

# Accreditation Scope

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

**Industrial Mussafah M9, Abu Dhabi, UAE**

Issue Date: 08-04-2021

Expiry Date: 07-04-2024

Issue No: 06

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical - Calibration of Meters	DC Voltage	0 mV to 320 mV	0.01 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		> 0.32 V to 3.2 V	0.02 % .I		
		> 3.2 V to 32 V	0.01 % .I		
		> 32 V to 320 V	0.02 % .I		
		> 320 V to 1000 V	0.02 % .I		
	DC Current - Direct	0 μA to 320 μA	0.02 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		> 0.32 mA to 3.2 mA	0.02% .I		
		> 3.2 mA to 32 mA	0.02% .I		
		> 32 mA to 320 mA	0.02 % .I		
		> 0.32 A to 3.2 A	0.07 % .I		
		> 3.2 A to 10.5 A	0.07 % .I		
	DC Current - Simulation using x10 coil	3.2 A to 32 A	0.64 % .I	SCP-EI-WI-02:2019	P
		> 32 A to 105 A	0.24 % .I		
		> 105 A to 200 A	0.21% .I		
	DC Current - Simulation using x50 coil	> 16 A to 160 A	0.19 % .I	SCP-EI-WI-02:2019	P
		> 160 A to 525 A	0.19 % .I		
		> 525 A to 1000 A	0.20% .I		
	Resistance	0 Ω to 40 Ω	0.06 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		> 40 Ω to 400 Ω	0.03 % .I		
		> 0.4 kΩ to 4 kΩ	0.02 % .I		
		> 4 kΩ to 40 kΩ	0.03 % .I		
> 40 kΩ to 400 kΩ		0.05 % .I			
> 0.4 MΩ to 4 MΩ		0.06 % .I			
> 4 MΩ to 40 MΩ		0.02 % .I			
> 40 MΩ to 400 MΩ	0.05 % .I				

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Electrical - Calibration of Meters	AC Voltage (10 Hz to 3 kHz)	0 mV to 32 mV	0.19 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		>32 to 320 mV	0.19 % .I		
		> 0.32 V to 3.2 V	0.06 % .I		
		> 3.2 V to 32 V	0.06 % .I		
		> 32 V to 320 V	0.06 % .I		
		> 320 V to 1000 V	0.11 % .I		
	AC Current (10Hz - 3kHz)	0 μA to 320 μA	0.19 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		> 0.32 mA to 3.2 mA	0.09 % .I		
		> 3.2 mA to 32 mA	0.09 % .I		
		> 32 mA to 320 mA	0.11 % .I		
		> 0.32 A to 3.2 A	0.34 % .I		
		> 3.2 A to 10.5 A	0.27 % .I		
	AC Current (10Hz -100Hz) - Simulation using x 10 coil	3.2 A to 32 A	1.35 % .I	SCP-EI-WI-02:2019	P
		> 32 A to 200 A	0.64 % .I		
	AC Current (10Hz -100Hz) - Simulation using x 50 coil	> 16 A to 160 A	0.56 % .I	SCP-EI-WI-02:2019	P
		> 160 A to 1000 A	0.60 % .I		
	Capacitance	4.001 nF to 40 nF	0.44 % .I	SCP-EI-WI-01:2019 EURAMET cg-15:2015	P
		>40 nF to 400nF	0.47 % .I		
		>400 nF to 4μF	0.57 % .I		
		> 4μF to 40 μF	0.68 % .I		
		>40 μF to 400 μF	0.80 % .I		
> 400 μF to 4 mF		1.86 % .I			
	> 4 mF to 40 mF	1.36 % .I			

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Electrical - Calibration of Meters	Frequency	0.5 Hz to 10.0 MHz	30 ppm	SCP-EI-WI-38:2019 EURAMET cg-15:2015	P
	Inductance	1mH to 10 H	3.5 % .I	SCP-EI-WI-50:2019	P
	DC Power	100 W to 1000 W	0.15 % .I	SCP-EI-WI-01:2019	P
	AC Current (1-phase;50Hz)	100 W to 1000 W	0.75 % .I		
	Power / Energy	20 mA to 50 mA (30 to 480) V (0.1 to 1) pf	0.15 % .I	SCP-EI-WI-75:2019 IEC 62053-22, IEC 62053-23, IEC62053-24	P / S
50 mA to 12 A (30 to 480) V, (0.1 to 1) pf			0.06 % .I		
Electrical - Calibration of Sources	DC Voltage	0 mV to 100 mV	0.02 % .I	SCP-EI-WI-26:2019	P
		> 0.1 V to 1 V	0.01 % .I		
		> 1 V to 10 V	0.01 % .I		
		>10 V to 100 V	0.01 % .I		
		>100 V to 1000 V	0.01 % .I		
	DC Current	0 μA to 100 μA >100 μA to 1 mA >1mA to 10 mA >10 mA to 100 mA >0.1 A to 1 A >1 A to 3 A >3 A to 10 A	0.08 % .I	SCP-EI-WI-26:2019	P
			0.06 % .I		
			0.07 % .I		
			0.06% .I		
			0.11 % .I		
			0.21 % .I		
	Resistance (4-wire)	0.0001 Ω to 100 Ω >0.1 kΩ to 1 kΩ >1 kΩ to 10 kΩ >10 kΩ to 100 kΩ >0.1 MΩ to 1 MΩ >1 MΩ to 10 MΩ	0.02 % .I	SCP-EI-WI-26:2019	P
			0.04 % .I		
			0.01 % .I		
			0.01 % .I		
			0.04 % .I		
	Resistance (2-wire)	> 10 MΩ to 100 MΩ	0.66 % .I		

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Electrical - Calibration of Sources	AC Voltage (10Hz - 20kHz)	0 mV to 100 mV	0.15 % .I	SCP-EI-WI-26:2019	P
		>100 mV to 1 V	0.15 % .I		
		>1 V to 10V	0.15 % .I		
		>10 V to 100 V	0.13 % .I		
		>100 V to 0750 V	0.13 % .I		
	AC Current (3Hz - 5kHz)	0 μA to 100 μA	0.31 % .I	SCP-EI-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		
	Frequency	0.1Hz to 100 MHz	60 ppm	SCP-EI-WI-52:2019	P
Electrical – Calibration of Meters	RCD Trip-Time (setting current from 10 mA to 1000 mA)	18.3 ms	0.4 ms	SCP-En-WI-22:2021	P
		31.6 ms	0.4 ms		
		58.3 ms	0.4 ms		
		111 ms	1 ms		
		218 ms	1 ms		
		431 ms	1 ms		
		858 ms	1 ms		
		1711 ms	1 ms		
	Insulation Resistance (up to 1kV)	0.5 MΩ	0.6 % .I	SCP-EI-WI-08:2021	P
		2 MΩ	0.59 % .I		
		3 MΩ	0.59 % .I		
		5 MΩ	0.59 % .I		
		7 MΩ	0.59 % .I		
		10 MΩ	0.59 % .I		
		19 MΩ	0.58 % .I		
		100 MΩ	0.59 % .I		
		180 MΩ	0.59 % .I		
		900 MΩ	0.59 % .I		

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Electrical – Calibration of Meters	Insulation Resistance (up to 5kV)	10 MΩ	2.3 % .I	SCP-EI-WI-08:2021	P
		100 MΩ	2.3 % .I		
		1 GΩ	2.3 % .I		
		10 GΩ	2.3 % .I		
	Passive Resistance	0.1 Ω	0.25 % .I	SCP-EI-WI-07:2021	P
		1 Ω	0.07 % .I		
		10 Ω	0.02 % .I		
		100Ω	0.02 % .I		
		1 kΩ	0.07 % .I		
		10 kΩ	0.02 % .I		
	Leakage Current	0.1 mA	0.01 mA	SCP-EI-WI-82:2020	P
		0.5 mA	0.01 mA		
		1 mA	0.02 mA		
1.5 mA		0.02 mA			
1.9 mA		0.02 mA			
3.0 mA		0.02 mA			
5.0 mA		0.04 mA			
10.0 mA		0.07 mA			
Temperature - Simulation Calibration of source	RTD (Pt 100)	(-200 to 850) °C	0.29 °C	SCP-T-WI-01:2020	P / S
	Type J	(-210 to 1200) °C	0.33 °C		
	Type K	(-1270 to 1350) °C	0.42 °C		
	Type T	(-240 to 400) °C	0.51 °C		
	Type E	(-240 to 970) °C	0.35 °C		
	Type R	(0 to 1760) °C	1.3 °C		
	Type S	(0 to 1760) °C	1.3 °C		

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Temperature - Simulation Calibration of meters	RTD (Pt 100)	(-200 to 850) °C	0.28 °C	SCP-T-WI-01:2019	P / S
	Type J	(-210 to 1200) °C	0.31 °C		
	Type K	(-1270 to 1350) °C	0.41 °C		
	Type T	(-240 to 400) °C	0.52 °C		
	Type E	(-240 to 970) °C	0.66 °C		
	Type R	(0 to 1760) °C	1.2 °C		
	Type S	(0 to 1760) °C	1.2 °C		
Temperature	Thermometers, sensors	(-20 to 120) °C	0.22 °C	SCP-T-WI-02:2019	P
	Infrared Thermometer	(-15 to 0) °C	1.7 °C	SCP-T-WI-03:20219	P
		(> 0 to 120) °C	1.0 °C		
	Climatic Chamber (Freezer, Chiller, Hot Cabinet)	(-25 to 85) °C (9-point calibration)	1.3 °C	SCP-T-WI-05:20219 DKD-R 5-7:2009	P / S
Climatic Chamber (Freezer, Chiller, Hot Cabinet)	(-25 to 85) °C (1 point)	1.0 °C	SCP-T-WI-05:20219 DKD-R 5-7:2009	P / S	
Relative Humidity	Thermo hygrometer at ambient temperature (One point)	(30 % to 90 %) RH Between 20°C to 25 °C	2.3 % RH 0.7 °C	SCP-T-WI-18:2020	P
Pressure	Pressure (Pneumatic) – Vacuum	(-0.9 to 0) bar	0.6 mbar	SCP-P-WI-01:2020	P / S
	Pressure (Pneumatic)	(0 to 10) bar	0.8 mbar	SCP-P-WI-01:2020 DKD-R 6-1:2014	P
		(>10 to 20) bar	1.2 mbar		
		(>20 to 100) bar	10 mbar		
		(>100 to 200) bar	14 mbar		
	Pressure (Hydraulic)	(0 to 70) bar	0.01 bar	SCP-P-WI-01:2020 DKD-R 6-1:2014	P / S
(>70 to 700) bar		0.1 bar			
(>700 to 2800) bar		1 bar			

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Dimensional	Caliper	(0 to 300) mm	30 µm	SCP-D-WI-04:2019	P
	Outside Micrometer	(0 to 300) mm	3 µm	SCP-D-WI-01:2019	P
	Dial Gauge	(0 to 25) mm	2 µm	SCP-D-WI-05:2019	P
Mass	Non-automatic Weighing Instrument	1 mg - 50 g	0.1 mg	SCP-M-WI-02:2019	P / S
		(> 50 to 200) g	0.2 mg		
		(> 0.2 to 5) kg	0.1 g		
		(> 5 to 20) kg	1 g		
		(> 20 to 100) kg	10 g		
		(> 100 to 200) kg	100 g		
Torque	Hand Torque Wrench	(1.25 to 25) N.m	1.2% .l	SCP-TRQ-WI-01:2020	P
		(30 to 1500) N.m	1.0% .l		
Rotational speed	Non-Contact Tachometer	(0 to 100 000) rpm	1 rpm + 0.01 % .l	SCP-En-WI-03:2020	P
<b>END</b>					

- l = measured value