



ACCREDITATION CERTIFICATE

LB-CAL-054

Emirates International Accreditation Centre

has accredited

DUBAI ELECTRICITY AND WATER AUTHORITY PJSC

Umm-Hurair, Near Karama General Post Office

Dubai-United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
to undertake the calibration in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity
period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 28-06-2022 to 09-08-2023

Initial Accreditation Date: 10/08/2017




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

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Dubai Electricity and Water Authority PJSC

Umm-Hurair, Near Karama General Post Office

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Date: 28-06-2022

Valid to: 09-08-2023

Accreditation History			
Scope	Issue No.	Details	Date
Electrical	4	Reissued due to change the laboratory's name (was formerly known as Dewa Metrology Laboratory)	28-06-2022
Electrical	3	Renewal accreditation from EIAC	08-09-2020
Electrical	2	Extension in scope and first issuance under the name of EIAC (which was formerly known as DAC)	21/10/2019

Accreditation Scope

Electrical Calibration

LB-CAL-054

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Dubai-nited Arab Emirates

Issue no.: 04

Date: 28-06-2022

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
DC Voltage	MMulti Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/S OP 12 <i>U: Measured Voltage value</i>	Up to 329.9999 mV	$16 \times 10^{-6} U + 0.79 \text{ uV}$	DEWA Metrology Laboratory
		< 330 mV to 3.3 V	$8.4 \times 10^{-6} U + 1.9 \text{ uV}$	
		< 3.3 V to 33 V	$9.2 \times 10^{-6} U + 19 \text{ uV}$	
		< 33 V to 330 V	$14 \times 10^{-6} U + 0.13 \text{ mV}$	
		< 330 V to 1000 V	$14 \times 10^{-6} U + 1.4 \text{ mV}$	
AC Voltage	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/S OP 12 <i>U: Measured Voltage value</i>	Up to 33 mV		
		45 Hz to 10 kHz	$0.11 \times 10^{-3} U + 4.8 \text{ uV}$	
		< 10 kHz to 20 kHz	$0.15 \times 10^{-3} U + 4.8 \text{ uV}$	
		< 20 kHz to 50 kHz	$0.77 \times 10^{-3} U + 4.8 \text{ uV}$	
		< 33 mV to 330 mV		
		45 Hz to 10 kHz	$0.11 \times 10^{-3} U + 6.3 \text{ uV}$	
		< 10 kHz to 20 kHz	$0.12 \times 10^{-3} U + 6.3 \text{ uV}$	
		< 20 kHz to 50 kHz	$0.27 \times 10^{-3} U + 6.3 \text{ uV}$	

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AC Voltage	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>U: Measured Voltage value</i>	<0.33 V to 3.3 V		DEWA Metrology Laboratory
		45 Hz to 10 kHz	0.12x10 ⁻³ U + 47 uV	
		< 10 kHz to 20 kHz	0.15x10 ⁻³ U + 47 uV	
		< 20 kHz to 50 kHz	0.23x10 ⁻³ U + 39 uV	
		< 3.3 V to 33 V		
		45 Hz to 10 kHz	0.12x10 ⁻³ U + 0.47 mV	
		< 10 kHz to 20 kHz	0.19x10 ⁻³ U + 0.47 mV	
		< 20 kHz to 50 kHz	0.27x10 ⁻³ U + 0.47 mV	
		< 33 V to 330 V		
		45 Hz to 10 kHz	0.16x10 ⁻³ U + 4.7 mV	
		< 10 kHz to 20 kHz	0.19x10 ⁻³ U + 4.7 mV	
		< 20 kHz to 50 kHz	0.23x10 ⁻³ U + 4.7 mV	
		< 330 V to 1020 V		
		45 Hz to 1 kHz	0.23x10 ⁻³ U + 8.8 mV	
		< 1 kHz to 5 kHz	0.19x10 ⁻³ U + 9.0 mV	
		< 5 kHz to 10 kHz	0.23x10 ⁻³ U + 8.8 mV	

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DC Current	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/S OP 12 <i>I: Measured Current value</i>	Up to 330 uA	$0.12 \times 10^{-3} / + 0.02 \text{ uA}$	DEWA Metrology Laboratory
		< 0.33 mA to 3.3 mA	$1.2 \times 10^{-6} / + 12 \text{ uA}$	
		< 3.3 mA to 33 mA	$1.1 \times 10^{-6} / + 0.12 \text{ mA}$	
		< 33 mA to 330 mA	$1.1 \times 10^{-6} / + 1.2 \text{ mA}$	
		< 330 mA to 1.1 A	$1.9 \times 10^{-6} / + 12 \text{ mA}$	
		< 1.1 A to 3 A	$16 \times 10^{-6} / + 12 \text{ mA}$	
		< 3 A to 11 A	$10 \times 10^{-6} / + 0.12 \text{ A}$	
		< 11 A to 20 A	$85 \times 10^{-6} / + 0.12 \text{ A}$	
AC Current	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/S OP 12 <i>I: Measured Current value</i>	29 uA to 330 uA		DEWA Metrology Laboratory
		45 Hz to 1 KHz	$0.97 \times 10^{-3} / + 0.08 \text{ uA}$	
		1 KHz to 5 KHz	$2.3 \times 10^{-3} / + 0.12 \text{ uA}$	
		5 KHz to 10 KHz	$6.2 \times 10^{-3} / + 0.16 \text{ uA}$	

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AC Current	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>I: Measured Current value</i>	< 0.33 mA to 3.3 mA		DEWA Metrology Laboratory
		45 Hz to 1 KHz	0.78×10 ⁻³ / + 0.12 uA	
		1 KHz to 5 KHz	1.6×10 ⁻³ / + 0.16 uA	
		5 KHz to 10 KHz	3.9×10 ⁻³ / + 0.23 uA	
		< 3.3 mA to 33 mA		
		45 Hz to 1 KHz	0.31×10 ⁻³ / + 1.6 uA	
		1 KHz to 5 KHz	0.62×10 ⁻³ / + 1.6 uA	
		5 KHz to 10 KHz	1.6×10 ⁻³ / + 2.3 uA	
		45 Hz to 1 KHz	0.31×10 ⁻³ / + 16 uA	
		< 33 mA to 330 mA		
		1 KHz to 5 KHz	0.78×10 ⁻³ / + 39 uA	
		5 KHz to 10 KHz	1.6×10 ⁻³ / + 78 uA	
		< 0.33 A to 1.1 A		
		45 Hz to 1 KHz	0.39×10 ⁻³ / + 78 uA	
		1 KHz to 5 KHz	4.7×10 ⁻³ / + 0.78 mA	
		5 KHz to 10 KHz	19×10 ⁻³ / + 3.9 mA	

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AC Current	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>I: Measured Current value</i>	< 1.1 A to 3 A		DEWA Metrology Laboratory
		45 Hz to 1 KHz	0.47×10 ⁻³ / + 78 uA	
		1 KHz to 5 KHz	4.7×10 ⁻³ / + 0.78 mA	
		5 KHz to 10 KHz	19×10 ⁻³ / + 3.9 mA	
		< 3 A to 11 A		
		45 Hz to 100 Hz	0.47×10 ⁻³ / + 1.6 mA	
		100 Hz to 1 KHz	0.78×10 ⁻³ / + 1.6 mA	
		1 KHz to 5 KHz	23×10 ⁻³ / + 1.6 mA	
		< 11 A to 20.5 A		
		45 Hz to 100 Hz	0.93×10 ⁻³ / + 3.9 mA	
		100 Hz to 1 KHz	1.2×10 ⁻³ / + 3.9 mA	
		1 KHz to 5 KHz	23×10 ⁻³ / + 3.9 mA	

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Temperature Simulation	1- Multi Product Calibrator (Fluke-5520A, TC-K type) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 2- Multi Product Calibrator (Fluke-5520A, TC-J type) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12	-200 °C to -100 °C	0.33 °C	DEWA Metrology Laboratory
		-100 °C to -25 °C	0.18 °C	
		-25 °C to 120 °C	0.16 °C	
		120 °C to 1000 °C	0.26 °C	
		1000 °C to 1372 °C	0.4 °C	
		-200 °C to -100 °C	0.27 °C	
		-100 °C to -25 °C	0.16 °C	
		-25 °C to 120 °C	0.14 °C	
		120 °C to 1000 °C	0.17 °C	
		1000 °C to 1372 °C	0.23 °C	
Capacitance	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>C: Measured Capacitance value</i>	1.1 nF to 3.3 nF	$3.9 \times 10^{-3} C + 7.8 \text{ pF}$	DEWA Metrology Laboratory
		< 3.3 nF to 11 nF	$1.9 \times 10^{-3} C + 78 \text{ pF}$	
		< 11 nF to 33 nF	$1.9 \times 10^{-3} C + 78 \text{ pF}$	
		< 33 nF to 110 nF	$1.9 \times 10^{-3} C + 78 \text{ pF}$	

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Capacitance	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>C: Measured Capacitance value</i>	< 110 nF to 330 nF	$1.9 \times 10^{-3} C + 0.23 \text{ nF}$	DEWA Metrology Laboratory
		< 0.33 uF to 1.1 uF	$1.9 \times 10^{-3} C + 0.78 \text{ nF}$	
		< 1.1 uF to 3.3 uF	$1.9 \times 10^{-3} C + 2.3 \text{ nF}$	
		< 3.3 uF to 11 uF	$1.9 \times 10^{-3} C + 7.8 \text{ nF}$	
		< 11 uF to 110 uF	$3.5 \times 10^{-3} C + 78 \text{ nF}$	
		< 110 uF to 330 uF	$3.5 \times 10^{-3} C + 0.23 \text{ uF}$	
		< 0.33 mF to 1.1 mF	$3.5 \times 10^{-3} C + 0.78 \text{ uF}$	
		< 1.1 mF to 3.3 mF	$3.5 \times 10^{-3} C + 2.3 \text{ uF}$	
		< 3.3 mF to 11 mF	$3.5 \times 10^{-3} C + 7.8 \text{ uF}$	
		< 11 mF to 33 mF	$5.8 \times 10^{-3} C + 23 \text{ uF}$	
		< 33 mF to 110 mF	$8.5 \times 10^{-3} C + 78 \text{ uF}$	

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Resistance	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 R: Measured Resistance value	0 to 11 Ω	$31 \times 10^{-6} R + 7.8 \text{ m}\Omega$	DEWA Metrology Laboratory
		< 11 Ω to 33 Ω	$23 \times 10^{-6} R + 12 \text{ m}\Omega$	
		< 33 Ω to 110 Ω	$22 \times 10^{-6} R + 12 \text{ m}\Omega$	
		< 110 Ω to 330 Ω	$22 \times 10^{-6} R + 16 \text{ m}\Omega$	
		< 330 Ω to 1.1 k Ω	$22 \times 10^{-6} R + 16 \text{ m}\Omega$	
		< 1.1 k Ω to 3.3 k Ω	$22 \times 10^{-6} R + 0.16 \Omega$	
		< 3.3 k Ω to 11 k Ω	$22 \times 10^{-6} R + 78 \text{ m}\Omega$	
		< 11 k Ω to 33 k Ω	$22 \times 10^{-6} R + 0.78 \Omega$	
		< 33 k Ω to 110 k Ω	$22 \times 10^{-6} R + 0.78 \Omega$	
		< 110 k Ω to 330 k Ω	$25 \times 10^{-6} R + 7.8 \Omega$	
		< 330 k Ω to 1.1 M Ω	$25 \times 10^{-6} R + 7.8 \Omega$	
		< 1.1 M Ω to 3.3 M Ω	$47 \times 10^{-6} R + 0.12 \text{ k}\Omega$	

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Resistance	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>R: Measured Resistance value</i>	< 3.3 MΩ to 11 MΩ	$0.10 \times 10^{-3} R + 0.19 \text{ k}\Omega$	DEWA Metrology Laboratory
		< 11 MΩ to 33 MΩ	$0.19 \times 10^{-3} R + 1.9 \text{ k}\Omega$	
		< 33 MΩ to 110 MΩ	$0.39 \times 10^{-3} R + 2.3 \text{ k}\Omega$	
		< 110 MΩ to 330 MΩ	$2.3 \times 10^{-3} R + 78 \text{ k}\Omega$	
		< 330 MΩ to 1100 MΩ	$9.5 \times 10^{-3} R + 63 \text{ k}\Omega$	
Frequency	Multi Product Calibrator (Fluke-5520A) Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>f: Measured Frequency value</i>	0.01 Hz to 120 Hz	$0.02 \times 10^{-6} f + 12 \text{ mHz}$	DEWA Metrology Laboratory
		< 120.0 Hz to 1.2 kHz	$0.02 \times 10^{-6} f + 0.12 \text{ Hz}$	
		< 1.2 kHz to 12 kHz	$0.02 \times 10^{-6} f + 1.2 \text{ Hz}$	
		< 12 kHz to 120 kHz	$0.02 \times 10^{-6} f + 12 \text{ Hz}$	
		< 120 kHz to 1200 kHz	$0.02 \times 10^{-6} f + 0.12 \text{ kHz}$	
		< 1.2 MHz to 2 MHz	$5.2 \times 10^{-9} f + 1.2 \text{ kHz}$	

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DC Current	Multi Product Calibrator Fluke-5522A & Current Coil Fluke-5500A/Coil Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>I: Measured Current value</i>	10 A to 16.5 A	$5.0 \times 10^{-3} / + 20 \text{ mA}$	DEWA Metrology Laboratory
		16.5 A to 55 A	$5.0 \times 10^{-3} / + 0.14 \text{ A}$	
		55 A to 150 A	$5.0 \times 10^{-3} / + 0.14 \text{ A}$	
		150 A to 550 A	$5.0 \times 10^{-3} / + 0.50 \text{ A}$	
		550 A to 1000 A	$5.0 \times 10^{-3} / + 0.50 \text{ A}$	
AC Current	Multi Product Calibrator Fluke-5522A & Current Coil Fluke-5500A/Coil Calibration Procedure # DP/DAM/W&AR(ML)/SOP 12 <i>(I = Measured Current value)</i>	10 A to 16.5 A	$5.6 \times 10^{-3} / + 30 \text{ mA}$	DEWA Metrology Laboratory
		(45 Hz to 65 Hz)		
		16.5 A to 150 A	$5.6 \times 10^{-3} / + 0.25 \text{ A}$	
		(45 Hz to 65 Hz)		
		150 A to 1000 A	$5.6 \times 10^{-3} / + 0.9 \text{ A}$	
		(45 Hz to 65 Hz)		

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