



Accreditation Scope

Calmetrix For Electronics Devices L.L.C, NAL 176
Calibration Laboratory, (ISO/IEC 17025:2017)

M44, Mussafah Industrial Area, Abu Dhabi - UAE

Issue Date: 15-09-2022

Expiry Date: 14-09-2025

Issue No: 01

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical	DC Voltage - Measure	0 to 220 mV	0.059 %·U	Standard Procedure: Euramet CG-15	P
		> 0.22 V to 2.1 V	0.28 %·U		
		> 2.1 V to 21 V	0.058 %·U		
		> 21 V to 210 V	0.058 %·U		
		> 210 V to 1000 V	0.058 %·U		
	DC Current - Measure	0 µA to 210 µA	0.038 %·I	Standard Procedure: Euramet CG-15	P
		> 0.21 mA to 2.1 mA	0.29 %·I		
		> 2.1 mA to 21 mA	0.033 %·I		
		> 21 mA to 210 mA	0.034 %·I		
		> 0.21 A to 2.2 A	0.069 %·I		
	DC Current - Measure - 2 Turn Coil	> A 10 to 40 A	1.1 %·I	Standard Procedure: Euramet CG-15	P
	DC Current - Measure - 10 Turn Coil	> 400A to 200 A	0.82 %·I	Standard Procedure: Euramet CG-15	P
	DC Current - Measure - 50 Turn Coil	> 200 A to 1000 A	0.65 %·I	Standard Procedure: Euramet CG-15	P
	AC Voltage - Measure	1 to 20 mV (@ 40 to 65)Hz	0.45 %·U	Standard Procedure: Euramet CG-15	P
		1 mV to 20 mV (@ 65Hz to 1kHz)	0.34 %·U		
		> 20 mV to 200 mV (@ 40 to 65)Hz	0.062 %·U		
		> 20 mV to 200 mV (@ 65Hz to 1kHz)	0.062 %·U		
		> 0.2 V to 2 V (@ 40 to 65)Hz	0.061 %·U		
		> 0.2 V to 2 V (@ 65Hz to 1kHz)	0.061 %·U		



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Electrical	AC Voltage - Measure	> 2 V to 20 V (@ 40 to 65)Hz	0.061 %·U	Standard Procedure: Euramet CG-15	P
		> 2 V to 20 V (@ 65Hz to 1kHz)	0.061 %·U		
		> 20 V to 200 V (@ 40 to 65)Hz	0.071 %·U		
		> 20 V to 200 V (@ 65Hz to 1kHz)	0.071 %·U		
		> 200 V to 700 V (@ 40 to 65)Hz	0.11 %·U		
		> 200 V to 700 V (@ 65Hz to 1kHz)	0.11 %·U		
		> 700 V to 1000 V (@ 40 to 65)Hz	0.088 %·U		
		> 700 V to 1000 V (@ 65Hz to 1kHz)	0.088 %·U		
	AC Current - Measure	1 to 25.00 µA (@ 40 to 65)Hz	2.0 %·I	Standard Procedure: Euramet CG-15	P
		1 to 25.00 µA (@ 45 to 1)kHz	1.5 %·I		
		25.0 to 210.00 µA (@ 40 to 65)Hz	0.26 %·I		
		25 µA to 210 µA (@ 45 to 1)kHz	0.26 %·I		
		> 0.21 mA to 2 mA (@ 40 to 65)Hz	0.31 %·I		
		> 0.21 mA to 2 mA (@ 45 to 1)kHz	0.31 %·I		
> 0.21 mA to 20 mA (@ 40 to 65)Hz	0.13 %·I				



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Electrical	AC Current - Measure	> 0.21 mA to 20 mA (@ 45 to 1)kHz	0.11 %·I	Standard Procedure: Euramet CG-15	P
		> 21 mA to 210 mA (@ 40 to 65)Hz	0.11 %·I		
		>21 mA to 210 mA (@ 45 to 1)kHz	0.11 %·I		
		> 0.21 A to 2.1 A (@ 40 to 65)Hz	0.13 %·I		
		> 0.21 to 2.1 A (@ 45 to 1)kHz	0.13 %·I		
		> 2.1 to 10.00 A (@ 40 to 65)Hz	0.25 %·I		
		> 2.1 to 10.00 A (@ 45 to 1)kHz	0.33 %·I		
	AC Current - Measure - 2 Turn Coil	> 10 to 20 A (@ 45 to 65 Hz)	1.4 %·I	Standard Procedure: Euramet CG-15	P
		> 10 to 40 A (@t 45 to 65 Hz)	1.1 % I		
	AC Current - Measure - 10 Turn Coil	> 10 to 20 A (@ 45 to 65 Hz)	1.7 %·I	Standard Procedure: Euramet CG-15	P
		> 10 to 100 A (@ 45 to 65 Hz)	0.97 %·I		
	AC Current - Measure - 50 Turn Coil	> 10 to 20 A (@ 45 to 65 Hz)	3.2 %·I	Standard Procedure: Euramet CG-15	P
		> 10 to 100 A (@ 45 to 65 Hz)	1.2 %·I		
		> 10 to 1000 A (@ 45 to 65 Hz)	0.70 %·I		
	Resistance - Measure	0 Ω	0.13 Ω	Standard Procedure: Euramet CG-15	P
		10 Ω	1.3 %·R		
		100 Ω	0.13 %·R		



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Electrical	Resistance - Measure	1 kΩ	0.060 %·R	Standard Procedure: Euramet CG-15	P
		10 kΩ	0.059 %·R		
		100 kΩ	0.059 %·R		
		1 MΩ	0.062 %·R		
		10 MΩ	0.094 %·R		
	Frequency - Measure	100 Hz	0.006 %·F	Standard Procedure: Euramet CG-15	P
		1 kHz	0.058 %·F		
		10 kHz	0.058 %·F		
		20 kHz	0.029 %·F		
		50 kHz	0.012 %·F		
		100 kHz	0.006 %·F		
		1 MHz	0.058 %·F		
	Capacitance - Measure	10 nF	0.47 %·C	Standard Procedure: Euramet CG-15	P
		20 nF	0.55 %·C		
		50 nF	0.48 %·C		
		100 nF	0.47 %·C		
		1 μF	0.27 %·C		
	Temperature - Measure (Type J)	-210 °C to -30 °C	0.19 °C	Standard Procedure: Euramet CG-11	P
		> -30 °C to 150 °C	0.16 °C		
		> 150 °C to 1200 °C	0.25 °C		
	Temperature - Measure (Type K)	> -200 °C to 0 °C	0.21 °C	Standard Procedure: Euramet CG-11	P
		> 0 °C to 1000 °C	0.26 °C		
		> 1000 °C to 1370 °C	0.33 °C		
	Temperature - Measure (Type T)	-250 °C to 0 °C	0.26 °C	Standard Procedure: Euramet CG-11	P
> 0 °C to 120 °C		0.17 °C			
> 120 °C to 400 °C		0.17 °C			



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Electrical	Temperature - Measure (Type R)	0 °C to 250 °C	0.99 °C	Standard Procedure: Euramet CG-11	P
		> 250 °C to 1000 °C	0.54 °C		
		> 1000 °C to 1760 °C	0.61 °C		
	Temperature - Measure (Type S)	0 °C to 250 °C	0.98 °C	Standard Procedure: Euramet CG-11	P
		> 250 °C to 1000 °C	0.54 °C		
		> 1000 °C to 1760 °C	0.61 °C		
	Temperature - Measure (Type N)	-200 °C to -100 °C	0.29 °C	Standard Procedure: Euramet CG-11	P
		> -100 °C to 410 °C	0.26 °C		
		> 410 °C to 1300 °C	0.30 °C		
	Temperature - Measure (Type E)	-250 °C to -50 °C	0.20 °C	Standard Procedure: Euramet CG-11	P
		> -50 °C to 350 °C	0.16 °C		
		> 350 °C to 650 °C	0.21 °C		
	DC Voltage - Source	0 mV to 200 mV	0.015 %·U	Internal Procedure: LMR- WI-CAL-63	P
		> 0.200 V to 2.0000 V	0.035 %·U		
		> 2.00 V to 20.00 V	0.042 %·U		
		> 20.00 V to 200.00 V	0.009 %·U		
	DC Current - Source	> 200 V to 1000.0 V	0.014 %·U	Internal Procedure: LMR- WI-CAL-63	P
		0 µA to 200.00 µA	0.41 %·I		
		> 0.20 to 2.000 mA	0.18 %·I		
		> 2.0 to 20.00 mA	0.097 %·I		
		> 20 to 200.00 mA	0.070 %·I		
AC Voltage - Source	> 0.20 to 2.000 A	0.17 %·I	Internal Procedure: LMR- WI-CAL-63	P	
	> 2.0 to 10.00 A	0.36 %·I			
	0 mV to 200 mV (@ 45 to 1)kHz	0.27 %·U			
	> 0.200 V to 2.0000 V (@ 45 to 1)kHz	0.15 %·U			
	> 2.00 V to 20.00 V (@ 45 to 1)kHz	0.19 %·U			



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Electrical	AC Voltage - Source	> 20.00 V to 200.00 V (@ 45 to 1)kHz	0.17 %·U	Internal Procedure: LMR- WI-CAL-63	P
		> 200 V to 7500.0 V (@ 45 to 1)kHz	0.20 %·U		
	AC Current - Source	0 µA to 200.00 µA (@ 45 to 1)kHz	0.51 %·I	Internal Procedure: LMR- WI-CAL-63	P
		> 0.20 mA to 2.00 mA (@ 45 to 1)kHz	0.29 %·I		
		> 2.0 mA to 20.00 mA (@ 45 to 1)kHz	0.32 %·I		
		> 20 mA to 200.00 mA (@ 45 to 1)kHz	0.21 %·I		
		> 0.20 A to 2.000 A (@ 45 to 1)kHz	0.32 %·I		
		> 2.0 A to 10.00 A (@ 45 to 1)kHz	0.43 %·I		
	Resistance - Source	0 Ω to 200 Ω	0.12 %·R	Internal Procedure: LMR- WI-CAL-63	P
		> 200 Ω to 2 kΩ	0.019 %·R		
		> 2 kΩ to 20 kΩ	0.015 %·R		
		> 20 kΩ to 200 kΩ	0.015 %·R		
		> 200 kΩ to 1 MΩ	0.016 %·R		
		> 1 MΩ to 10 MΩ	0.048 %·R		



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Electrical	Capacitance - Source	0 to 1 μ F	3.0 %·C	Internal Procedure: LMR- WI-CAL-63	P
	Frequency - Source	1 to 10 Hz	0.031 %·F	Internal Procedure: LMR- WI-CAL-63	
		> 10 Hz to 50 Hz	0.009 %·F		
		> 50 Hz to 100 Hz	0.010 %·F		
		> 100 Hz to 1 kHz	0.058 %·F		
		> 1 kHz to 10 kHz	0.058 %·F		
		> 10 kHz to 100 kHz	0.010 %·F		
		> 100 kHz to 1 MHz	0.008 %·F		
		END			