 12 mg 14 mg 29 mg	ASTM Class 1 Weights
	Up to 2 lb (2 to 5) lb (5 to 10) lb (10 to 20) lb (20 to 250) lb (25 to 50) lb (50 to 100) lb (100 to 5000) lb	0.000 24 lb 0.001 lb 0.0011 lb 0.0023 lb 0.0028 lb 0.0062 lb 0.006 lb 0.02 lb	Class F weights

## V. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2, 6, 7</sup> ( $\pm$ )	Comments
Temperature – Measuring Equipment	(-25 to 0) °C	0.038 °C	Fluke 9142 Fluke 7109A
	(0 to 50) °C	0.040 °C	
	(50 to 100) °C	0.046 °C	
	(100 to 140) °C	0.046 °C	
	(50 to 200) °C	0.080 °C	Fluke 9144
	(200 to 420) °C	0.098 °C	
	(420 to 550) °C	0.13 °C	
	(-45 to 140) °C	0.080 °C	Fluke 9170
	(18 to 28) °C	0.22 °C	Fluke 5128A
Humidity – Measure	(7 to 80) % RH	0.57 % RH	Fluke 5128A
	(80 to 95) % RH	0.64 % RH	

## VI. Time and Frequency

Parameter/Equipment	Range	CMC <sup>2, 7</sup> ( $\pm$ )	Comments
RPM – Measuring Equipment Non-Contact	(1 to 200 000) RPM	0.0019 % + 0.27 RPM	Fluke 5522A w LED

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> 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. Where ranges are not specified, the best measurement uncertainty stated is for the cardinal points only.

<sup>3</sup> In the statement of CMC,  $L$  is the numerical value of the nominal length of the device measured in inches.

<sup>4</sup> The measurands stated are generated with the Fluke 5730A and Fluke 5522A. This capability is suitable for the calibration of the devices intended to measure the stated measurand in the ranges indicated. CMC is read as output plus one-year floor specifications where defined. CMCs are expressed as either a specific value that covers the full range or as a combination of the percent or portion of the reading plus a fixed floor specification.

<sup>5</sup> The stated measured value are determine using the indicated instrument (see comments). This capability is suitable for the calibration of the devices intended to measure or generate the measurand in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a combination of the percent or portion of the reading plus a fixed floor specification.

<sup>6</sup> The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibration instruments that measure or generate the values in the range indicated for the listed measurement parameter.

<sup>7</sup> In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.

<sup>8</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.



## Accredited Laboratory

A2LA has accredited

### **KIMBALL ELECTRONIC LABORATORY, INC.**

*Hialeah, FL*

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/NC SL 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).



Presented this 2<sup>nd</sup> day of October 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2178.01  
Valid to June 30, 2026

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