

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017  
AND ANSI/NCSL Z540-1-1994 (R2002)**

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**CALIBRATION**

Valid to: **July 24, 2021**

Certificate Number: **L1145-1**

**Chemical Quantities**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Conductivity – Source	1 $\mu$ S/cm 10 $\mu$ S/cm 100 $\mu$ S/cm 1 000 $\mu$ S/cm 10 mS/cm	0.56 $\mu$ S/cm 0.55 $\mu$ S/cm 2.2 $\mu$ S/cm 7.4 $\mu$ S/cm 0.08 mS/cm	Conductivity Solutions
pH	(4 to 10) pH	0.02 pH	pH Solutions

**Electrical – DC/Low Frequency**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Capacitance - Source (0.05 to 1) kHz (0.05 to 1) kHz (0.05 to 1) kHz (0.05 to 1) kHz (50 to 400) Hz (50 to 200) Hz (50 to 100) Hz	(0.33 to 11) nF (11 to 110) nF (0.11 to 3.3) $\mu$ F (3.3 to 11) $\mu$ F (11 to 33) $\mu$ F (33 to 110) $\mu$ F (0.11 to 1.1) mF	15 mF/F + 0.02 nF 5 mF/F + 0.2 nF 8 mF/F + 0.3 nF 6 mF/F + 20 nF 4 mF/F + 40 nF 8 mF/F + 120 nF 14 mF/F + 270 nF	Multifunction Calibrator and LCR Meter
Capacitance – Measure (0.1 to 1) kHz	(1 to 10 000) nF	0.2% of reading	Digital RLC Meter



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Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
DC Current - Source	(0 to 220) $\mu$ 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 10) A	70 $\mu$ A/A + 0.01 $\mu$ A 69 $\mu$ A/A + 0.01 $\mu$ A 70 $\mu$ A/A + 0.1 $\mu$ A 81 $\mu$ A/A + 1 $\mu$ A 110 $\mu$ A/A + 36 $\mu$ A 0.7mA/A + 0.4 mA	Multifunction Calibrator and DMM
DC Current – Measure	(10 to 100) $\mu$ A (0.1 to 1) mA (1 to 10) mA (10 to 100) mA (0.1 to 1) A	22 $\mu$ A/A + 2 nA 21 $\mu$ A/A + 11 nA 21 $\mu$ A/A + 110 nA 38 $\mu$ A/A + 1 $\mu$ A 122 $\mu$ A/A + 20 $\mu$ A	Multifunction Calibrator and DMM
AC Current - Source	(22 to 220) $\mu$ A (40 to 1 000) Hz (1 to 5) kHz (5 to 10) kHz (0.22 to 2.2) mA (40 to 1 000) Hz (1 to 5) kHz (5 to 10) kHz (2.2 to 22) mA (40 to 1 000) Hz (1 to 5) kHz (5 to 10) kHz (22 to 220) mA (40 to 1 000) Hz (1 to 5) kHz (5 to 10) kHz (0.22 to 2.2) A (40 to 1 000) Hz (1 to 5) kHz (5 to 10) kHz (2.2 to 10) A (40 to 1 000) Hz	480 $\mu$ A/A + 0.03 $\mu$ A 800 $\mu$ A/A + 0.06 $\mu$ A 2 mA/A + 0.1 $\mu$ A 180 $\mu$ A/A + 0.07 $\mu$ A 814 $\mu$ A/A + 0.6 $\mu$ A 2 mA/A + 1.2 $\mu$ A 500 $\mu$ A/A + 0.43 $\mu$ A 815 $\mu$ A/A + 6 $\mu$ A 2 mA/A + 12 $\mu$ A 240 $\mu$ A/A + 4 $\mu$ A 811 $\mu$ A/A + 60 $\mu$ A 2 mA/A + 120 $\mu$ A 900 $\mu$ A/A + 50 $\mu$ A 1 mA/A + 110 $\mu$ A 1.2 mA/A + 230 $\mu$ A 2.2 mA/A	Multifunction Calibrator
AC Current – Measure	(10 to 100) $\mu$ A (20 to 45) Hz (45 to 1 000) kHz (0.1 to 1) mA (20 to 45) Hz (45 to 1 000) Hz	5 mA/A + 35 nA 715 $\mu$ A/A + 35 nA 5 mA/A + 0.3 $\mu$ A 0.4 mA/A + 0.2 $\mu$ A	8 ½ Digit Multimeter



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**Electrical – DC/Low Frequency**

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AC Current – Measure	(1 to 10) mA		8 ½ Digit Multimeter			
	(20 to 45) Hz	5 mA/A + 2 µA				
	(45 to 1 000) Hz	0.4 mA/A + 2 µA				
	(10 to 100) mA					
	(10 to 20) Hz	0.41 mA/A + 22 µA				
	(45 to 1 000) Hz	0.4 mA/A + 20 µA				
Inductance – Measure 1 kHz	1 mH to 1 H	300 mH/H	Digital RLC Meter			
				100 mH	0.12 mH	Digital RLC Meter and Standard Inductor
1 Ω, 1.9 Ω	260 µΩ					
10 Ω	400 µΩ					
19 Ω	720 µΩ					
100 Ω	2.3 mΩ					
190 Ω	4.8 mΩ					
1 kΩ	17 mΩ					
1.9 kΩ	38 mΩ					
10 kΩ	0.18 Ω					
19 kΩ	0.43 Ω					
100 kΩ	1.6 Ω					
190 kΩ	4 Ω					
1 MΩ	31 Ω					
1.9 MΩ	54 Ω					
10 MΩ	540 Ω					
19 MΩ	1.2 kΩ					
100 MΩ	15 kΩ					
1 GΩ	10 MΩ					
10 GΩ	0.1 GΩ					
100 GΩ	2.4 GΩ					
Resistance –Measure	(0.1 to 10) Ω	18 µΩ/Ω + 62 µΩ	8 ½ Digit Multimeter			
	(10 to 100) Ω	16 µΩ/Ω + 570 µΩ				
	(0.1 to 1) kΩ	14 µΩ/Ω + 520 µΩ				
	(1 to 10) kΩ	13 µΩ/Ω + 5.4 µΩ				
	(10 to 100) kΩ	14 µΩ/Ω + 56 mΩ				

**Electrical – DC/Low Frequency**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Resistance – Measure	(0.1 to 1) MΩ (1 to 10) MΩ (10 to 100) MΩ	20 μΩ/Ω + 2.2 Ω 61 μΩ/Ω + 110 Ω 600 μΩ/Ω + 2.1 kΩ	8 ½ Digit Multimeter
Resistance – RTD Pt 385 Simulate	(-200 to 0) °C (0 to 630) °C (630 to 800) °C	0.08 °C 0.08 °C 0.27 °C	Multifunction Calibrator
DC Voltage – Source	(0 to 220) mV (0.22 to 2.2) V (2.2 to 22) V (22 to 220) V (220 to 1 100) V	10 μV/V + 1 μV 10 μV/V + 1.4 μV 10 μV/V + 9 μV 11 μV/V + 100 μV 13 μV/V + 700 μV	Multifunction Calibrator and DMM
DC Voltage – Measure	(0.1 to 100) mV (0.1 to 1) V (1 to 10) V (10 to 100) V (100 to 1 100) V	11 μV/V + 0.6 μV 10 μV/V + 0.5 μV 9 μV/V + 2 μV 13 μV/V + 55 μV 12 μV/V + 420 μV	8½ Digit Multimeter
DC High Voltage – Measure	(1.1 to 10) kV	0.4V/kV + 1V	High Voltage Meter
AC Voltage – Source	(0.1 to 2.2) mV (10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 100) kHz (100 to 300) kHz (300 to 500) kHz (0.5 to 1) MHz (2.2 to 22) mV (10 to 20) Hz (20 H to 40) Hz 40 Hz to 20 kHz (20 to 100) kHz (100 to 300) kHz (300 to 500) kHz (0.5 to 1) MHz	700 μV/V + 6 μV 260 μV/V + 6 μV 140 μV/V + 6 μV 420 μV/V + 6 μV 1.1 mV/V + 9 μV 1.5 mV/V + 18 μV 2.2 mV/V + 35 μV 700 μV/V + 7 μV 280 μV/V + 7 μV 150 μV/V + 7 μV 475 μV/V + 7 μV 1 mV/V + 9 μV 1.5 mV/V + 17 μV 2 mV/V + 35 μV	Multifunction Calibrator and DMM



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Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Voltage – Source	(22 to 220) mV		Multifunction Calibrator and DMM
	(10 to 20) Hz	700 $\mu\text{V}/\text{V}$ + 19 $\mu\text{V}$	
	(20 to 40) Hz	290 $\mu\text{V}/\text{V}$ + 11 $\mu\text{V}$	
	40 Hz to 20 kHz	290 $\mu\text{V}/\text{V}$ + 11 $\mu\text{V}$	
	(20 to 100) kHz	150 $\mu\text{V}/\text{V}$ + 11 $\mu\text{V}$	
	(100 to 300) kHz	1 mV/V + 30 $\mu\text{V}$	
	(300 to 500) kHz	2 mV/V + 46 $\mu\text{V}$	
	(0.5 to 1) MHz	2 mV/V + 60 $\mu\text{V}$	
	(0.22 to 2.2) V		
	(10 to 20) Hz	700 $\mu\text{V}/\text{V}$ + 120 $\mu\text{V}$	
	(20 to 40) Hz	210 $\mu\text{V}/\text{V}$ + 35 $\mu\text{V}$	
	40 Hz to 20 kHz	110 $\mu\text{V}/\text{V}$ + 6 $\mu\text{V}$	
	(20 to 100) kHz	170 $\mu\text{V}/\text{V}$ + 22 $\mu\text{V}$	
	(100 to 300) kHz	325 $\mu\text{V}/\text{V}$ + 100 $\mu\text{V}$	
	(300 to 500) kHz	560 $\mu\text{V}/\text{V}$ + 170 $\mu\text{V}$	
	(0.5 to 1) MHz	3 mV/V + 1.1 mV	
	(2.2 to 22) V		
	(10 to 20) Hz	700 $\mu\text{V}/\text{V}$ + 1 mV	
	(20 to 40) Hz	210 $\mu\text{V}/\text{V}$ + 340 $\mu\text{V}$	
	40 Hz to 20 kHz	100 $\mu\text{V}/\text{V}$ + 80 $\mu\text{V}$	
(20 to 100) kHz	160 $\mu\text{V}/\text{V}$ + 230 $\mu\text{V}$		
(100 to 300) kHz	330 $\mu\text{V}/\text{V}$ + 1 mV		
(300 to 500) kHz	700 $\mu\text{V}/\text{V}$ + 2 mV		
(0.5 to 1) MHz	1.6 mV/V + 6 mV		
(22 to 220) V			
(10 to 40) Hz	700 $\mu\text{V}/\text{V}$ + 12 mV		
40 Hz to 20 kHz	105 $\mu\text{V}/\text{V}$ + 1.2 mV		
(220 to 1 100) V			
(45 to 50) Hz	600 $\mu\text{V}/\text{V}$ + 70 mV		
(50 to 1 000) Hz	105 $\mu\text{V}/\text{V}$ + 5 mV		
AC Voltage – Measure	(0.1 to 10) mV		8½ Digit Multimeter
	40 Hz to 1 kHz	335 $\mu\text{V}/\text{V}$ + 6.6 $\mu\text{V}$	
	(1 to 20) kHz	235 $\mu\text{V}/\text{V}$ + 6 $\mu\text{V}$	
	(20 to 50) kHz	360 $\mu\text{V}/\text{V}$ + 6 $\mu\text{V}$	
	(50 to 100) kHz	5.6 mV/V + 3.6 $\mu\text{V}$	
(100 to 300) kHz	46 mV/V + 3.9 $\mu\text{V}$		



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Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Voltage – Measure	(10 to 100) mV		8½ Digit Multimeter
	40 Hz to 1 kHz	141 $\mu\text{V}/\text{V} + 9 \mu\text{V}$	
	(1 to 20) kHz	140 $\mu\text{V}/\text{V} + 8.5 \mu\text{V}$	
	(20 to 50) kHz	180 $\mu\text{V}/\text{V} + 9.2 \mu\text{V}$	
	(50 to 100) kHz	350 $\mu\text{V}/\text{V} + 7.5 \mu\text{V}$	
	(100 to 300) kHz	920 $\mu\text{V}/\text{V} + 5.8 \mu\text{V}$	
	(0.3 to 1) MHz	3 mV/V + 15 $\mu\text{V}$	
	(1 to 2) MHz	11 mV/V + 64 $\mu\text{V}$	
	(0.1 to 1) V		
	40 Hz to 1 kHz	100 $\mu\text{V}/\text{V} + 48 \mu\text{V}$	
	(1 to 20) kHz	95 $\mu\text{V}/\text{V} + 24 \mu\text{V}$	
	(20 to 50) kHz	170 $\mu\text{V}/\text{V} + 24 \mu\text{V}$	
	(50 to 100) kHz	360 $\mu\text{V}/\text{V} + 26 \mu\text{V}$	
	(100 to 300) kHz	930 $\mu\text{V}/\text{V} + 25 \mu\text{V}$	
	(0.3 to 1) MHz	3 mV/V + 130 $\mu\text{V}$	
	(1 to 2) MHz	12 mV/V + 180 $\mu\text{V}$	
	(1 to 10) V		
	40 Hz to 1 kHz	100 $\mu\text{V}/\text{V} + 480 \mu\text{V}$	
	(1 to 20) kHz	95 $\mu\text{V}/\text{V} + 240 \mu\text{V}$	
	(20 to 50) kHz	170 $\mu\text{V}/\text{V} + 240 \mu\text{V}$	
(50 to 100) kHz	360 $\mu\text{V}/\text{V} + 260 \mu\text{V}$		
(100 to 300) kHz	1 mV/V + 250 $\mu\text{V}$		
(0.3 to 1) MHz	3 mV/V + 1.3 mV		
(1 to 2) MHz	11 mV/V + 2.2 mV		
(10 to 100) V			
40 Hz to 1 kHz	0.25 mV/V + 5 mV		
(1 to 20) kHz	0.24 mV/V + 2.4 mV		
(20 to 50) kHz	0.24 mV/V + 2.5 mV		
(50 to 100) kHz	0.42 mV/V + 2.3 mV		
(100 to 300) kHz	1.4 mV/V + 2.3 mV		
(100 to 1 000) V			
(40 to 1 000) Hz	0.5 mV/V + 25 mV		
AC High Voltage – Measure	(1 to 10) kV 60 Hz	1.5 V/kV + 0.3V	High Voltage Meter
Electrical Simulation of Thermocouple Indicating Devices – Measure/Source	Type E (-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1 000) °C	0.58 °C 0.19 °C 0.18 °C 0.2 °C 0.25 °C	Multifunction Calibrator



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**Electrical – DC/Low Frequency**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Simulation of Thermocouple Indicating Devices – Measure/Source	Type J (-210 to -100) °C	0.31 °C	Multifunction Calibrator
	(-100 to -30) °C	0.19 °C	
	(-30 to 150) °C	0.17 °C	
	(150 to 760) °C	0.2 °C	
	(760 to 1 200) °C	0.27 °C	
	Type K (-200 to -100) °C	0.38 °C	
	(-100 to 120) °C	0.19 °C	
	(120 to 1 000) °C	0.3 °C	
	(1 000 to 1 372) °C	0.46 °C	
	Type R (0 to 250) °C	0.66 °C	
(250 to 1 000) °C	0.41 °C		
(1 000 to 1 767) °C	0.47 °C		
Type T (-250 to -150) °C	0.73 °C		
(-150 to 0) °C	0.28 °C		
(0 to 400) °C	0.19 °C		
Oscilloscope – Time Markers (into 50 Ω)	2 ns to 1 μs 2 μs to 5 s	12 ms/s 14 ms/s	Fluke 5500A/300 Multifunction Calibrator
Oscilloscope – DC Voltage 50 Ω 1 MΩ	(0 to 2.2) V (0 to 33) V	3 mV/V + 0.12 mV 3 mV/V + 0.12 mV	
Oscilloscope – Square Wave 50 Ω 1 MΩ	1.8 mV p-p to 2.2 V p-p 1.8 mV p-p to 105 Vp-p	4 mV/V + 0.17 mV 4 mV/V + 0.17 mV	
Oscilloscope – Leveled Sine Wave Amplitude 50 kHz (reference) 50 kHz to 100 MHz (100 to 300) MHz	5 mV to 5.5 V 5 mV to 5.5 V 5 mV to 3 V	23 mV/V + 0.24 mV 41 mV/V + 0.35 mV 50 mV + 0.35 mV	
Oscilloscope – Leveled Sine Wave Flatness 50 kHz to 100 MHz (100 to 300) MHz	5 mV to 5.5 V 5 mV to 3 V	18 mV/V + 0.13 mV 27 mV/V + 0.16 mV	
Oscilloscope – Leveled Sine Wave Frequency	50 kHz to 300 MHz (0.3 to 1) GHz	6 kHz/MHz 24 kHz/MHz	

### Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Oscilloscope – Edge Risetime	1 kHz to 1 MHz	1.2 ns	Fluke 5500A/300 Leveled Sine Wave Generator

### Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Cylindrical Plugs <sup>2</sup>	(0.01 to 1) in	(23 + 3L) $\mu$ in	Laser Micrometer
Indicators <sup>1,2</sup>	(0 to 4) in	(56 + 7L) $\mu$ in	Gage Blocks
Micrometers – OD <sup>1,2</sup>	(0 to 1) in (1 to 8) in	(52 + 2.5L) $\mu$ in (46 + 11L) $\mu$ in	Gage Blocks
Height Gages <sup>1,2</sup>	(0 to 24) in	(770 + 7L) $\mu$ in	Gage Blocks, End Rods
Calipers <sup>1,2</sup>	(0 to 24) in	(420 + 13L) $\mu$ in	Gage Blocks, End Rods
Steel Rules	(0 to 36) in	0.015 in	Master Steel Rule

### Mass and Mass Related

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Variable Area Flowmeter	(0 to 110) scfh	3.4 scfh	Master Digital Flowmeter
Force Gauges (Tension Only)	(10 to 1 000) g (1 to 10) kg	0.000 07 g/g + 0.09 g 1.2 g	ASTM Class 1 & 2 weights
	(0.5 to 100) lb (50 to 400) lb	0.000 06 lb/lb + 0.013 lb 0.12 lb	NIST Class S, Q & F weights
Pressure – Source	(0.01 to 1) inH <sub>2</sub> O (1 to 10) inH <sub>2</sub> O (10 to 300) inH <sub>2</sub> O (300 to 650) inH <sub>2</sub> O	0.002 inH <sub>2</sub> O 0.03 inH <sub>2</sub> O 0.09 inH <sub>2</sub> O 0.2 inH <sub>2</sub> O	Pressure Module / Dead Weight Tester
	(10 to 1 000) psig	0.000 3 psi/psi + 0.005 psi	
Pressure – Measure/Source	(1 000 to 2 000) psig (2 000 to 5 000) psig (5 000 to 10 000) psig	2.4 psi 4.3 psi 6.8 psi	Digital Pressure Calibrator



### Mass and Mass Related

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Vacuum – Measure/Source	(-29.9 to 0) inHg	0.03 inHg	Digital Vacuum Calibrator
Scales and Balances (0.01 mg Resolution) (0.01 mg Resolution) (1 mg Resolution) (1 mg Resolution)	(0 to 100) g (100 to 200) g (200 to 2 000) g (2 to 5) kg	0.3 mg 0.6 mg 6 mg 14 mg	ASTM Class 1, Class 2 Weights
Scales and Balances (0.001 lb Resolution) (0.1 lb Resolution) (1 lb Resolution)	(0 to 100) lb (0 to 820) lb (0 to 3 280) lb	0.001 lb + 0.000 1 lb/lb 0.088 lb + 0.000 2 lb/lb 2 lb	NIST Class F Weights
Torque Transducer	(1 to 20) lbf·in (20 to 3 000) lbf·in	0.005 lbf·in + 0.000 5 lbf·in / lbf·in 0.017 lbf·in + 0.000 7 lbf·in / lbf·in	Torque Arm & Weights
Torque Wrench	(1 to 5) lbf·in (5 to 3 000) lbf·in	0.005 lbf·in/ lbf·in + 0.005 lbf·in 0.006 lbf·in/ lbf·in + 0.002 5 lbf·in	Digital Torque Calibrator

### Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Humidity – Measure <sup>1</sup>	(0 to 90) %RH (90 to 95) %RH	1.4 %RH 2.2 %RH	Comparison to Vaisala HM70
Humidity – Source <sup>1</sup>	(0 to 90) %RH (90 to 95) %RH	1.4 % RH 2.2 % RH	Comparison to Vaisala HM70
Temperature – Measure/Source	(-35 to 400) °C	0.04 °C	7 ½ Digit Multimeter with SPRT
	(400 to 1 000) °C	1.7 °C	Thermocouple Probe w/ Digital Thermometer
Infrared Thermometers	35 °C 100 °C 200 °C 350 °C 500 °C	0.5 °C 0.9 °C 1.5 °C 2.4 °C 3.5 °C	Fluke 4181 Infrared Calibrator (flat plate) $\epsilon = (0.9 \text{ to } 1.0)$ , $\lambda = (8 \text{ to } 14) \mu\text{m}$

## Time and Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Frequency Measure <sup>2</sup>	1 mHz to 1.3 GHz	$9 \times 10^{-7} \cdot f$	Electronic Counter
Frequency Source <sup>2</sup>	1 mHz to 1.05 GHz	$9 \times 10^{-7} \cdot f$	Frequencies generated by Signal Generator/Level Generator monitored by an Electronic Counter
Tachometer – Contact <sup>1</sup>	(300 to 1 800) rpm	0.2 rpm	Tachometer Calibrator
Tachometer – Non-Contact <sup>1</sup>	(10 to 100 000) rpm	0.03 rpm	Function Generator
Stopwatch	Up to 24 hr	0.03 sec/day	Electronic Counter
Process Timer <sup>1</sup>	Up to 24 hr	0.6 sec/day	Stopwatch

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. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2.  $L$  = length in inches,  $f$  = frequency in Hz
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L1145-1.



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