



SCOPE OF ACCREDITATION

IAS Accreditation Number	CL-146
Accredited Entity	Standard Meter Laboratory, Inc.
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Accreditation Standard	ISO/IEC 17025:2005

CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ^{1,2} (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
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<i>Electrical – DC/LF</i>			
DC Voltage - Generate	0 mV to 329.9999 mV 330 mV to 3.29999 V 3.3 V to 32.99999 V 30 V to 329.9999 V 100 V to 1020 V	20 µV/V + 1 µV 11 µV/V + 2 µV 12 µV/V + 20 µV 18 µV/V + 150 µV 18 µV/V + 1.5 mV	Fluke 5522A
DC Voltage - Measure	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	13 µV/V + 3 µV 17 µV/V + 0.3 µV 13 µV/V + 0.5 µV 15 µV/V + 30 µV 27 µV/V + 100 µV	HP 3458A
DC High Voltage - Measure	1 kV to 20 kV 20 kV to 35 kV 35 kV to 80 kV	2% 1% 2%	Fluke 80K40 SML-150KV
DC Current - Generate	0 µA to 329.999 µA 330 µA to 3.29999 mA 3.3 mA to 32.9999 mA 33 mA to 329.999 mA 330 mA to 1.09999 A 1.1 A to 2.99999 A 3 A to 10.9999 A 11 A to 20.5 A	150 µA/A + 0.02 µA 100 µA/A + 0.05 µA 100 µA/A + 0.25 µA 100 µA/A + 2.5 µA 200 µA/A + 40 µA 380 µA/A + 40 µA 500 µA/A + 500 µA 0.1% + 750 µA	Fluke 5522A
Clamp Meter Calibrations	10 A to 16.4999 A 16.5 A to 149.999 A 150 A to 1025 A	5 mA/A + 0.02 A 5 mA/A + 0.14 A 5 mA/A + 0.5 A	5522A/Coil with 5522A 50-Turn Current Coil
DC Current - Measure	Up to 100 nA 100 nA to 1 µA 1 µA to 10 µA 10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 20 A	35 µA/A + 40 pA 25 µA/A + 40 pA 25 µA/A + 100 pA 25 µA/A + 800 pA 25 µA/A + 5 nA 25 µA/A + 50 nA 40 µA/A + 500 nA 115 µA/A + 10 µA 0.01%	HP3458A Fluke Y5020



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Resistance - Generate	0 Ω to 10.9999 Ω 11 Ω to 32.9999 Ω 33 Ω to 109.9999 Ω 110 Ω to 329.9999 Ω 330 Ω to 1.099999 kΩ 1.1 kΩ to 3.299999 kΩ 3.3 kΩ to 10.99999 kΩ 11 kΩ to 32.99999 kΩ 33 kΩ to 109.9999 kΩ 110 kΩ to 329.9999 kΩ 330 kΩ to 1.099999 MΩ 1.1 MΩ to 3.299999 MΩ 3.3 MΩ to 10.99999 MΩ 11 MΩ to 32.99999 MΩ 33 MΩ to 109.9999 MΩ 110 to 329.9999 MΩ 330 MΩ 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 0.3% + 100 kΩ 1.5% + 500 kΩ	Fluke 5522A
Frequency - Measure	1 Hz to 39.99999 Hz 40 Hz to 10 MHz	0.05% 0.01%	HP 3458A
Frequency - Generate	1 Hz to 2 MHz	0.00029%	Fluke 5522A
Resistance - Measure	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	19 μΩ/Ω + 0.06mΩ 13 μΩ/Ω + 0.6 mΩ 10 μΩ/Ω + 0.6mΩ 15 μΩ/Ω + 2.4 mΩ 59 μΩ/Ω + 120 mΩ 0.058% + 1.2 kΩ 1.8% + 10 kΩ	HP 3458A
AC Voltage – Generate	1 mV to 32.999 mV 10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz 33 mV to 329.999 mV 10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz 0.33 V to 3.29999 V 10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz	800 μV/V + 6 μV 150 μV/V + 6 μV 200 μV/V + 6 μV 0.1% + 6 μV 0.35% + 12 μV 0.8% + 50 μV 300 μV/V + 8 μV 145 μV/V + 8 μV 160 μV/V + 8 μV 350 μV/V + 8 μV 800 μV/V + 32 μV 0.2%+ 70 μV 300 μV/V + 50 μV 150 μV/V + 60 μV 190 μV/V + 60 μV 300 μV/V + 50 μV	Fluke 5522A



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AC Voltage – Generate continued	<p><i>0.33 V to 3.29999 V</i> 50 kHz to 100 kHz 100 kHz to 500 kHz</p> <p><i>3.3 V to 32.9999 V</i> 10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p><i>33 V to 329.999 V</i> 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p> <p><i>330 V to 1020 V</i> 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz</p>	<p>700 µV/V + 0.13 mV 0.24 % + 0.6 mV</p> <p>300 µV/V + 650 µV 150 µV/V + 600 µV 240 µV/V + 600 µV 350 µV/V + 600 µV 900 µV/V + 1.6 mV</p> <p>190 µV/V + 2 mV 200 µV/V + 6 mV 250 µV/V + 6 mV 300 µV/V + 6 mV 0.2% + 50 mV</p> <p>300 µV/V + 10 mV 250 µV/V + 10 mV 300 µV/V + 10 mV</p>	Fluke 5522A
AC Voltage – Measure	<p><i>1 mV to 10 mV</i> 1 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz</p> <p><i>10 mV to 100 mV</i> 1 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 2 MHz</p> <p><i>100 mV to 1 V</i> 1 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 2 MHz</p>	<p>0.03 % + 3 µV 0.02 % + 2 µV 0.03 % + 2 µV 0.12 % + 2 µV 0.58 % + 2 µV 4.6 % + 2 µV</p> <p>0.008% + 4 µV 0.008% + 2 µV 0.02 % + 2 µV 0.03 % + 2 µV 0.09 % + 2 µV 0.35 % + 10 µV 1.2 % + 10 µV 1.7 % + 10 µV</p> <p>0.008% + 40 µV 0.008% + 20 µV 0.02 % + 20 µV 0.03 % + 20 µV 0.09 % + 20 µV 0.35 % + 100 µV 1.2 % + 100 µV 1.7 % + 100 µV</p>	HP3458A, synchronous sub-sample mode



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AC Voltage – Measure continued	<p><i>1 V to 10 V</i></p> <p>1 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz 1 MHz to 2 MHz</p> <p><i>10 V to 100 V</i></p> <p>1 Hz to 40 Hz 40 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 300 kHz 300 kHz to 1 MHz</p> <p><i>100 V to 700 V</i></p> <p>1 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz</p>	<p>0.008% + 0.4 mV 0.008% + 0.2 mV 0.02 % + 0.2 mV 0.03 % + 0.2 mV 0.09 % + 0.2 mV 0.35 % + 1 mV 1.2 % + 1 mV 1.7 % + 1 mV</p> <p>0.02 % + 4 mV 0.02 % + 2 mV 0.04 % + 2 mV 0.14 % + 2 mV 0.46 % + 10 mV 1.7 % + 10 mV</p> <p>0.05 % + 40 mV 0.05 % + 20 mV 0.07 % + 20 mV 0.14 % + 20 mV 0.35 % + 20 mV</p>	HP3458A, synchronous sub-sample mode
High Voltage – Measure @ 60 Hz	1 kV to 28 kV rms	5%	Fluke 80K40 and HP3458A
AC Current – Generate	<p><i>29 µA to 329.99 µA</i></p> <p>10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 30 kHz</p> <p><i>330 µA to 3.29999 mA</i></p> <p>10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 30 kHz</p> <p><i>3.3 mA to 32.9999 mA</i></p> <p>10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 30 kHz</p>	<p>0.2 % + 0.1 µA 0.15 % + 0.1 µA 0.13 % + 0.1 µA 0.3 % + 0.15 µA 0.8 % + 0.2 µA 1.6 % + 0.4 µA</p> <p>0.2 % + 0.15 µA 0.13 % + 0.15 µA 0.1 % + 0.15 µA 0.2 % + 0.2 µA 0.5 % + 0.3 µA 1.0 % + 0.6 µA</p> <p>0.18 % + 2 µA 0.09 % + 2 µA 0.04 % + 2 µA 0.08 % + 2 µA 0.2 % + 3 µA 0.4 % + 4 µA</p>	Fluke 5522A



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AC Current – Generate continued	<p><i>33 mA to 329.999 mA</i> 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz 10 kHz to 30 kHz</p> <p><i>330 mA to 1.09999 A</i> 10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz</p> <p><i>1.1 A to 2.99999 A</i> 10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz</p> <p><i>3 A to 10.9999 A</i> 45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz</p> <p><i>11 A to 20.5 A</i> 45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz</p>	<p>0.18 % + 20 µA 0.09 % + 20 µA 0.04 % + 20 µA 0.10 % + 50 µA 0.20 % + 100 µA 0.40 % + 200 µA</p> <p>0.18% + 100 µA 0.05% + 100 µA 0.6% + 1 mA 2.5% + 5 mA</p> <p>0.18% + 100 µA 0.06% + 100 µA 0.6% + 1 mA 2.5% + 5 mA</p> <p>0.06% + 2 mA 0.10% + 2 mA 3.0% + 2 mA</p> <p>0.12% + 5 mA 0.15% + 5 mA 3.0% + 5 mA</p>	Fluke 5522A
Clamp Meter Calibrations			5500A/Coil – with 5522A
45 Hz to 64 Hz	<p>10 A to 16.4999 A 16.5 A to 149.999 A 150 A to 1025 A</p>	<p>0.56% + 0.03 A 0.56% + 0.25 A 0.56% + 0.9 A</p>	
65 to 440 Hz	<p>10 A to 16.4999 A 16.5 A to 149.999 A 150 A to 1025 A</p>	<p>1% + 0.03 A 1% + 0.25 A 1% + 0.9 A</p>	
AC Current – Measure	<p><i>5 µA to 100 µA</i> 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz</p> <p><i>100 µA to 1 mA</i> 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz</p>	<p>0.46 % + 0.03 µA 0.17 % + 0.03 µA 0.07 % + 0.03 µA 0.07 % + 0.03 µA</p> <p>0.5 % + 0.2 µA 0.17 % + 0.2 µA 0.07 % + 0.2 µA 0.04 % + 0.2 µA</p>	HP3458A, synchronous sub-sample mode



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AC Current – Measure continued	<p>100 mA to 1 A 10 Hz to 20 Hz 20 Hz to 45 Hz 45 Hz to 100 Hz 100 Hz to 5 kHz</p> <p>1 A to 20 A DC to 1 kHz 1 kHz to 5 kHz</p>	<p>0.46 % + 200 µA 0.18 % + 200 µA 0.09 % + 200 µA 0.12 % + 200 µA</p> <p>0.025% 0.035%</p>	<p>HP3458A, synchronous sub-sample mode</p> <p>Fluke Y5020 with HP3458A</p>
Capacitance - Generate	<p>220.0 pF to 399.9 pF 10 Hz to 10 kHz 0.4 nF to 1.0999 nF 10 Hz to 10 kHz 1.1 nF to 3.2999 nF 10 Hz to 3 kHz 3.3 nF to 10.9999 nF 10 Hz to 1 kHz 11 nF to 32.9999 nF 10 Hz to 1 kHz 33 nF to 109.999 nF 10 Hz to 1 kHz 110 nF to 329.999 nF 10 Hz to 1 kHz 0.33 µF to 1.09999 µF 10 Hz to 600 Hz 1.1 µF to 3.29999 µF 10 Hz to 300 Hz 3.3 µF to 10.9999 µF 10 Hz to 150 Hz 11 µF to 32.9999 µF 10 Hz to 120 Hz 33 µF to 109.999 µF 10 Hz to 80 Hz 110 µF to 329.999 µF 0 Hz to 50 Hz 0.33 mF to 1.09999 mF 0 Hz to 20 Hz 1.1 mF to 3.29999 mF 0 Hz to 6 Hz 3.3 mF 10.9999 mF 0 Hz to 2 Hz 11 mF to 32.9999 mF 0 Hz to 0.6 Hz 33 mF to 110 mF 0 Hz to 0.2 Hz</p>	<p>0.5% +10 pF</p> <p>0.5% + 0.01 nF</p> <p>0.5 % + 0.01 nF</p> <p>0.25 % + 0.01 nF</p> <p>0.25 % + 0.1 nF</p> <p>0.25 % + 0.1 nF</p> <p>0.25 % + 0.3 nF</p> <p>0.25 % + 1 nF</p> <p>0.25 % + 3 nF</p> <p>0.25 % + 10 nF</p> <p>0.40 % + 30 nF</p> <p>0.45 % + 100 nF</p> <p>0.45 % + 300 nF</p> <p>0.45 % + 1 µF</p> <p>0.45 % + 3 µF</p> <p>0.45 % + 10 µF</p> <p>0.75 % + 30 µF</p> <p>1.1 % + 100 µF</p>	<p>Fluke 5522</p>
Oscilloscope Leveled Sine Amplitude 50 kHz Reference	5 mV to 5 V (p-p)	2.0 % + 0.30 mV	Fluke 5522A W/SC1100 (1.1 GHz O-scope Option)



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Oscilloscope continued Leveled Sine Flatness into 50 Ω Square Wave 10 Hz to 10 kHz into 50 Ω Time Marker	50 kHz to 100 MHz 100 MHz to 200 MHz 200 MHz to 600 MHz 600 MHz to 1.1 GHz 1.8 mV to 2.5 V (p-p) 1.8 mV to 55 V (p-p) 5 s to 50 ms	3.7 % + 0.30 mV 4.2 % + 0.30 mV 6.2 % + 0.30 mV 7.2 % + 0.30 mV 3 % + 0.10 mV 3 % + 0.10 mV (25 + t*1000) μs/s Where t is in seconds	Fluke 5522A W/SC1100 (1.1 GHz O-scope Option)
<i>Thermal</i>			
Temperature (T/C) – Simulate			
Type B	600 °C to 799.99 °C 800 °C to 999.99 °C 1000 °C to 1549.99 °C 1550 °C to 1820 °C	0.44 °C 0.34 °C 0.30 °C 0.33 °C	Fluke 5522A
Type C	0 °C to 149.99 °C 150 °C to 649.99 °C 650 °C to 999.99 °C 1000 °C to 1799.99 °C 1800 °C to 2316 °C	0.30 °C 0.26 °C 0.31 °C 0.50 °C 0.84 °C	
Type E	-250 °C to -100.01 °C -100 °C to -25.01 °C -25 °C to 349.99 °C 350 °C to 649.99 °C 650 °C to 1000 °C	0.50 °C .016 °C 0.14 °C 0.16 °C 0.21 °C	
Type J	-210 °C to -100.01 °C -100 °C to -30.01 °C -30 °C to 149.99 °C 150 °C to 759.99 °C 760 °C to 1200 °C	0.27 °C 0.16 °C 0.14 °C 0.17 °C 0.23 °C	
Type K	-200 °C to -100.01 °C -100 °C to -25.01 °C -25 °C to 119.99 °C 120 °C to 999.99 °C 1000 °C to 1372 °C	0.33 °C 0.18 °C 0.16 °C 0.26 °C 0.40 °C	
Type L	-200 °C to -100.01 °C -100 °C to 799.99 °C 800 °C to 900 °C	0.37 °C 0.26 °C 0.17 °C	



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Temperature (T/C) – Simulate continued Type N Type R Type S Type T Type U	-200 °C to -100.01 °C -100 °C to -25.01 °C -25 °C to 119.99 °C 120 °C to 409.99 °C 410 °C to 1300 °C 0 °C to 249.99 °C 250 °C to 399.99 °C 400 °C to 999.99 °C 1000 °C to 1767 °C 0 °C to 249.99 °C 250 °C to 999.99 °C 1000 °C to 1399.99 °C 1400 °C to 1767 °C -250 °C to -150.01 °C -150 °C to -0.01 °C 0 °C to 119.99 °C 120 °C to 400 °C -200 °C to -0.01 °C 0 °C to 600 °C	0.40 °C 0.22 °C 0.19 °C 0.18 °C 0.27 °C 0.57 °C 0.35 °C 0.33 °C 0.40 °C 0.47 °C 0.36 °C 0.37 °C 0.46 °C 0.63 °C 0.24 °C 0.16 °C 0.14 °C 0.56 °C 0.27 °C	Fluke 5522A
Temperature (RTD) - Simulate PT 385, 100 Ω PT3926, 100 Ω PT3916, 100 Ω PT 385, 200 Ω PT 385, 500 Ω PT 385, 1000 Ω	-200 °C to 99.99 °C 100 °C to 629.99 °C 630 °C to 800 °C -200 °C to -0.01 °C 0 °C to 399.99 °C 400 °C to 629.99 °C -200 °C to -0.01 °C 0 °C to 599.99 °C 600 °C to 630 °C -200 °C to -259.99 °C 260 °C to 630 °C -200 °C to 259.99 °C 260 °C to 630 °C -200 °C to 99.99 °C 100 °C to 599.99 °C 600 °C to 630 °C	0.07 °C 0.12 °C 0.23 °C 0.05 °C 0.10 °C 0.12 °C 0.05 °C 0.10 °C 0.23 °C 0.05 °C 0.16 °C 0.06 °C 0.11 °C 0.04 °C 0.07 °C 0.23 °C	Fluke 5522A



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Temperature (RTD) – Simulate continued			
PT 385, 120 Ω	-80 °C to 99.99 °C 100 °C to 260 °C	0.08 °C 0.14 °C	Fluke 5522A
CU 427, 10 Ω	-100 °C to 260 °C	0.3 °C	
Temperature - Measure	-196 °C to 0 °C 0 °C to 100 °C 100 °C to 400 °C	0.004 °C 0.005 °C 0.007 °C	1502A/5628 M2801/IRTD-400
IR Thermometers	0 °C 35 °C 100 °C 200 °C 350 °C 500 °C	0.10 °C 0.22 °C 0.24 °C 0.33 °C 0.53 °C 0.8 °C	Ametek ATC-140A Fluke 4181-156
Thermo Hygrometer	0 °C to 60 °C 0 % R.H to 95 % R.H.	0.07 °C 0.51 % R.H.	Thunder Scientific 2500ST
GE Kaye Validators for Electrical and Temperature Parameters	0 to 10V DC Up to 100 Ω Only at 0 °C	0.003% 0.009% 0.013 °C	Fluke 5522A Kaye X2020 Ical Kaye IRTD 400
<i>Mechanical</i>			
Pressure Calibrators, Transmitters and Gauges	0 to 30 psia	0.05%	Fluke 700PA5
Torque	4 oz.-in. to 250 lb.-in. 10 lb.-ft. to 1000 lb.-ft.	0.31% 0.5%	BMX-40z BMX-25i BMX-250i LTT-100F BMX-1000i

¹'Calibration and Measurement Capability' is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation (at a confidence level of 95% with a coverage factor of 2)

²When CMC is expressed in relative terms, such as percent or another multiplier expressed as a decimal fraction or negative exponent, it is relative to the measurand (instrument reading or indicated output), unless otherwise indicated.