

Accreditation Scope

Veetech Instrumentation and Control Service L.L.C, NAL 086
Calibration Laboratory, (ISO/IEC 17025:2017)

Musaffah, Abu Dhabi, UAE

Issue Date: 08-08-2021

Expiry Date: 07-08-2024

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)
Dimensional	Vernier Caliper (outside & inside side)	(0 to 300) mm	30 μ m	WI/043:2021	P
	Outside Micrometer	(0 to 25) mm	2 μ m	WI/044:2021	
	Dial Gauge	(0 to 25) mm	5 μ m	WI/064:2021	
Temperature	IR Thermometer	(50 to 500) $^{\circ}$ C	(3 to 10) $^{\circ}$ C	WI/042:2021	P
	Thermometer temperature sensors Temperature chart recorders	(-20 to 125) $^{\circ}$ C	0.26 $^{\circ}$ C	WI/040:2021	
		(> 125 to 600) $^{\circ}$ C	1.1 $^{\circ}$ C		
Relative humidity / Air temperature	Thermo hygrometer Humidity sensors Humidity transducers	7 % to 95 % RH	1 % RH	WI/065:2021	P
		18 $^{\circ}$ C to 23 $^{\circ}$ C	0.4 $^{\circ}$ C		
Pressure	Pressure Gauge, Transducers, Chart recorder, Transmitter	(1 to 1000) bar	0.031 % rdg	WI/002:2021	P
Mass	Weighing Balance	(1 to 20) g	0.18 mg	WI/041:2021	S
		(> 20 to 200) g	1.1 mg		
		(> 0.2 to 1) kg	7.5 mg		
		(> 1 to 5) kg	0.03 g		
		(> 5 to 10) kg	64 g		
		(> 10 to 600) kg	81 g		
Light	Lux Meters	(50 to 5000) lux	(10 to 1050) lux	WI/052:2021	P

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Rotational Speed	Tachometer (Non-Contact type)	(15 – 100) rpm	5%	WI/047:2021	P
		(>100 – 1000) rpm	1%		
		(> 1000 – 60000) rpm	0.3%		
Torque	Torque Wrench Torque Transducer Torque Screwdriver	(2 to 1500) N.m	3.5 %	WI/009:2021	P
Electrical (Source)	DC Voltage	(1 to < 330) mV	0.019 %	WI/027:2021	P
		(0.33 to < 3.3) V	0.022 %		
		(3.3 to < 33) V	0.021 %		
		33 to < 102) V	0.06 %		
		(102 to < 330) V	0.06 %		
		(330 to 1020) V	0.06 %		
	DC Current	(1 to < 330) μ A	0.12 %		
		(0.33 to < 3.3) mA	0.20 %		
		(3.3 to < 33) mA	0.065 %		
		(33 to < 333) mA	0.088 %		
		(0.333 to < 1.1) A	0.21 %		
		(1.1 to < 3) A	0.24 %		
		(3 to < 11) A	0.33 %		

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Electrical (Source)	AC Voltage	@ 45 to 65 Hz		WI/027:2021	P
		(1 to < 33) mV	1.2 %		
		(33 to < 330) mV	0.20 %		
		(0.33 to < 3.3) V	0.12 %		
		(3.3 to < 33) V	0.13 %		
		(33 to < 102) V	0.19 %		
		(102 to < 330) V	0.17 %		
		(330 to 1020) V	0.19 %		
		@ > 65 Hz to 1 kHz			
		(1 to < 33) mV	1.3 %		
		(33 to < 330) mV	0.21 %		
		(0.33 to < 3.3) V	0.14 %		
		(3.3 to < 33) V	0.15 %		
		(33 to < 102) V	0.20 %		
	(102 to < 330) V	0.18 %			
	(330 to 1020) V	0.20 %			
	AC Current	@ 45 to 65 Hz		WI/027:2021	P
		(29 to < 330) μ A	0.56 %		
		(0.33 to < 3.3) mA	0.34 %		
		(3.3 to < 33) mA	0.19 %		
(33 to < 330) mA		0.19 %			
(0.33 to < 1.1) A		0.27 %			
(1.1 to < 3) A		0.21 %			
(3 to < 11) A	0.37 %				

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Electrical (Source)	AC Current	@ > 65 Hz to 1 kHz		WI/027:2021	P
		(29 to < 330) μ A	0.57 %		
		(0.33 to < 3.3) mA	0.35 %		
		(3.3 to < 33) mA	0.26 %		
		(33 to < 330) mA	0.26 %		
		(0.33 to < 1.1) A	0.42 %		
		(1.1 to < 3) A	0.38 %		
	(3 to < 11) A	0.54 %			
	AC Current (Clamp meters)	@ 45 to 60 Hz		WI/016:2021	P
		(1 to 100) A	0.95 A		
		(> 100 to 500) A	4.4 A		
		(> 500 to 1000) A	7.5 A		
	DC Current (Clamp meters)	(1 to 100) A	0.76 A	WI/016:2021	P
		(> 100 to 500) A	3.5 A		
		(> 500 to 1000) A	6.3 A		
	4-Wire Resistance	1 Ω	1.2 %	WI/027:2021	P
		1.9 Ω	0.58 %		
		10 Ω	0.18 %		
		19 Ω	0.12 %		
		100 Ω	0.074 %		
		190 Ω	0.055 %		

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Electrical (Source)	4-Wire Resistance	1 k Ω	0.065 %	WI/027:2021	P
		1.9 k Ω	0.042 %		
		10 k Ω	0.065 %		
		19 k Ω	0.045 %		
		100 k Ω	0.073 %		
		190 k Ω	0.057 %		
Electrical (Measure)	AC Voltage @ 50 Hz	(1 to 300) V	1.2 V	WI/066:2021	P
	AC Current @ 50 Hz	(1 to 10) A	17 mA		
		(1 to 100) A	2.5 A		
	DC voltage	(1 to 300) V	1.5 V		
	DC Current	(1 to 10) A	7.8 mA		
	Resistance	(10 to 100) Ω	0.004 Ω		
		(> 0.1 to 1) k Ω	0.022 k Ω		
		(> 1 to 10) k Ω	0.08 k Ω		
(> 10 to 100) k Ω		0.9 k Ω			
END					