Accreditation Scope

Progressive Technology & Services L.L.C., NAL 070
Calibration Laboratory, (ISO/IEC 17025:2017)

Mussafah, Abu Dhabi, UAE

Issue Date: 20-05-2020 **Expiry Date: 11-04-2021**

Issue No: 05

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical Measure-Calibration of Sources	DC Voltage	0 mV to 320 mV	0.017 % I.	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 0.32 V to 3.2 V	0.017 % .I		
		> 3.2 V to 32 V	0.019 % .I		
		> 32 V to 320 V	0.019 % .I		
		> 320 V to 1000 V	0.019 % .I		
	AC Voltage (40Hz -3kHz)	0 mv to 320 mV	0.38 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 0.32 V to 3.2 V	0.12 % .I		
		> 3.2 V to 32 V	0.12 % .I		
		> 32 V to 320 V	0.11 % .I		
		> 320 V to 1000 V	0.21 % .I		
	DC Current – Direct	0 µA to 320 µA	0.041 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 0.32 mA to 3.2 mA	0.039% .I		
		> 3.2 mA to 32 mA	0.039% .I		
		> 32 mA to 320 mA	0.044 % .I		
		> 0.32 A to 3.2 A	0.15 % .I		
		> 3.2 A to 10.5 A	0.15 % .I		
		> 10.5 A to 20 A	0.18 % .I		
	DC Current - Simulation using x 10 coil	3.2 A to 32 A	1.27 % .I	SCP-El-WI-02:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 32 A to 105 A	0.43 % .I		
		> 105 A to 200 A	0.37 % .I		
	DC Current - Simulation using x 50 coil	> 16 A to 160 A	0.32 % .I	SCP-El-WI-02:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 160 A to 525 A	0.33 % .I		
		> 525 A to 1000 A	0.36 % .I		

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Electrical Generate-Calibration of Meters	AC Current (10Hz - 3kHz)	0 µA to 320 µA	0.38 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 0.32 mA to 3.2 mA	0.19 % .I		
		> 3.2 mA to 32 mA	0.19 % .I		
		> 32 mA to 320 mA	0.21 % .I		
		> 0.32 A to 3.2 A	0.27 % .I		
		> 3.2 A to 10.5 A	0.53 % .I		
		> 10.5 A to 20 A	0.54 %. I		
	AC Current (10Hz -100Hz) - Simulation using x 10 coil	3.2 A to 32 A	2.68 % .I	SCP-El-WI-02:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 32 A to 200 A	1.26 % .I		
	AC Current (10Hz -100Hz) – Simulation using x 50 coil	>16 A to 160 A	1.09 % .I	SCP-El-WI-02:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 160 A to 1000 A	1.18 % .I		
	Resistance	0 Ω to 40 Ω	0.116 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		> 40 Ω to 400 Ω	0.058 % .I		
		> 0.4 kΩ to 4 kΩ	0.040 % .I		
		> 4 kΩ to 40 kΩ	0.051 % .I		
		> 40 kΩ to 400 kΩ	0.051 % .I		
		> 0.4 MΩ to 4 MΩ	0.12 % .I		
		> 4 MΩ to 40 MΩ	0.047 % .I		
		> 40 MΩ to 400 MΩ	0.098 % .I		

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Electrical Generate-Calibration of Meters	Frequency	0.5 Hz to 10.0 MHz	60 ppm	SCP-El-WI-38:2019 based on Euramet cg-15:2015, Version 3.0	P
	Capacitance	4.001 nF to 40 nF	0.87 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
		>40 nF to 400nF	0.94 % .I		
		>400 nF to 4µF	1.14 % .I		
		> 4µF to 40 µF	1.35 % .I		
		>40 µF to 400 µF	1.60 % .I		
		> 400 µF to 4 mF	3.72 % .I		
		> 4 mF to 40 mF	2.71 % .I		
	Inductance	1mH to 10 H	3.5 % .I	SCP-El-WI-50:2019	P
	Insulation Resistance	10 MΩ	2.31 % .I	SCP-El-WI-08:2019 based on Euramet cg-15:2015, Version 3.0	P
		100 MΩ	2.31 % .I		
		1 GΩ	2.32 % .I		
		10 GΩ	2.32 % .I		
	DC Power	100 W to 1000 W	0.15 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
	AC Power (Single Phase @ 60 Hz)	100 W to 1000 W	0.75 % .I	SCP-El-WI-01:2019 based on Euramet cg-15:2015, Version 3.0	P
	Power / Energy	20 mA to 50 mA (30 to 480) V, (0.1 to 1) pf	0.15 % .I	SCP-El-WI-75:2019 based on Active Energy – IEC 62053-22:2003, Table 4 & 5, Reactive Energy – IEC 62053-24:2014, Table 5 & 6	P/S
		50 mA to 12 A (30 to 480) V, (0.1 to 1) pf	0.06 %.I		

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Electrical Generate-Calibration of Sources	DC Voltage	0 mV to 100 mV	0.016 % .I	SCP-El-WI-26:2019	P
		> 0.1 V to 1 V	0.008 % .I		
		> 1 V to 10 V	0.008 % .I		
		>10 V to 100 V	0.010 % .I		
		>100 V to 1000 V	0.009 % .I		
	AC Voltage (10 Hz - 20 kHz)	0 mV to 100 mV	0.15 % .I	SCP-El-WI-26:2019	P
		>100 mV to 1 V	0.15 % .I		
		>1 V to 10 V	0.15 % .I		
		>10 V to 100 V	0.13 % .I		
		>100 V to 0750 V	0.13 % .I		
	DC Current	0 µA to 100 µA	0.075 % .I	SCP-El-WI-26:2019	P
		>100 µA to 1 mA	0.058 % . I		
		>1mA to 10 mA	0.069 % .I		
		>10 mA to 100 mA	0.058 % .I		
		>0.1 A to 1 A	0.108 % .I		
		>1 A to 3 A	0.206 % .I		
		>3 A to 10 A	0.136 % .I		
	AC Current (3Hz - 5kHz)	0 µA to 100 µA	0.31 % .I	SCP-El-WI-26:2019	P
		>100 µA to 1 mA	0.23 % .I		
		>1 mA to 10 mA	0.14 % .I		
		>10 mA to 100 mA	0.13 % .I		
		>0.1 A to 1 A	0.13 % .I		
		>1 A to 3 A	0.23 % .I		
		>3 A to 10 A	0.18 % .I		

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Electrical Measure – Calibration of Sources	Resistance – 4-wire	0.0001 Ω to 100 Ω	0.02 % .I	SCP-El-WI-26:2019	P
		>0.1 kΩ to 1 kΩ	0.043 % .I		
		>1 kΩ to 10 kΩ	0.012 % .I		
		>10 kΩ to 100 kΩ	0.012 % .I		
	Resistance – 2-wire	>0.1 MΩ to 1 MΩ	0.043 % .I	SCP-El-WI-26:2019	P
		>1 MΩ to 10 MΩ	0.053 % .I		
		> 10 MΩ to 100 MΩ	0.67 % .I		
	Frequency	0.1 to 100 MHz	50 ppm	SCP-El-WI-52:2019	P
Pressure	Pressure (Hydraulic)	(0 to 700) bar	0.1 bar	SCP-P-WI-01:2020 based on DKD-R 6-1:2014	P / S
		(> 700 to 2800) bar	1 bar		
		(-0.9 to 0) bar	0.7 mbar		P
		(0 to 20) bar	1.2 mbar		
		(> 20 to 200) bar	14 mbar		
Dimensional	Dial gauge	(0 to 25) mm	2 µm	SCP-D-WI-05:2019 based on BS 908:2008	P
	Caliper	(0 to 300) mm	30 µm	SCP-D-WI-04:2019 based on BS EN ISO 13385-1:2011	P
	Outside micrometer	(0 to 300) mm	3 µm	SCP-D-WI-01:2019 based on BS EN ISO 3611:2010	P
Thermo hygrometer	Air Temperature	20°C to 25 °C	0.7 °C	SCP-T-WI-18:2020	P
	Relative Humidity	(30 % to 90 %) RH at 25 °C	2.3 % RH	SCP-T-WI-18:2020	P

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Temperature	Direct Indicating with Sensor	(-15 to 120) °C	0.22 °C	SCP-T-WI-02:2019	P
	Infrared Thermometer	(-15 to < 0) °C	1.7 °C	SCP-T-WI-03:2019 based on ASTM E 2847-14:2014	P
	Infrared Thermometer	(0 to 120) °C	1.0 °C	SCP-T-WI-03:2019 based on ASTM E 2847-14	P
	Climatic Chamber (Freezer, Chiller, Hot Cabinet)	(-25 to 85) °C	1.3 °C	SCP-T-WI-05:2020 based on Euramet cg-20:2015, Version 4.0	P/S
Temperature - Simulation	RTD (Pt 100) Calibration of simulator	(-200 to 850) °C	0.29 °C	SCP-T-WI-01:2019	P
	RTD (Pt 100) Calibration of the indicator	(-200 to 850) °C	0.15 °C	SCP-T-WI-01:2019	P
	Thermocouple Type J Calibration of simulator	(-210 to 1200) °C	0.33 °C	SCP-T-WI-01:2019	P
	Thermocouple Type J Calibration of the indicator	(-210 to 1200) °C	0.31 °C	SCP-T-WI-01:2019	P
	Thermocouple Type K Calibration of simulator	(-1270 to 1350) °C	0.42 °C	SCP-T-WI-01:2019	P
	Thermocouple Type K Calibration of the indicator	(-1270 to 1350) °C	0.41 °C	SCP-T-WI-01:2019	P

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Temperature - Simulation	Thermocouple Type R Calibration of simulator	(0 to 1760) °C	1.2 °C	SCP-T-WI-01:2019	P
	Thermocouple Type R Calibration of the indicator	(0 to 1760) °C	1.2 °C	SCP-T-WI-01:2019	P
	Thermocouple Type E Calibration of simulator	(-240 to 970) °C	0.67 °C	SCP-T-WI-01:2019	P
	Thermocouple Type E Calibration of the indicator	(-240 to 970) °C	0.66 °C	SCP-T-WI-01:2019	P
Mass	Precision Balance	(100 mg to 5 kg)	9 mg	SCP-M-WI-02:2019	P
	Weighing Scale	(> 5 to 40) kg	64 mg		
Torque	Torque Wrench	(30 to 1500) N.m - Clockwise	1.2 %. I	SCP-TRQ-WI-01:2020 based on ISO 6789-1&2:2017	P
		(30 to 1500) N.m – Counter-Clockwise	1.2 %. I		
END					

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