



Accreditation Scope

Middle East Calibration Lab L.L.C, NAL 110
Calibration Laboratory, (ISO/IEC 17025:2017)

Industrial Area-6, Sharjah, UAE

Issue Date: 30-12-2022
Issue No: 05

Expiry Date: 29-04-2023

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Mass	Non-Automatic Weighing Instruments / Scales	1 mg to 50 g	0.02 mg	Internal Procedures: MEM-WP-01:2019 Based on EURAMET Calibration Guide No.18 Version 4.0	S
		> 50 g to 1 kg	$0.4 \times 10^{-6} \times l$		
		(> 1 to 40) kg	$1 \times 10^{-6} \times l$		
		(> 40 to 1000) kg	$86 \times 10^{-6} \times l$		
		(> 1 to 2) Ton	$0.17 \times 10^{-3} \times l$		
		(> 2 to 10) Ton	$0.25 \times 10^{-3} \times l$		
	Pallet Truck / Pallet Scale	(0 to 1000) kg	$93 \times 10^{-6} \times l$	Internal Procedures: MEM-WP-02: 2019 Based on EURAMET Calibration Guide No.18 Version 4.0	S
		(> 1 to 2) Ton	$0.17 \times 10^{-3} \times l$		
		(> 2 to 3) Ton	$0.24 \times 10^{-3} \times l$		
	Digital Hanging / Crane Scale	(0 to 30) kg	$34 \times 10^{-6} \times l$	Internal Procedures: MEM-WP-03: 2019 Based on EURAMET Calibration Guide No.18 Version 4.0	S
		(> 30 to 500) kg	$86 \times 10^{-6} \times l$		
		(> 0.5 to 1) Ton	$93 \times 10^{-6} \times l$		
		(> 1 to 2) Ton	$0.17 \times 10^{-3} \times l$		
		(> 2 to 3) Ton	$0.24 \times 10^{-3} \times l$		
	Tank Scale / Batching Plants	(20 to 30) kg	$34 \times 10^{-6} \times l$	Internal Procedures: MEM-WP-04: 2019 Based on NIST Hand Book NH- 44& ASTM C94/C94M	S
		(> 30 to 1000) kg	$86 \times 10^{-6} \times l$		
		(> 1 to 2) Ton	$0.17 \times 10^{-3} \times l$		
		(> 2 to 5) Ton	$0.24 \times 10^{-3} \times l$		
		(> 5 to 10) Ton	$0.25 \times 10^{-3} \times l$		



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Mass	Conventional Mass F1 Class	200 mg	0.02 mg	Internal Procedures: MEM-WP-18A: 2019 Based on OIML R111-1-2004	P
		500 mg	0.02 mg		
		1g	0.03 mg		
		2 g	0.04 mg		
		5 g	0.05 mg		
		10 g	0.06 mg		
		20 g	0.08 mg		
		50 g	0.10 mg		
		100 g	0.16 mg		
	200 g	0.30 mg	Calibration Methods: OIML R111-1-2004 and Internal Procedures MEM-WP- 18A: 2019 Reference standard E2 & F1, Calibration of F2 up to 200 g, Calibration of M1 up to 20 kg	P	
	Conventional Mass F2 & Lower Class	(1 to 10) mg			0.02 mg
		20 mg			0.03 mg
		50 mg			0.04 mg
		100 mg			0.05 mg
		200 mg			0.06 mg
		500 mg			0.08 mg
		1 g			0.10 mg
		2 g			0.12 mg
		5 g	0.16 mg		
	10 g	0.2 mg	Calibration Methods: OIML R111-1-2004 and Internal Procedures MEM-WP- 18A: 2019 Reference standard E2 & F1, Calibration of F2 up to 200 g, Calibration of M1 up to 20 kg	P	
	Conventional Mass F2 & Lower Class	20 g			0.25 mg
		50 g			0.3 mg
		100 g			0.5 mg
		200 g			1.0 mg
		500 g			10 mg
		1 kg			10 mg
		2 kg			30 mg
		5 kg	80 mg		
10 kg	0.1 g				
20 kg	0.3 g				



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Light	Lux Meters	(20 to 50000) lux	1.5 % x l	Calibration Methods: In house Procedure MEM-WP- 10A:2019	P
Sound	Sound Level Meters	94 dB, 114 dB	0.4 dB	Calibration Methods: In house Procedure MEM-WP- 11A:2019	P
Gas Flow	Rotameters / Air Flow Meters	30 L/min	0.42 % x l	Calibration Methods: In house Procedure MEM-WP- 12A:2019	P/S
Air Velocity	Anemometers / Air Velocity Meters	(0 to 0.6) m/s	0.09 m/s	Calibration Methods: In house Procedure MEM-WP- 13A:2019	P
		(> 0.6 to 6) m/s	0.58 m/s		
		(> 6 to 10) m/s	1.2 m/s		
		(10 to 15) m/s	1.8 m/s		
		(15 to 20) m/s	2.3 m/s		
Time	Timers / Stop Watches	0 to 30 min	0.6 s	Calibration Methods: In house Procedure MEM-WP- 14A:2019,	P
		> 30 min to 24 h	1.1 s		
Speed	rpm Meters/ speed Indicators (Contact mode)	0 to 10 rpm	0.92 rpm	Calibration Methods: In house Procedure MEM-WP- 15A:2019	P
		> 10 to 1000 rpm	2.0 rpm		
		> 1000 to 10000 rpm	7.4 rpm		
	rpm Meters/ speed Indicators (Non-Contact mode)	0 to 10 rpm	0.92 rpm	Calibration Methods: In house Procedure MEM-WP- 15A:2019	P
		> 10 to 1000 rpm	2.0 rpm		
		> 1000 to 10000 rpm	7.4 rpm		
		> 10000 to 30000 rpm	21 rpm		
		> 30000 to 100000 rpm	35 rpm		
pH	pH Meter	(4, 7, 10) pH	0.021 pH	In house Procedure: MEM-WP-19A:2019	P
Electrical Conductivity (EC)	Conductivity Meter	(0 to 200) mS/cm	$5.1 \times 10^{-3} \times C$	In house Procedure: MEM-WP-19B:2019	P
Total Dissolved Solids (TDS)	TDS Meter	$(0 \text{ to } 99.9) \times 10^{-12}$	$3.4 \times 10^{-3} \times \text{TDS}$	In house Procedure: MEM-WP-19B:2019	P



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Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Dimensional	Surface Plate	Up to (2.4 x 1.6) m	4 µm	Calibration Methods: In house and Internal Procedures MEM-WP-06:2019	S
	Vernier / Digital Caliper	(0 to 300) mm	0.02 mm	Calibration Methods: In house Procedures MEM-WP-09B:2019	P
		(> 300 to 600) mm	0.05 mm		
		(> 0.6 to 1) m	0.08 mm		
		(> 1 to 1.5) m	0.1 mm		
		(> 1 to 2.1) m	0.15 mm		
	Outside Micrometers / (Analog & Digital)	(0 to 200) mm	2 µm	Calibration Methods: In house Procedures MEM-WP-09A:2019	P
		(> 200 to 300) mm	3 µm		
		(> 300 to 600) mm	5 µm		
		(> 0.6 to 1) m	7 µm		
		(> 1 to 1.5) m	11 µm		
	Height Gauges	(0 to 300) mm	7 µm	Calibration Methods: In house Procedures MEM-WP-09J:2019	P
		(> 300 to 600) mm	8 µm		
		(> 0.6 to 1) m	10 µm		
		(> 1 to 1.5) m	15 µm		
		(> 1 to 2.1) m	20 µm		
	Feeler Gauges	(0 to 2) mm	2.8 µm	Calibration Methods: In house Procedures MEM-WP-09D:2019	P
	Protractor / Combination Square set / Angle Gauges	0° to 90°	0.03°	Calibration Methods: In house Procedures MEM-WP-09F:2019	P
		> 90° to 180°	0.05°		
	Setting rods	(0 to 300) mm	3 µm	Calibration Methods: In house Procedures MEM-WP-09K:2019	P
(> 300 to 600) mm		5 µm			
(> 0.6 to 1) m		7 µm			



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Dimensional	Dial & Digital Indicators / LVDT	(0 to 10) mm	3 µm	Calibration Methods: In house Procedures MEM-WP-09C:2019	P
		(> 10 to 50) mm	4 µm		
		(> 50 to 100) mm	5 µm		
	Thickness Gauges	(0 to 25) mm	3 µm	Calibration Methods: In house Procedures MEM-WP-09E:2019	P
	Depth Gauges / Depth Micrometers	(0 to 300) mm	7 µm	Calibration Methods: In house Procedures MEM-WP-09M:2019	P
		(> 300 to 600) mm	8 µm		
		(> 0.6 to 1) m	10 µm		
		(> 1 to 1.5) m	15 µm		
	Steel Ruler	(0 to 2000) mm	0.3 mm	Calibration Methods: In house Procedures MEM-WP-09I:2019	P
	Measuring Tape	(0 to 2.1) m	0.3 mm	Calibration Methods: In house Procedures MEM-WP-09H:2019	P
		(> 2.1 to 4) m	0.6 mm		
		(> 4 to 6.1) m	0.9 mm		
		(> 6.1 to 8) m	1.2 mm		
		(> 8 to 10.1) m	1.5 mm		
		(> 10.1 to 12) m	1.8 mm		
		(> 12 to 14.1) m	2.1 mm		
		(> 14.1 to 16) m	2.4 mm		
(> 16 to 18.1) m		2.7 mm			
(> 18.1 to 20) m		3.0 mm			
(> 20 to 22.1) m		3.3 mm			
(> 22.1 to 24) m		3.6 mm			
Bore Gauges (Two Point)	(0 to 50) mm	5 µm	Calibration Methods: In house Procedures MEM-WP-06B:2019	P	



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Temperature	Digital & Dial Thermometer / Temperature sensor with indicator	(-30 to 70) °C	0.3 °C	Calibration Methods: In house Procedures MEM-WP- 05A:2019	P/S
		(50 to 200) °C	0.4 °C		
		(200 to 400) °C	0.63 °C		
	Fridge/Freezer thermometers / Temp. Data loggers / Max Min Thermometer	(-30 to 70) °C	0.3 °C	Calibration Methods: In house Procedures MEM-WP- 05A:2019.	P
	Oven, Incubator, Chiller, Freezer, etc	(-20 to 50) °C	0.49 °C	Calibration Methods: In house Procedures MEM-WP- 05B:2019	P/S
		(> 50 to 150) °C	0.6 °C		
		(> 150 to 250) °C	0.97 °C		
	Water Bath / Oil Bath	(-20 to 50) °C	0.15 °C	Calibration Methods: In house Procedures MEM-WP- 05B:2019	P/S
		(> 50 to 150) °C	0.41 °C		
		(> 150 to 250) °C	0.67 °C		
Autoclave	(30 to 140) °C	0.12 °C	Calibration Methods: In house Procedures MEM-WP- 05E:2019	P/S	
Temperature Chart Recorder	(-30 to 70) °C	0.16 °C	Calibration Methods: In house Procedures MEM-WP- 05A:2019	P/S	
Furnace	(0 to 500) °C	1.2 °C	Calibration Methods: In house Procedures MEM-WP- 05d:2019	P/S	
	(> 500 to 800) °C	2.9 °C			
	(> 800 to 1100) °C	4.7 °C			
Humidity	Humidity Chambers (Single point)	(20 to 90) %RH	2 %RH	Calibration Methods: In house Procedures MEM-WP- 05B:2019	P/S
	Hygrometers	(20 to 90) %RH	3 %RH	Calibration Methods: In house Procedures MEM-WP- 05C:2019	P



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Pressure	Pressure Gauges / Differential pressure gauges / Switches / Pressure Chart Recorders	(0 to 1) bar	6 mbar	Calibration Methods: In house Procedure MEM-WP- 07A:2019	P/S
		(> 1 to 40) bar	18 mbar		
		(> 40 to 600) bar	0.47 bar		
		(600 to 1000) bar	0.78 bar		
		(> 1000 to 1400) bar	0.97 bar		
	Vacuum Gauges	(-0.9 to 0) bar	5 mbar	Calibration Methods: In house Procedure MEM-WP- 07A:2019	P/S
Volume	Piston-operated volumetric apparatus (Pipettes, Dispensers)	(10 ≤ V ≤ 100) µl	0.28 µl	Calibration Methods: ISO 8655-6:2002, ISO/TR 20461:2000 and Internal Procedure MEM-WP- 17A:2019	P
		(100 ≤ V ≤ 200) µl	0.47 µl		
		(200 ≤ V ≤ 1000) µl	0.57 µl		
		(1000 ≤ V ≤ 2000) µl	0.73 µl		
		(2 ≤ V ≤ 5) ml	1.6 µl		
		(5 ≤ V ≤ 10) ml	2.1 µl		
	Volumetric Apparatus One mark / Graduated Pipettes, Buretes)	(500 ≤ V ≤ 2000) µl	0.033 ml	Calibration Method: In-house Procedure MEM-WP- 17B:2019	P
		(2 ≤ V ≤ 10) ml	0.038 ml		
		(10 ≤ V ≤ 50) ml	0.07 ml		
		(50 ≤ V ≤ 150) ml	0.18 ml		
	Volumetric Apparatus One mark-Cylinder, Beaker, Flask	(10 ≤ V ≤ 200) ml	0.3 % × l	Calibration Method: ISO 8655:2002, ISO 4787:2010, ISO/TR 20461:2002 and Internal Procedures MEM-WP- 17B:2019	P
		(200 ≤ V ≤ 5000) ml	0.2% × l		
	Volumetric Apparatus Graduated Cylinder, Beaker, Flask	(10 ≤ V ≤ 100) ml	0.3 % × l	Calibration Method: ISO 8655:2002, ISO4787:2010, ISO/TR 20461:2002 and Internal Procedures MEM-WP- 17B:2019	P
		(100 ≤ V ≤ 5000) ml	0.2 % × l		



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Volume	Specific Gravity / Density Containers / Volumetric Prover Tanks	(10 ≤ V ≤ 100) ml	0.3 % × l	Calibration Method: ISO 8655:2002, ISO4787:2010, ISO/TR 20461:2002 and Internal Procedures MEM-WP- 17B:2019	P
		(100 ≤ V ≤ 5000) ml	0.2 % × l		
	Volumetric Prover Tanks	(5 ≤ V ≤ 20) l	0.2 % × l		
Force	Compression Machine / UTM Machine (Compression Mode)	200 kN to 3 MN	0.5 % × l	Calibration Method: In house Procedures MEM-WP- 16A:2019	S
	Force Gauges Tensile load cell With Indicator	(0 to 1) kN	0.012 %	Calibration Method: In house Procedures MEM-WP- 16B:2019	P
Electrical	High Voltage (AC, 50Hz) (Source)	(0 to 20) kV	0.5 kV	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		(> 20 to 50) kV	1.3 kV		
		(> 50 to 80) kV	2.0 kV		
		(> 80 to 100) kV	2.5 kV		
	High Voltage (DC source)	(0 to 20) kV	0.5 kV	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		(> 20 to 50) kV	1.3 kV		
		(> 50 to 80) kV	2.0 kV		
		(> 80 to 100) kV	2.5 kV		



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Electrical	AC Voltage, 45Hz to 10 kHz (Measurement)	(1 to 32.999) mV	0.06 mV	Calibration Methods: In house Procedures MEM-WP- 08A:2019.	P
		(33 to 329.999) mV	0.14 mV		
		(0.33 to 3.29999) V	1.3 mV		
		(3.3 to 32.9999) V	13 mV		
		(33 to 329.999) V	19 mV		
		(330 to 1020) V	61 mV		
	DC Voltage, (Measurement)	(0 to 330) mV	26 µV	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(> 0.33 to 3.3) V	0.2 mV		
		(> 3.3 to 33) V	2 mV		
		(> 33 to 330) V	20 mV		
		(> 330 to 1020) V	70 mV		
	AC Current, 45Hz to 1 kHz (Measurement)	(29 to 329.999) µA	0.59 µA	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(0.33 to 3.29999) mA	4 µA		
		(3.3 to 32.9999) mA	0.02 mA		
		(33 to 329.999) mA	0.18 mA		
		(0.33 to 1.09999) A	0.8 mA		
	AC Current, 45Hz to 100 Hz (Measurement)	(3 to 10.9999) A	0.01 A	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(11 to 20.5) A	0.04 A		
	AC Current (Clamp) 45Hz to 65 Hz (Measurement)	(10 to 16.499) A	0.07 A	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(16.5 to 149.99) A	0.62 A		
(150 A to 300) A		1.7 A			
(300 A to 600) A		2.9 A			
(600 A to 1025) A		4.4 A			



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Electrical	AC Current, 65Hz to 440 Hz (Measurement)	(10 to 16.499) A	0.16 A	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(16.5 to 149.99) A	1.5 A		
		(150 A to 300) A	3.2 A		
		(300 A to 600) A	6.0 A		
		(600 A to 1025) A	10.0 A		
	DC Current, (Measurement)	(0 to 329.999) μ A	0.08 μ A	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(0.3 to 3.29999) mA	0.44 μ A		
		(3.3 to 32.9999) mA	4.2 μ A		
		(33 to 329.999) mA	0.042 mA		
		(0.33 to 1.09999) A	0.54 mA		
	DC Current, (Measurement)	(1.1 to 2.99999) A	1.2 mA	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(3 to 20) A	16 mA		
		(10 to 16.499) A	0.063 A		
		(16.5 to 149.99) A	0.57 A		
		(150 A to 300) A	1.3 A		
		(300 A to 600) A	2.5 A		
	Resistance (Measurement)	(0 to 10.999) Ω	0.013 Ω	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(11 to 32.999) Ω	0.022 Ω		
		(33 to 109.99) Ω	0.029 Ω		
		(110 to 329.999) Ω	0.057 Ω		
		(0.33 to 1.09999) k Ω	0.14 Ω		
		(1.1 to 3.29999) k Ω	0.58 Ω		
		(3.3 to 10.9999) k Ω	1.3 Ω		
		(11 to 32.9999) k Ω	4.6 Ω		
		(33 to 109.999) k Ω	15 Ω		
	(110 to 329.999) k Ω	57 Ω			



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Electrical	Resistance (Measurement)	(0.33 to 1.09999) MΩ	200 Ω	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(1.1 to 3.29999) MΩ	800 Ω		
		(3.3 to 10.9999) MΩ	8 kΩ		
		(11 to 32.9999) MΩ	0.04 MΩ		
		(33 to 109.999) MΩ	0.64 MΩ		
		(110 to 329.999) MΩ	2 MΩ		
		(330 to 1100) MΩ	20 MΩ		
	Capacitance (Measurement)	(220 to 399.9) pF	14 pF	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(0.4 to 1.0999) nF	0.018 nF		
		(1.1 to 3.2999) nF	0.031 nF		
		(3.3 to 10.999) nF	0.044 nF		
		(11 to 32.999) nF	0.22 nF		
		(33 to 109.99) nF	0.44 nF		
		(110 to 329.99) nF	1.4 nF		
		(0.33 to 1.0999) μF	4.4 nF		
		(1.1 to 3.2999) μF	0.014 μF		
		(3.3 to 10.999) μF	0.044 μF		
		(11 to 32.999) μF	0.21 μF		
		(33 to 109.99) μF	0.71 μF		
		(110 to 329.99) μF	2.1 μF		
(0.33 to 1.0999) mF	6.9 nF				
(1.1 to 3.2999) mF	0.020 mF				
(3.3 to 10.999) mF	0.069 mF				
(11 to 32.999) mF	0.33 mF				
(33 to 110.00) mF	1.6 mF				



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Electrical	Frequency (Measurement)	(0.01 to 119.99) Hz	7.4 mHz	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
		(120 to 1199.9) Hz	68 mHz		
		(1.2 to 11.999) kHz	45 Hz		
		(12 to 119.99) kHz	46 Hz		
		(120 to 1199.9) kHz	460 Hz		
		(1.2 to 2.0) MHz	4.5 kHz		
	DC Power (Measurement)	up to 20000 Watts	0.1 % × I	Calibration Methods: In house Procedures MEM-WP- 08A:2019	P
	AC Power 500 Hz to 1 kHz, Phase angle φ = 0. (Measurement)	up to 10000 Watts	0.11 % × I		
		> 10000 to 20000 Watts	0.18 % × I		
	AC Voltage, 10Hz to 20 kHz (Source)	(0 to 100) mV	0.14 mV	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 100 mV to 1 V	0.035 V		
		> 1 V to 10 V	0.042 V		
		> 10 V to 100 V	0.13 V		
		> 100 V to 1000 V	0.77 V		
	DC Voltage, (Source)	(0 to 100) mV	9 μV	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 100 mV to 1 V	0.8 mV		
		> 1 V to 10 V	0.9 mV		
		> 10 V to 100 V	5.3 mV		
		> 100 V to 1000 V	0.05 V		
	AC Current, 10Hz to 5 kHz (Source)	(0 to 100) μA	0.25 μA	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
> 100 μA to 1mA		47 μA			
> 1 mA to 10 mA		58 μA			
> 10 mA to 100 mA		0.18 mA			
> 100 mA to 1 A		47 mA			
> 1 A to 3 A		75 mA			
	> 3 A to 10 A	87 mA			



Accreditation Scope

**Middle East Calibration Lab L.L.C, NAL 110
Calibration Laboratory, (ISO/IEC 17025:2017)**

Industrial Area-6, Sharjah, UAE

**Issue Date: 30-12-2022
Issue No: 05**

Expiry Date: 29-04-2023

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical	DC Current, (Source)	(0 to 100) μ A	0.088 μ A	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 100 μ A to 1mA	6.4 μ A		
		> 1 mA to 10 mA	29 μ A		
		> 10 mA to 100 mA	64 μ A		
		> 100 mA to 1 A	24 mA		
		> 1 A to 10 A	27 mA		
	Resistance (Source)	(0 to 10) Ω	36 m Ω	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 10 Ω to 100 Ω	16 m Ω		
		> 100 Ω to 1 k Ω	1.2 k Ω		
		> 1 k Ω to 10 k Ω	2.3 Ω		
		> 10 k Ω to 100 k Ω	12.7 Ω		
		> 100 k Ω to 1 M Ω	1.3 k Ω		
		> 1 M Ω to 10 M Ω	6.6 k Ω		
		> 10 M Ω to 100 M Ω	0.96 M Ω		
	Capacitance (Source)	(0 to 1) nF	2.9 nF	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 1 nF to 10 nF	0.7 nF		
		> 10 nF to 100 nF	1.8 nF		
		> 100 nF to 1 μ F	0.6 μ F		
		> 1 μ F to 10 μ F	0.7 μ F		
		> 10 μ F to 100 μ F	1.9 μ F		
		> 100 μ F to 1 mF	0.6 μ F		
		> 1 mF to 10 mF	0.7 μ F		
	> 10 mF to 100 mF	4.9 μ F			



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Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical	Frequency (Source)	(3 to 10) Hz	58 mHz	Calibration Methods: In house Procedures MEM-WP- 08C:2019	P/S
		> 10 Hz to 19.9 Hz	69 mHz		
		> 20 Hz to 40 Hz	14 mHz		
		> 40 Hz to 200 Hz	23 mHz		
		> 200 Hz to 999.99 Hz	0.12 Hz		
		> 1 kHz to 2 kHz	0.23 Hz		
		> 2 kHz to 20 kHz	2.3 Hz		
		> 20 kHz to 200 kHz	23 Hz		
		>200 kHz to 300 kHz	35 Hz		
		>300 kHz to 1 MHz	120 Hz		
END					