



Accreditation Scope

**Anaum International Electronics LLC, NAL 157
Calibration Laboratory, (ISO/IEC 17025:2017)**

ICAD1, Musaffah - M41, Abu Dhabi, UAE

**Issue Date: 24-03-2024
Issue No: 03**

Expiry Date: 23-09-2024

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measurement Range	Expanded Measurement Uncertainty (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Pressure	Pneumatic Pressure	(-0.92 to 25) bar	0.02 %	AN-SOP-CL03:2020	P / S
		(-350 to -10) mbar	0.21 mbar		
		(> -10 to 10) mbar	0.011 mbar		
		(> 10 to 350) mbar	0.21 mbar		
		(750 to 1150) mbar (Absolute)	0.39 mbar		
		(> 25 to 35) bar	50 mbar		
		(> 35 to 70) bar	50 mbar		
	Hydraulic Pressure	(> 70 to 200) bar	0.06 bar		
		(0 to 60) bar	0.02 %		
		(> 60 to 1200) bar	0.02 %		
Temperature	Dry Block Calibrators	(-40 to 150) °C	0.09 °C	AN-SOP-CL02:2020	P
		(> 150 to 400) °C	0.14 °C		
		(> 400 to 660) °C	0.2 °C		
		(> 660 to 1000) °C	1.0 °C		
	Temperature Bath (1 point)	(-30 to 150) °C	0.06 °C	AN-LCP-04:2020 AN-LCP-06:2020	P / S
	Thermometers	(-40 to 150) °C	0.5 °C		
		(> 150 to 400) °C	0.5 °C		
		(> 400 to 650) °C	0.5 °C		
		(> 650 to 1000) °C	0.5 °C		
	IR Thermometer	(> 1000 to 1200) °C	2 °C		
(35 to 120) °C		2 °C	AN-SOP-CL05:2020	P	
Humidity Sensor Transmitter	(15 to 70) °C	AN-LCP-04:2020			P
	(10 to 95) %RH		2 %RH		



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Dimension	Calipers	(0 to 100) mm	0.04 mm	AN-LCP-01:2020	P
		(> 100 to 500) mm	0.08 mm		
	Outside Micrometers	(0 to 25) mm	1.6 µm	AN-LCP-02:2020	P
		(> 25 to 50) mm	2.9 µm		
		(> 50 to 100) mm	3.7 µm		
	Inside Micrometers	(25 to 600) mm	13 µm		
	Depth Micrometers	(0 to 300) mm	9 µm		
Dial Indicators	(0 to 25) mm	4 µm	AN-LCP-03:2020	P	
Air Velocity	Anemometers	(0 to 15) m/s	0.5 m/s	AN-SOP-CL11:2020	P
Vibration	Vibration Meter	Acceleration (a): 0 to 196 m/s ² Velocity (v): 0 to 500 mm/s Displacement (d): 0 to 3.8 mm	@ 7 to 10 Hz 9 % @ 10 to 30 Hz 8 % @ 30 to 2000 Hz 8 % @ 2 to 10 kHz 8 %	AN-SOP-CL12:2020	P/S
Sound	Sound Level Meter	94 dB 114 dB	0.5 dB	AN-SOP-CL13:2020	P
Torque	Torque Wrench	(0.04 to 1500) N.m	3.5 %	AN-SOP-CL08:2020	P
Rotational Speed	Tachometers (non-contact)	(0 to 9000) RPM	1 RPM	AN-SOP-CL14:2020	P
Light	Lux Meters	(0 to 15) kLux	7 %	AN-SOP-CL15:2020	P



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Electrical	DC Voltage - Source	(0 to 329.9999) mV	9 μ V	AN-SOP-CL01:2020	P
		(0.330 to 3.299999) V	40 μ V		
		(3.3 to 32.99999) V	2 mV		
		(33 to 329.9999) V	5 mV		
		(330 to 1020) V	26 mV		
	DC Current - Source	(0 to 329.999) μ A	0.4 μ A	AN-SOP-CL01:2020	P
		(0.330 to 3.29999) mA	1.6 μ A		
		(3.3 to 32.9999) mA	3 μ A		
		(33 to 329.999) mA	26 μ A		
		(0.330 to 2.99999) A	0.5 mA		
		(3 to 10.9999) A	2 mA		
	Resistance - Source	(0 to 10.9999) Ω	2 m Ω	AN-SOP-CL01:2020	P
		(11 to 109.9999) Ω	4 m Ω		
		(0.110 to 1.099999) k Ω	26 m Ω		
		(1.1 to 3.299999) k Ω	53 m Ω		
		(3.3 to 10.99999) k Ω	0.3 Ω		
		(11 to 109.9999) k Ω	2.1 Ω		
		(0.110 to 1.099999) M Ω	36 Ω		
(1.1 to 3.299999) M Ω	0.15 k Ω				
(3.3 to 10.99999) M Ω	0.7 k Ω				
(11 to 32.99999) M Ω	3.2 k Ω				
(33 to 109.9999) M Ω	33 k Ω				
(110 to 329.9999) M Ω	0.2 M Ω				
(330 to 1100) M Ω	1.3 M Ω				



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Electrical	AC Voltage - Source	1.0 to 32.999 mV		AN-SOP-CL01:2020	P
		(10 to 45) Hz	31 μ V		
		(> 0.045 to 20) kHz	24 μ V		
		(> 20 to 50) kHz	26 μ V		
		(> 50 to 100) kHz	36 μ V		
		(> 100 to 500) kHz	67 μ V		
		33 to 329.999 mV		AN-SOP-CL01:2020	P
		(10 to 45) Hz	0.12 mV		
		(> 0.045 to 10) kHz	39 μ V		
		(10 to 20) kHz	41 μ V		
		(> 20 to 50) kHz	61 μ V		
		(> 50 to 100) kHz	0.09 mV		
		0.33 to 3.29999 V		AN-SOP-CL01:2020	P
		(10 to 45) Hz	1 mV		
		(> 0.045 to 20) kHz	0.3 mV		
		(> 20 to 50) kHz	1 mV		
		3.3 to 32.9999 V		AN-SOP-CL01:2020	P
		(10 to 45) Hz	10 mV		
		(> 0.045 to 50) kHz	4 mV		
		33 to 329.999 V		AN-SOP-CL01:2020	P
		(0.045 to 1) kHz	0.04 V		
		(> 1 to 10) kHz	0.03 V		
		(> 10 to 20) kHz	0.04 V		
		(> 20 to 50) kHz	0.07 V		
(> 50 to 100) kHz	0.19 V				



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Electrical	AC Voltage - Source	330 to 1020 V		AN-SOP-CL01:2020	P	
		(0.045 to 1) kHz	0.25 V			
		(> 1 to 10) kHz	0.21 V			
	AC Current - Source	29 to 329.99 µA		AN-SOP-CL01:2020	P	
		(10 to 20) Hz	0.27µA			
		(> 0.020 to 1) kHz	0.22 µA			
		(> 1 to 5) kHz	0.28 µA			
		(> 5 to 10) kHz	0.33 µA			
		(> 10 to 30) kHz	2.1 µA			
		0.33 to 3.29999 mA		AN-SOP-CL01:2020	P	
		(10 to 20) Hz	2.2 µA			
		(> 0.020 to 5) kHz	2.1 µA			
		3.3 to 32.9999 mA		AN-SOP-CL01:2020	P	
		(10 to 20) Hz	22 µA			
		(> 0.020 to 5) kHz	21 µA			
		(5 to 10) kHz	23 µA			
		33 to 329.999 mA		AN-SOP-CL01:2020	P	
		(0.010 to 5) kHz	0.21 mA			
		(> 5 to 10) kHz	0.23 mA			
		0.33 to 1.09999 A		AN-SOP-CL01:2020	P	
		(0.010 to 1) kHz	2.1 mA			
	(> 1 to 5) kHz	2.2 mA				
			(> 5 to 10) kHz	7.4 mA		



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Electrical	AC Current - Source	1.1 to 2.99999 A		AN-SOP-CL01:2020	P
		(10 to 45) Hz	2.3 mA		
		(> 0.045 to 5) kHz	2.0 mA		
		(> 5 to 10) kHz	10 mA		
		3 A to 10.9999 A		AN-SOP-CL01:2020	P
		(0.045 to 5) kHz	0.02 A		
		11 A to 20.5 A		AN-SOP-CL01:2020	P
		(0.045 to 1) kHz	0.02 A		
	(> 1 to 5) kHz	0.06 A			
	Capacitance Source	(0.22 to 3.2999) nF	0.18 nF	AN-SOP-CL01:2020	P
		(3.3 to 109.999) nF	0.23 nF		
		(110 to 329.999) nF	0.7 nF		
		(0.33 to 1.09999) µF	1.9 nF		
		(1.1 to 3.29999) µF	6.5 nF		
		(3.3 to 10.9999) µF	23 nF		
		(11 to 32.9999) µF	0.09 µF		
		(33 to 109.999) µF	0.20 µF		
		(110 to 329.999) µF	0.39 µF		
		(0.33 to 1.09999) mF	2.3 µF		
		(1.1 to 3.29999) mF	20 µF		
		(3.3 to 10.9999) mF	0.02 mF		
(11 to 32.9999) mF		0.20 mF			
(33 to 110) mF	2.0 mF				
Frequency - Source	(0.01 to 120) Hz	0.002 Hz	AN-SOP-CL01:2020	P	
	(>0.120 to 1.2) kHz	0.02 Hz			
	(>1.2 to 12) kHz	0.04 Hz			
	(>12 to 120) kHz	0.29 Hz			
	(>0.120 to 1.2) MHz	2.9 Hz			
	(>1.2 to 2) MHz	20 Hz			



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Electrical	DC Current / Clamp Meters	(0 to 54.9995) A	0.3 A	AN-SOP-CL01:2020	P	
		(55 to 149.9995) A	0.8 A			
		(150 to 549.995) A	2.8 A			
		(550 to 1025) A	5.1 A			
	AC Current / Clamp Meters	45 to 65 Hz			AN-SOP-CL01:2020	P
		(0 to 54.9995) A	0.3 A			
		(55 to 149.9995) A	0.8 A			
		(150 to 549.995) A	2.8 A			
	DC Voltage - Measure	(0 to 100) mV	4.4 μ V	AN-SOP-CL01:2020	P	
		(> 0.1 to 10) V	15 μ V			
		(> 10 to 100) V	0.20 mV			
		(> 100 to 1000) V	9 mV			
	DC Current - Measure	(0 to 10) μ A	0.36 nA	AN-SOP-CL01:2020	P	
		(> 10 to 100) μ A	2.2 nA			
		(> 0.1 to 1) mA	22 nA			
		(1 to 10) mA	0.22 μ A	AN-SOP-CL01:2020	P	
		(> 10 to 100) mA	2.4 μ A			
		(> 0.1 to 1) A	55 μ A			
		(> 1 to 10) A	0.86 mA			
	(> 10 to 30) A	2.6 mA				
Resistance - Measure	(0 to 1) Ω	0.021 m Ω	AN-SOP-CL01:2020	P		
	(> 1 to 10) Ω	0.21 m Ω				
	(> 10 to 100) Ω	2.1 m Ω				
	(> 0.1 to 1) k Ω	0.02 Ω				
	(> 1 to 10) k Ω	0.20 Ω				



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Electrical	Resistance - Measure	(> 10 to 100) kΩ	2.0 Ω	AN-SOP-CL01:2020	P	
		(> 0.1 to 1) MΩ	22 Ω			
		(> 1 to 10) MΩ	0.23 kΩ			
		(> 10 to 100) MΩ	5.0 kΩ			
		(> 0.1 to 1) GΩ	0.24 MΩ			
		(> 1 to 10) GΩ	3.3 MΩ			
	AC Voltage - Measure	0 to 10 mV			AN-SOP-CL01:2020	P
		(0.001 to 100) kHz	8 μV			
		(> 100 to 300) kHz	16 μV			
		10 to 100 mV			AN-SOP-CL01:2020	P
		(0.001 to 100) kHz	27 μV			
		(> 100 to 300) kHz	41 μV			
		(> 0.3 to 1) MHz	0.19 mV			
		(> 1 to 2) MHz	0.33 mV			
		(> 2 to 4) MHz	0.42 mV			
		0.1 to 10 V			AN-SOP-CL01:2020	P
		(1 to 2000) Hz	0.50 mV			
		(> 2 to 10) kHz	0.40 mV			
		(> 10 to 30) kHz	0.62 mV			
		(> 30 to 100) kHz	2.5 mV			
		(> 100 to 300) kHz	2.5 mV			
		(> 0.3 to 1) MHz	6.8 mV			
		(> 1 to 4) MHz	14 mV			
		(> 4 to 8) MHz	0.22 V			
		(> 8 to 10) MHz	0.41 V			



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Electrical	AC Voltage – Measure	10 to 100 V		AN-SOP-CL01:2020	P		
		(1 to 2000) Hz	8.6 mV				
		(> 2 to 10) kHz	4.9 mV				
		(> 10 to 30) kHz	8.5 mV				
		(> 30 to 100) kHz	11 mV				
		(> 100 to 300) kHz	0.03 V				
		(> 0.3 to 1) MHz	0.35 V				
		100 to 1000 V					
		(1 to 2000) Hz	0.06 V				
		(> 2 to 30) kHz	0.05 V				
		(> 30 to 100) kHz	0.32 V				
		AC Current - Measure	0 to 10 µA			AN-SOP-CL01:2020	P
	(0.01 to 30) kHz		0.023 µA				
	0.010 to 10 mA						
	(1 to 2000) Hz		1.8 µA				
	(> 2 to 10) kHz		1.3 µA				
	(> 10 to 100) kHz		3.9 µA				
	0.010 to 100 mA						
	(1 to 2000) Hz		16 µA				
	(> 2 to 10) kHz		13 µA				
	(> 10 to 30) kHz		20 µA				
	0.1 to 1 A		AN-SOP-CL01:2020	P			
	(1 to 2000) Hz				0.2 mA		
	(> 2 to 10) kHz	0.4 mA					
(> 10 to 30) kHz	1.2 mA						
1 to 10 A							
(10 to 2000) Hz	1.8 mA						
(> 2 to 10) kHz	4.2 mA						



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Electrical	AC Current - Measure	10 to 30 A		AN-SOP-CL01:2020	P
		(10 to 2000) Hz	3.0 mA		
		(> 2 to 10) kHz	5.3 mA		
	Capacitance - Measure	(0 to 1) nF	0.2 nF	AN-SOP-CL01:2020	P
		(> 1 to 10) nF	0.4 nF		
		(> 10 to 100) nF	2.6 nF		
		(> 0.1 to 1) μF	21 nF		
		(> 1 to 10) μF	0.2 μF		
		(> 10 to 100) μF	2 μF		
		(> 0.1 to 1) mF	20 μF		
		(> 1 to 10) mF	0.2 mF		
		(> 10 to 100) mF	2 mF		
	Frequency - Measure	(1 to 10) Hz	3.1 μHz	AN-SOP-CL01:2020	P
		(> 0.010 to 1) kHz	0.2 mHz		
		(> 1 to 10) kHz	2.2 mHz		
		(> 10 to 100) kHz	21 mHz		
		(> 0.1 to 1) MHz	0.2 Hz		
		(> 1 to 10) MHz	2.1 Hz		
		(> 10 to 100) MHz	21 Hz		
	DC Power - Source	(0 to 20.9) kW	0.48 %	AN-SOP-CL01:2020	P
		(> 20.9 to 1000) kW	0.50 %		
	AC Power - Source	45 Hz to 65 Hz, PF=1		AN-SOP-CL01:2020	P
		(0 to 20.9) kW	0.83 %		
		(> 20.9 to 1000) kW	0.51 %		
	Resistance Meters	Less than 50 V		AN-SOP-CL01:2020	P
		(0.01 to 10) Ω	0.10 Ω		
		(> 10 to 100) Ω	0.23 Ω		
		(> 0.1 to 1) kΩ	1.0 Ω		
(> 1 to 10) kΩ		4.9 Ω			
(> 10 to 100) kΩ		26 Ω			



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Electrical	Resistance Meters	50 V to 5 kV		AN-SOP-CL01:2020	P
		(1 to 10) MΩ	1.5 mΩ/Ω		
		(> 10 to 100) MΩ	1.8 mΩ/Ω		
		(> 0.1 to 1) GΩ	6.5 mΩ/Ω		
		(> 1 to 10) GΩ	14 mΩ/Ω		
		(> 10 to 100) GΩ	44 mΩ/Ω		
		(> 0.1 to 1) TΩ	55 mΩ/Ω		
	Leakage Current	(0.1 to 30) mA	0.19 mA	AN-SOP-CL01:2020	P
	RCD Trip Current	(0 to 3) A	16 mA	AN-SOP-CL01:2020	P
	<ul style="list-style-type: none"> • Loop Impedance • Line Impedance • Ground Bond Resistance 	(35 to 500) mΩ	6 mΩ	AN-SOP-CL01:2020	P
		(1 to 50) Ω	0.15 Ω		
		(> 0.05 to 1.8) kΩ	5.1 Ω		
	RCD Trip Time	(10 to 5000) ms	0.58 ms	AN-SOP-CL01:2020	P
	Oscilloscope	Vertical Deflection		AN-SOP-CL01:2020	P
		1 mV to 6.6 Vp-p (50 Ω Load)	2.0 %		
		1 mV to 130 Vp-p (1 MΩ Load)	0.3 %		
		Horizontal Deflection			
1 ms to 20 ms		0.38 ms			
50 ms to 5 s		0.85 ms			
Band Width					
(2 to 500) MHz	1.2 MHz				



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Electrical	Thermocouple - Simulation (Source & Measure)	B Type		AN-SOP-CL01:2020	P
		(600 to 800) °C	0.75 °C		
		(> 800 to 1820) °C	0.34 °C		
		C Type			
		(0 to 1000) °C	0.57 °C		
		(> 1000 to 1800) °C	1.9 °C		
		(> 1800 to 2316) °C	1.4 °C		
		E Type			
		(-250 to -100) °C	0.82 °C		
		(> -100 to 1000) °C	0.44 °C		
		J Type			
		(-210 to -100) °C	0.52 °C		
		(> -100 to 760) °C	0.40 °C		
		(> 760 to 1200) °C	0.47 °C		
		K Type			
		(-200 to -100) °C	0.61 °C		
		(> -100 to 120) °C	0.42 °C		
		(> 120 to 1000) °C	0.51 °C		
		(> 1000 to 1372) °C	1.7 °C		
		L Type			
		(-200 to -100) °C	0.66 °C		
		(> -100 to 800) °C	0.51 °C		
		(> 800 to 900) °C	0.41 °C		
		N Type			
		(-200 to -100) °C	1.7 °C		
		(> -100 to 1300) °C	0.52 °C		
		R Type			
		(0 to 250) °C	2.0 °C		
(> 250 to 1767) °C	1.7 °C				



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Electrical	Thermocouple - Simulation (Source & Measure)	S Type		AN-SOP-CL01:2020	P
		(0 to 1767) °C	1.8 °C		
		T Type			
		(-250 to -150) °C	1.1 °C		
		(> -150 to 400) °C	0.37 °C		
		U Type			
	RTD - Simulation	Pt 385, 100 Ω		AN-SOP-CL01:2020	P
		(-200 to 100) °C	0.10 °C		
		(> 100 to 630) °C	0.20 °C		
		(> 630 to 800) °C	0.40 °C		
		Pt 3926, 100 Ω			
		(-200 to 100) °C	0.10 °C		
	RTD - Simulation (Source)	Pt 3916, 100 Ω		AN-SOP-CL01:2020	P
		(-200 to -190) °C	0.38 °C		
		(> -190 to 260) °C	0.10 °C		
		(> 260 to 600) °C	0.20 °C		
		(> 600 to 630) °C	0.36 °C		
		Pt 385, 200 Ω			
		(-200 to 260) °C	0.10 °C		
		(> 260 to 630) °C	0.24 °C		
Pt 385, 500 Ω					
(-200 to 260) °C		0.10 °C			
(> 260 to 630) °C		0.18 °C			
Pt 385, 1000 Ω					
(-200 to 600) °C		0.10 °C			
(> 600 to 630) °C		0.36 °C			



Accreditation Scope

Anaum International Electronics LLC, NAL 157
Calibration Laboratory, (ISO/IEC 17025:2017)

ICAD1, Musaffah - M41, Abu Dhabi, UAE

Issue Date: 24-03-2024
Issue No: 03

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Calibration Field/ Quantity/ Property	Measurand / Equipment	Measurement Range	Expanded Measurement Uncertainty (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Electrical	RTD - Simulation (Source)	PtNi 385, 120 Ω (Ni120)		AN-SOP-CL01:2020	P
		(-80 to 100) $^{\circ}\text{C}$	0.12 $^{\circ}\text{C}$		
		(> 100 to 260) $^{\circ}\text{C}$	0.22 $^{\circ}\text{C}$		
		Cu 427, 10 Ω			
		(-100 to 260) $^{\circ}\text{C}$	0.46 $^{\circ}\text{C}$		
	(-200 to 600) $^{\circ}\text{C}$	0.12 $^{\circ}\text{C}$			
	RTD - Simulation (Measure)	(-200 to 600) $^{\circ}\text{C}$	0.07 $^{\circ}\text{C}$	AN-SOP-CL01:2020	P
Mass	Conventional Mass	(1 to 500) mg	0.4 mg	AN-SOP-CL10:2020	P
		(1 to 410) g	2 mg		
		(0.5 to 5) kg	0.09 g		
		10 kg	0.17 g		
		20 kg	0.65 g		
Weight	Weighing Balances	(0.5 to 10) kg	23 mg	AN-SOP-CL09:2020	P/S
		(> 10 to 32) kg	0.6 g		
		(> 32 to 1000) kg	(0.6 to 200) g		
END					