

Accreditation Scope

Euromechanical Instrument Services LLC, NAL 147
Calibration Laboratory, (ISO/IEC 17025:2017)

M36, Abu Dhabi Industrial City (ICAD 1), Mussafah - Abu Dhabi, UAE

Issue Date: 15-02-2021

Expiry Date: 14-02-2024

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	AC power @ 50 HZ PF 1	(0.1 - 500) kW	0.2 %	EMIS-SOP-25:2020 Euramet cg-15:2015	P
	DC power	(0.1 - 500) kW	0.13 %	EMIS-SOP-25:2020 Euramet cg-15:2015	P
	DC Voltage Measuring Instruments	100 mV	30 μ V	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		1 V	12 μ V		
		10 V	0.13 mV		
		100 V	2 mV		
		1000 V	17 mV		
	Resistance 4- Wire Measuring Instruments	10 Ω	70 μ Ω	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		100 Ω	27 m Ω		
		1 k Ω	25 m Ω		
		10 k Ω	0.24 Ω		
		100 k Ω	24 Ω		
	Resistance 2- Wire Measuring Instruments	10 Ω	0.71 m Ω	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		100 Ω	26 m Ω		
		1 k Ω	0.03 Ω		
		10 k Ω	0.3 Ω		
		100 k Ω	24 Ω		
		1 M Ω	0.25 k Ω		
		10 M Ω	1.2 k Ω		
		100 M Ω	0.05 M Ω		
1 G Ω		12.0 M Ω			

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Electrical	DC Current Measuring Instruments	100 μ A	0.03 μ A	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		1 mA	0.12 μ		
		10 mA	1.0 μ A		
		100 mA	0.01 mA		
		400 mA	0.1 mA		
		1 A	2.0 mA		
		3 A	2.0 A		
		10 A	4.0 mA		
	AC Current measurement	100 μ A @ 45 Hz	0.06 μ A	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		100 μ A @ 1 kHz	0.05 μ A		
		100 μ A @ 10 kHz	0.16 μ A		
		1 mA @ 45 Hz	1 μ A		
		1 mA @ 1 kHz	1 μ A		
		1 mA @ 10 kHz	4 μ A		
10 mA @ 45 Hz	86 μ A				
10 mA @ 1 kHz	48 μ A				
10 mA @ 10 kHz	18 μ A				
100 mA @ 45 Hz	80 μ A				
100 mA @ 1 kHz	48 μ A				
100 mA @ 10 kHz	0.24 mA				
400 mA @ 45 Hz	0.64 mA				
400 mA @ 1 kHz	0.23 mA				
400 mA @ 10 kHz	12.0 mA				

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Electrical	AC Current measurement	1 A @ 45 Hz	1 mA	EMIS-SOP-01:2020 Euramet cg-15:2015	P	
		1 A @1 kHz	1 mA			
		1 A @10 kHz	0.02 A			
		3 A @ 45 Hz	3 mA			
		3 A @1 kHz	4 mA			
		3 A @10 kHz	7 mA			
	AC Voltage Measuring Instruments	10 A @ 45 Hz	7 mA	EMIS-SOP-01:2020 Euramet cg-15:2015	P	
		10 A @1 kHz	10 mA			
		100 mV @ 10 Hz	0.03 mV			
		100 mV @ 45 Hz	0.03 mV			
		100 mV @ 1 kHz	0.02 mV			
		100 mV @ 10 kHz	0.02 mV			
		100 mV @ 100 kHz	0.09 mV			
		1 V @ 10 Hz	0.3 mV			
			1 V @ 45 Hz			3 mV
			1 V @ 1 kHz			2 mV
			1 V @ 10 kHz			2 mV
			1 V @ 100 kHz			1 mV
			10 V @ 10 Hz			3 mV
			10 V @ 45 Hz			3 mV
		10 V @ 1 kHz	2 mV			
		10 V @ 10 kHz	2 mV			
		10 V @ 100 kHz	2 mV			
		10 V @ 100 kHz	2 mV			

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Electrical	AC Voltage Measuring Instruments	100 V @ 45 Hz	20 mV	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		100 V @ 1 kHz	20 mV		
		100 V @ 10 kHz	30 mV		
		1000 V @ 45 Hz	25 mV		
		1000 V @ 1 kHz	25 mV		
		1000 V @ 10 kHz	25 mV		
		1000 V @ 100 kHz	55 mV		
		100 µA @ 45 Hz	0.06 µA		
		100 µA @ 1 kHz	0.05 µA		
	100 µA @ 10 kHz	0.17 µA			
	Frequency Measuring Instruments	10 Hz	0.2 mHz	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		100 Hz	0.4 mHz		
		1 kHz	3.0 mHz		
		10 kHz	30 mHz		
		100 kHz	0.28 Hz		
		1000 kHz	2.8 Hz		
	Capacitance Measuring Instruments	1 nF	0.02 nF	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		10 nF	0.04 nF		
		100 nF	0.40 nF		
		1 µF	0.01 µF		
		10 µF	0.04 µF		
100 µF		0.70 µF			
1 mF		0.01 mF			
10 mF		0.07 mF			
100 mF	0.60 mF				

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Electrical	DC Voltage Source Instruments	(0 .0001 – 100) mV	1.0 μ V	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		(0.1 – 1) V	0.01 mV		
		(1 – 10) V	0.09 mV		
		(10 – 100) V	0.01 V		
		(100 – 1000) V	0.01 V		
	AC Voltage @ 50 Hz Source Instruments	(0 .001 – 10) mV	0.03 mV	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		(10 – 100) mV	0.08 mV		
		(0.00001 – 1) V	1 mV		
		(1 – 10) V	0.01 V		
		(10 – 100) V	0.08 V		
		(100 – 700) V	0.82 V		
	AC Current@50 Hz Source Instruments	(0 .01 – 100) μ A	0.02 μ A	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		(0.1 – 1) mA	0.01 mA		
		(1 – 10) mA	0.01 mA		
		(10 – 100) mA	0.1 mA		
(0.1 – 1) A		0.01 A			

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Electrical	DC Resistance Source Instruments	(0.001 – 10) Ω	0.07 mΩ	EMIS-SOP-01:2020 Euramet cg-15:2015	P
		(10 – 100) Ω	0.01 Ω		
		(0.1 - 1) kΩ	0.01 kΩ		
		(1 – 10) kΩ	0.01kΩ		
		(10 – 100) kΩ	0.01 kΩ		
		(100 – 1) MΩ	0.05 kΩ		
		(1 – 10) MΩ	0.70kΩ		
		(10 – 100) MΩ	0.06 MΩ		
	Thermocouple Simulation / Measurement - Type B	(600 - 800) °C	0.44 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(800 - 1000) °C	0.34 °C		
		(1000 - 1550) °C	0.30 °C		
		(1550 - 1820) °C	0.33 °C		
	Thermocouple Simulation / Measurement - Type C	(0 - 150) °C	0.30 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(150 - 650) °C	0.26 °C		
		(650 - 1000) °C	0.31 °C		
		(1000 - 1800) °C	0.50 °C		
	Thermocouple Simulation / Measurement Type E	(-250 to -100) °C	0.50 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-100 to -25) °C	0.16 °C		
		(-25 to 350) °C	0.14 °C		
		(350 to 650) °C	0.16 °C		
		(650 to 1000) °C	0.21 °C		

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Electrical	Thermocouple Simulation / Measurement Type J	(-210 to -100) °C	0.27 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-100 to -30) °C	0.16 °C		
		(-30 to 150) °C	0.14 °C		
		(150 to 760) °C	0.17 °C		
	Thermocouple Simulation / Measurement Type K	(760 to 1200) °C	0.23 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-200 to -100) °C	0.33 °C		
		(-100 to -25) °C	0.18 °C		
		(-25 to 120) °C	0.16 °C		
	Thermocouple Simulation / Measurement Type L	(120 to 1000) °C	0.26 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(1000 to 1372) °C	0.40 °C		
		(-200 to -100) °C	0.37 °C		
		(-100 to 800) °C	0.26 °C		
	Thermocouple Simulation / Measurement Type N	(800 to 900) °C	0.17 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-200 to -100) °C	0.40 °C		
		(-100 to -25) °C	0.22 °C		
		(-25 to 120) °C	0.19 °C		
	Thermocouple Simulation / Measurement Type R	(120 to 410) °C	0.18 °C	EMIS-SOP-04:2020	P
		(410 to 1300) °C	0.27 °C		
		(0 to 250) °C	0.57 °C		
		(250 to 400) °C	0.35 °C		
Thermocouple Simulation / Measurement Type S	(400 to 1000) °C	0.33 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P	
	(1000 to 1767) °C	0.40 °C			
	(0 - 250) °C	0.47 °C			
	(250 - 1000) °C	0.36 °C			
		(1000 - 1400) °C	0.37 °C		
		(1400 - 1767) °C	0.46 °C		

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Electrical	Thermocouple Simulation / Measurement Type T	(-250 to -150) °C	0.63 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-150 to 0) °C	0.24 °C		
		(0 to 120) °C	0.16 °C		
		(120 to 400) °C	0.14 °C		
	Thermocouple Simulation / Measurement Type U	(-200 to 0) °C	0.56 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(0 to 600) °C	0.27 °C		
	RTD Simulation Pt 385, 100	(-200 to -80) °C	0.05 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-80 to 0) °C	0.05 °C		
		(0 to 100) °C	0.07 °C		
		(100 to 300) °C	0.09 °C		
		(300 to 400) °C	0.10 °C		
		(400 to 630) °C	0.12 °C		
	Pt 3926, 100	(-200 to -80) °C	0.05 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-80 to 0) °C	0.05 °C		
		(0 to 100) °C	0.07 °C		
		(100 to 300) °C	0.09 °C		
		(300 to 400) °C	0.10 °C		
		(400 to 630) °C	0.12 °C		

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Electrical	Pt 3916, 100	(-200 to -190) °C	0.25 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-190 to -80) °C	0.04 °C		
		(-80 to 0) °C	0.05 °C		
		(0 to 100) °C	0.06 °C		
		(100 to 260) °C	0.07 °C		
		(260 to 300) °C	0.08 °C		
		(300 to 400) °C	0.09 °C		
		(400 to 600) °C	0.10 °C		
	Pt 385, 200	(600 to 630) °C	0.23 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(-200 to 100) °C	0.04 °C		
		(100 to 260) °C	0.05 °C		
		(260 to 300) °C	0.12 °C		
		(300 to 400) °C	0.13 °C		
	Pt 385, 500	(400 to 600) °C	0.14 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(600 to 630) °C	0.16 °C		
		(-200 to -80) °C	0.04 °C		
		(-80 to 100) °C	0.05 °C		
		(100 to 260) °C	0.06 °C		
	Pt 385, 1000	(260 to 400) °C	0.08 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(400 to 600) °C	0.09 °C		
		(600 to 630) °C	0.11 °C		
		(-200 to 0) °C	0.03 °C		
		(0 to 100) °C	0.04 °C		
		(100 to 260) °C	0.05 °C		
	(260 to 300) °C	0.06 °C			
	(300 to 600) °C	0.07 °C			
	(600 to 630) °C	0.23 °C			

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Electrical	Pt Ni 385, 120 Ω (Ni120)	(-80 to 100) °C	0.08 °C	EMIS-SOP-04:2020 Euramet Cg-11:2015	P
		(100 to 260) °C	0.14 °C		
	Cu 427, 10 Ω	(-100 to 260) °C	0.3 °C		
	AC Current / Clamp Meters @ 50 Hz	(0 - 1000) A	0.4 %	EMIS-SOP-01:2020	P
	DC Current / Clamp Meters	(0 - 1000) A	0.35 %	EMIS-SOP-01:2020	P
	Digital Low resistance Meter	0.9999mΩ	0.01 mΩ	EMIS-SOP-28:2020	P
		9.9979 mΩ	0.01 mΩ		
		9.9979 mΩ	0.03 mΩ		
		100.1 mΩ	0.04 mΩ		
		1.0032 Ω	0.01 Ω		
		9.978 Ω	0.03 Ω		
		18.9888 Ω	0.05 Ω		
		39.94724 Ω	0.06 Ω		
		100.03 Ω	0.02 Ω		
190.08 Ω		0.05 Ω			
400.17 Ω	0.4 Ω				
999.7 Ω	0.4 Ω				
1899.97 Ω	0.4 Ω				
PAT Earth Bond Current Measurement	100 mA - 25 A	25 mA	EMIS-SOP-22:2020	P	
PAT Leakage Current Measurement @ 240 V	2.0 mA	50 μA	EMIS-SOP-22:2020	P	
	4.7 mA	50 μA			
	7.7 mA	50 μA			

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Electrical	Insulation tester (Resistance) Voltage up to 5 KV	1.00 MΩ 10.00 MΩ 100.00 MΩ 1.00 GΩ 10.00 GΩ	0.01 MΩ 0.3 MΩ 3 MΩ 0.02 GΩ 0.58 GΩ	EMIS-SOP-22:2020	P
	PAT earth Bond Resistance	0.0979 Ω 0.1449 Ω 0.2670 Ω 0.3872 Ω 0.5528 Ω 1.0485 Ω 5.1346 Ω 10.0575 Ω	0.05 Ω 0.05 Ω 0.05 Ω 0.05 Ω 0.05 Ω 0.06 Ω 0.07 Ω 0.08 Ω	EMIS-SOP-22:2020	P
	RCD Tester	RCD Current 10.01 mA 30.10 mA 100.19 mA 301.1 mA 500.6 mA 1001.2 mA 15.03 mA 150.3 mA	1.2 mA 1.2 mA 1.2 mA 1.2 mA 1.2 mA 1.9 mA 1.2 mA 1.2 mA	EMIS-SOP-22:2020	P
		Trip Time 30.0 ms 50.0 ms 100.0 ms 150.0 ms 200.0 ms 250.0 ms 300.0 ms	1 ms 1 ms 1 ms 1 ms 1 ms 1 ms 1 ms	EMIS-SOP-22:2020	P

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Electrical	Oscilloscope Voltage Coefficient	(2 - 200) V	0.3 %	EMIS-SOP-23:2020 Euramet CG 7:2011	P
	Time Coefficient Bandwidth	2 nS - 4 S 200 MHz	0.02 % 3 MHz		
	Primary Current Injection System - Ac	(0 - 2000) A	1.2 %	EMIS-SOP-29:2020	P
	Dc high Voltage Test Set	(0 - 40) KV	0.2 kV	EMIS-SOP-24:2020	P
	Ac High Voltage Test set	(0 - 28) KV	0.6 %		
Temperature	Temperature dry block calibrator	(-25 to 150) °C	0.03 °C	EMIS-SOP-4:2020	P
	1 Point Calibration: Liquid Bath	(30 - 150) °C	0.30 °C		P / S
	5 Point Calibration: Freezer, fridge, chiller, oven	(-25 to 200) °C	1.0 °C		
		(> 200 to 400) °C	2.0 °C		
	Thermometer, transmitter	(-25 to 150) °C	0.30 °C		
		(>150 to 660) °C	0.50 °C	P	
	IR Thermometers	(35 to 200) °C	1.5 °C	EMIS-SOP-26:2020	P
(>200 to 500) °C		4.0 °C			

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Pressure (Hydraulic)	Dead weight tester	(1 - 1400) bar	0.01 %	EMIS-SOP-21:2020 Euramet cg -3:2011	P
	Pressure gauge, transmitter, recorder, calibrator	(0 - 70) bar	1.0 mbar + 0.01%	EMIS-SOP-02:2020 Euramet cg-17:2019	P
		(> 70 - 1400) bar			P / S
Pressure (Pneumatic)	Barometric pressure gauges Pressure gauge, transmitter, recorder, calibrator	(0 to 1) bar	0.27 mbar	EMIS-SOP-03:2020 Euramet cg-17:2011	P
		(> 1 to 20) bar	3.0 mbar		
		(> 20 - 35) bar	5.5 mbar		
	(0 to 20) bar	0.20 bar	S		
Pressure (Vacuum)	Vacuum gauges	(-0.9 to 0) bar	0.20 bar		S
		(-0.97 to 0) bar	0.70 mbar		P
Rotational speed	Non-contact mode: Centrifuges Tachometers	(60- 6000) rpm	1.0 rpm	EMIS-SOP-27:2020	P / S
		(> 6000 - 100000) rpm	2.0 rpm		
Sound	Sound Level Meter	Sound level @ 1 kHz 94, 104 dB	0.30 dB	EMIS-SOP-16:2018	P
Air Velocity	Anemometer	(0 - 10) m/s	1.0 m/s	EMIS-SOP-20:2018	P
		(> 10 - 15) m/s	2.0 m/s		
	Wind tunnels	(0 - 30) m/s	2.0 m/s		S
Torque	Torque Wrenches	(0 – 1500) Nm	2.0 %	EMIS-SOP-6:2020	P
Mass	Weighing balances	(0 – 600) kg	0.10 %	EMIS-SOP-14:2018	P/S

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pH	pH Meters	4, 7, 10 pH	0.040 pH	EMIS-SOP-19:2018	P/S
	Conductivity Meters	@ 25 °C 1413 µS/cm 12880 µS /cm	1.0 µS/cm		
Electrical Conductance	Vernier Caliper (outside dimension)	(0 - 200) mm	10 µm	EMIS-SOP-5:2020	P
	Outside Micrometers	(0 – 200) mm	3.0 µm		
	Coating Thickness Meter	(24 – 1030) µm	5.0 µm		
	Dial gauge	(0 – 25) mm	20 µm	EMIS-SOP-31:2020	P
END					