

Accreditation Scope

ADYARD Abu Dhabi LLC, NAL 128
Calibration Laboratory (ISO/IEC 17025:2017)

Mussafah, Abu Dhabi, UAE

Issue Date: 01-04-2021

Expiry Date: 09-09-2021

Issue No: 03

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
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Electrical	DC Voltage	0 to 220 mV	(3.8×10^{-2}) mV	In house method (Lab-PR-020-3: 2019)	P
		> 220 mV to 2.2 V	(4.0×10^{-5}) V		
		> 2.2 to 11 V	(1.0×10^{-4}) V		
		> 11 to 22 V	(2.0×10^{-3}) V		
		> 22 to 220 V	(6.4×10^{-2}) V		
		> 220 to 1100 V	(2.9×10^{-2}) V		
	AC Voltage (10 Hz to 1 Mz)	0 to 220 mV	(5.0×10^{-2}) mV	In house method (Lab-PR-020-3: 2019)	P
		> 220 mV to 2.2 V	(1.6×10^{-4}) V		
		> 2.2 to 22 V	(1.4×10^{-3}) V		
		> 22 to 220 V	(1.6×10^{-2}) V		
	AC Voltage 10 Hz to 100 kHz	> 220 to 1100 V	(3.0×10^{-1}) V		
	DC Current	0 to 220 μ A	(1.1×10^{-1}) μ A	In house method (Lab-PR-020-3: 2019)	P
		> 220 μ A to 2.2 mA	(1.0×10^{-3}) mA		
		> 2.2 to 22 mA	(1.2×10^{-2}) mA		
> 22 to 220 mA		(1.7×10^{-1}) mA			
> 220 mA to 2.2 A		(5.3×10^{-3}) A			
>2.2 to 20 A		(8.0×10^{-3}) A			
	> 50 A to 1000 A	0.3% A	In house method (Lab-PR-020-3: 2019)	P	

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Electrical	AC Current (10 Hz to 1 kHz)	0 to 220 μ A	$(4.4 \times 10^{-1}) \mu$ A	In house method (Lab-PR-020-3: 2019)	P
		> 220 μ A to 2.2 mA	(4.0×10^{-3}) mA		
		> 2.2 to 22 mA	(5.2×10^{-2}) mA		
		> 22 to 220 mA	(9.2×10^{-1}) mA		
		> 220 mA to 2.2 A	(1.1×10^{-2}) A		
	AC Current (45 Hz to 65 Hz)	>2.2 to 20 A	(1.4×10^{-2}) A	In house method (Lab-PR-020-3: 2019)	P
	AC Current (10 Hz to 40 kHz)	> 50 A to 1000 A	0.4% A		
	Resistance	1 Ω	$(7.1 \times 10^{-3}) \Omega$		
		1.9 Ω	$(7.1 \times 10^{-3}) \Omega$		
		10 Ω	$(7.1 \times 10^{-3}) \Omega$		
		19 Ω	$(9.7 \times 10^{-3}) \Omega$		
		100 Ω	$(9.7 \times 10^{-3}) \Omega$		
		190 Ω	(1.0×10^{-4}) K Ω		
		1 k Ω	(1.0×10^{-4}) K Ω		
		1.9 k Ω	(8.0×10^{-4}) K Ω		
		10 k Ω	(8.0×10^{-4}) K Ω		
		100 k Ω	(8.5×10^{-3}) K Ω		
		190 k Ω	(1.0×10^{-4}) M Ω		
		1 M Ω	(1.0×10^{-4}) M Ω		
		1.9 M Ω	(1.3×10^{-3}) M Ω		
10 M Ω		(1.3×10^{-3}) M Ω			
19 M Ω	(6.7×10^{-2}) M Ω				
100 M Ω	(6.7×10^{-2}) M Ω				
100 k Ω	(8.5×10^{-3}) K Ω				

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Electrical	Frequency @1 V	0 to 10 Hz	(2.5 x 10 ⁻³) Hz	In house method (Lab-PR-020-3: 2019)	P
		> 10 Hz to 100 Hz	(2.3 x 10 ⁻²) Hz		
		> 100 Hz to 1 kHz	(2.3 x 10 ⁻⁴) kHz		
		> 1 kHz to 10 kHz	(2.3 x 10 ⁻³) kHz		
		> 10 kHz to 100 kHz	(2.4 x 10 ⁻²) kHz		
		> 100 kHz to 1 MHz	(1.4 x 10 ⁻¹) kHz		
Pressure	Pressure Gauge (Hydraulic)	(6 to 60) bar (60 to 1200) bar	(0.01 % x I + 0.02) bar (0.03 % x I + 0.4) bar	In house method (Lab-PR-019-2:2019)	P
	Pressure Gauge (Vacuum)	(-0.8 to 0.0) bar	0.1 bar		
	Pressure Gauge (Pneumatic)	(0.0 to 20.0) bar	0.1 bar		
Temperature	RTD sensors with Indicator	(-20 to 320) °C	0.2 °C	In house method (Lab- PR-022-2:2019)	P
END					

I is the measured value in the standard measurement unit.