



ACCREDITATION CERTIFICATE

LB-153-CAL

Dubai Accreditation Department

has accredited

Abhath Weights & Measuring Laboratory

Shed No. 6, Industrial Area 2, Al Qusais

Dubai- United Arab Emirates

In accordance with the requirements of ISO/ IEC 17025: 2005 to undertake the tests
in the field of:

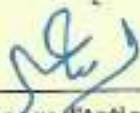
Calibration

For the tasks listed in the attached Scope of Accreditation

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

Validity of Certificate: from 22- 09- 2016 to 21- 09- 2019

Initial Accreditation Date: 22- 09- 2013



Director, Dubai Accreditation Department

SCOPE OF ACCREDITATION
Temperature Calibration

Abhath Weights & Measuring Laboratory

Shed No. 6, Industrial Area 2, Al Qusais

Dubai- United Arab Emirates

Issue No: 02

Issue date: 03- 04- 2017

Accreditation Certificate No: LB-153-CAL

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Glass thermometer	Comparison Method by using Digital Temperature Indicator with Standard RTD	-10 °C to 100 °C	0.15 °C	Permanent Laboratory
Direct Reading Thermometer, (Thermocouples, resistance thermometers) with indicator	Comparison Method by using Standard RTD/Standard Thermocouple/Digital Temperature Indicator	-10 °C to 420 °C	0.26 °C	Permanent Laboratory /Customer premises
		420 °C to 600 °C	3.9 °C	
Temperature liquid bath	Comparison Method by using Standard RTD/Standard Thermocouple/Digital Temperature Indicator	-10 °C to 200 °C	0.88 °C	Permanent Laboratory /Customer premises
Dry block temperature Calibrator	Comparison Method by using Standard RTD/Standard Thermocouple/Digital Temperature Indicator	-10 °C to 420 °C	0.26 °C	Permanent Laboratory /Customer premises
		420 °C to 600 °C	4.7 °C	
Temperature Gauge and dial thermometers	Comparison Method by using Standard RTD/Standard Thermocouple/Digital Temperature Indicator	-10 °C to 420 °C	0.15 °C	Permanent Laboratory /Customer premises
		420 °C to 600 °C	4.9 °C	

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P.O Box: 67, DUBAI- UAE., TEL: 00971-4-3027445, FAX: 00971-4-3362381

Email: dacinfo@mail.dm.ae * web site: <http://www.dac.gov.ae>



SCOPE OF ACCREDITATION Temperature Calibration

Abhath Weights & Measuring Laboratory

Shed No. 6, Industrial Area 2, Al Qusais

Dubai- United Arab Emirates

Issue No: 02

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Chiller/Freezer/Refrigerator (9 point calibration)	Comparison Method by using Digital Temperature Indicator with Standard RTD	-25 °C to 15°C	0.5 °C	Customer premises
Oven / Furnaces (9 point calibration)	Comparison Method by using Standard RTD/Standard Thermocouple/Digital Temperature Indicator	20 °C to 200 °C	0.5 °C	Customer premises
Incubator (9 point calibration)	Comparison Method by using Digital Temperature Indicator with Standard RTD	10 °C to 100 °C	0.5 °C	Customer premises

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SCOPE OF ACCREDITATION Pressure Calibration

Abhath Weights & Measuring Laboratory

Shed No. 6, Industrial Area 2, Al Qusais

Dubai- United Arab Emirates

Issue No: 01

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Accreditation Certificate No: LB-153-CAL

DETAILS OF THE APPLICABLE RANGE OF CALIBRATION AND MEASUREMENT CAPABILITY FOR THE SCOPE OF ACCREDITATION				
Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
pneumatic Pressure (gauge pressure) Pressure Gauge, Vacuum Gauge, Compound Gauge, Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Module, Manometer, Pressure Chart Recorder.	WI/Abhath-P01 Based on DKD-R 6-1 (03-2014)	-0,9 bar to 2,0 bar	2,0 mbar	Laboratory/ Client Premises
		>2,0 bar to 35 bar	0,1 bar	
hydraulic Pressure (gauge pressure) Pressure Gauge, Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch, Pressure Chart Recorder.	WI/Abhath-P02 Based on DKD-R 6-1 (01-2003)	0 bar; 1 bar to 60 bar	0,03 bar	Laboratory
		>60 bar to 700 bar	0,3 bar	
		>700 bar to 1000 bar	0,4 bar	
		>1000 bar to 1400 bar	0,5 bar	

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SCOPE OF ACCREDITATION
Pressure Calibration

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
hydraulic Pressure (gauge pressure) Pressure Gauge, Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch, Pressure Chart Recorder.	WI/Abhath-PO2 Based on DKD-R 6-1 (01-2003)	0 bar to 700 bar	0,3 bar	Client Premises
		>700 bar to 1000 bar	0,4 bar	

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SCOPE OF ACCREDITATION Electrical Calibration

Abhath Weights & Measuring Laboratory

Shed No. 6, Industrial Area 2, Al Qusais

Dubai- United Arab Emirates

Issue No: 02

Issue date: 03- 04- 2017

Accreditation Certificate No: LB-153-CAL

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location

Sourcing

DC Voltage	Direct Method In-house Method (WI/ABHATH-E01)	1 mV to 300 mV	0.53 % to 0.01 %	Laboratory
		0.3 V to 300 V	0.01 %	
		300 V to 1000 V	0.01 %	
AC Voltage (10 Hz - 3 kHz)	Direct Method In-house Method (WI/ABHATH-E01)	10 mV to 300 mV	1.38 % to 0.06 %	Laboratory
		0.3 V to 30 V	0.06 %	
AC Voltage (40 Hz - 3 kHz)	Direct Method In-house Method (WI/ABHATH-E01)	30 V to 300 V	0.06 % to 0.07 %	Laboratory
		300 V to 1000 V	0.07 % to 0.08 %	
DC Current	Direct Method In-house Method (WI/ABHATH-E01)	1 μ A to 300 μ A	1.93 % to 0.03 %	Laboratory
		0.3 mA to 300 mA	0.03 % to 0.02 %	
		0.3 A to 3 A	0.02 % to 0.07 %	

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DC Current	In-house Method (WI/ABHATH-E01)	3 A to 10 A	0.07 %	Laboratory
	Using 10 turns & 50 turns Coil (WI /ABHATH-E05)	10 A to 1000 A	0.58 %	
AC Current (10 Hz - 3 kHz)	Direct Method In-house Method (WI/ABHATH-E01)	10 μ A to 300 μ A	3.6 % to 0.2 %	Laboratory
		0.3 mA to 300 mA	0.20 % to 0.11 %	
		0.3 A to 3 A	0.11 % to 0.14 %	
		3 A to 10 A	0.14 % to 0.29 %	
Ac Current (@ 50Hz)	Using 10 turns & 50 turns Coil (WI /ABHATH-E05)	10 A to 1000 A	0.76 %	Laboratory
Resistance (2-wire)	Direct Method In-house Method (WI/ABHATH-E01)	1 Ω to 100 Ω	1.19 % to 0.05 %	Laboratory
		0.1 k Ω to 1 k Ω	0.05 % to 0.03 %	
		1 k Ω to 10 M Ω	0.03 % to 0.2 %	
		10 M Ω to 100 M Ω	0.2 % to 0.35 %	

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SCOPE OF ACCREDITATION
Electrical Calibration

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Resistance (4-wire)	Direct Method	1 Ω to 100 Ω	1.19 % to 0.05 %	Laboratory
	In-house Method (WI/ABHATH-E01)	0.1 k Ω to 1 k Ω	0.05 % to 0.03 %	
		1 k Ω to 10 M Ω	0.03 % to 0.07 %	
		10 M Ω to 30 M Ω	0.07 % to 0.18 %	
Frequency	Direct Method	10 Hz to 1 MHz	0.004% to 0.003%	Laboratory
	In-house Method (WI/ABHATH-E01)			
Capacitance	Direct Method	0.75 nF to 30 nF	5.33 % to 0.95 %	Laboratory
	In-house Method (WI/ABHATH-E01)	30 nF to 300 nF	0.95 % to 1.27 %	
		0.3 μ F to 30 μ F	1.27 % to 1.3 %	
		30 μ F to 300 μ F	1.3 % to 1.28 %	
		0.3 mF to 30 mF	1.28 % to 2.8 %	

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location	
Insulation Resistance (50 V - 5 kV)	Direct Method	10 MΩ	1.16 %	Laboratory	
	In-house Method (WI/ABHATH-E04)	100 MΩ	1.16 %		
	Fixed Points	1 GΩ	1.16 %		
		10 GΩ	1.16 %		
AC Power (@ 50 Hz)	Direct Method	18 W to 5 KW	0.15 % to 0.29 %	Laboratory	
	In-house Method (WI/ABHATH-E07) (Using 10 X and 50 X Current coil)	180 V to 500 V			0.29 % to 0.59 %
		0.1 A to 10 A			
		5 kW to 350 kW	0.29 % to 0.59 %		
	500 V to 700 V				
	10 A to 500 A				
Temperature Simulation RTD	Direct Method In-house Method (WI/ABHATH-E06)	-200 °C to 800 °C	0.25 °C to 0.36 °C	Laboratory	
Temperature Simulation J-type		-200 °C to 1200 °C	0.27 °C to 0.34 °C		
Temperature Simulation K-type		-200 °C to 1300 °C	0.26 °C to 0.31 °C		

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SCOPE OF ACCREDITATION Electrical Calibration

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location

Measuring (Calibration of Power Supplies and Calibrators)

DC Voltage	Direct Method	1 mV to 10 V	0.4 % to 0.01 %	Laboratory
	In-house Method (WI/ABHATH-E02)	10 V to 100 V	0.01 % to 0.005 %	
		100 V to 1000 V	0.006 %	
DC High Voltage	In-house Method (WI/ABHATH-E03)	1 kV to 40 kV	3.6 % to 1.4 %	Laboratory
AC Voltage (50 Hz - 1 kHz)	Direct Method	10 mV to 100 mV	0.54 % to 0.12%	Laboratory
	In-house Method (WI/ABHATH-E02)	0.1 V to 10 V	0.12 % to 0.42 %	
		10 V to 1000 V	0.42 % to 0.07 %	
AC High Voltage (@ 50 Hz)	In-house Method (WI/ABHATH-E03)	1 kV to 20 kV	5.8 %	Laboratory
DC Current	Direct Method	1 μ A to 100 μ A	3.89 % to 1.3 %	Laboratory
	In-house Method (WI/ABHATH-E02)	0.1 mA to 100 mA	0.13 % to 0.11 %	
		0.1 A to 1 A	0.11 % to 0.13 %	
		1 A to 10 A	0.13 % to 0.31 %	

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SCOPE OF ACCREDITATION
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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Current (50 Hz - 1 kHz)	Direct Method In-house Method (WI/ABHATH- E02)	10 μ A to 100 μ A	0.87 % to 0.25 %	Laboratory
		0.1 mA to 100 mA	0.25 % to 0.16 %	
		0.1 A to 1 A	0.16 % to 0.17 %	
		1 A to 10 A	0.17 % to 0.25 %	
Resistance 2-Wire	Direct Method In-house Method (WI/ABHATH- E02)	1 Ω to 100 Ω	0.36 % to 0.02 %	Laboratory
		0.1 k Ω to 100 k Ω	0.02 % to 0.01 %	
		0.1 M Ω to 100 M Ω	0.01% to 0.94 %	
		0.1 G Ω to 1 G Ω	0.94 % to 2.3 %	Laboratory
Resistance 4-Wire	Direct Method In-house Method (WI/ABHATH- E02)	1 Ω to 100 Ω	0.36 % to 0.02 %	Laboratory
		0.1 k Ω to 100 k Ω	0.02 % to 0.01 %	
		0.1 M Ω to 10 M Ω	0.01 % to 0.05 %	

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SCOPE OF ACCREDITATION Electrical Calibration

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Capacitance	Direct Method	1 nF to 100 nF	5.4 % to 1.74 %	Laboratory
	In-house Method (WI/ABHATH-E02)	0.1 μ F to 100 μ F	1.74 %	
		0.1 mF to 100 mF	1.74 % to 4.9 %	
Temperature RTD	Direct Method	-200 °C to 600 °C	0.1 °C to 0.26 °C	Laboratory
	In-house Method (WI/ABHATH-E02)			
Frequency	Direct Method	5 Hz to 1 MHz	0.06 % to 0.01 %	Laboratory
	In-house Method (WI/ABHATH-E02)			

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SCOPE OF ACCREDITATION
Balance Calibration

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Balance	Euramet cg 18	0 to 35 kg	5×10^{-6} (but not less than 1d of the balance)	Customers premises

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