



ACCREDITATION CERTIFICATE

LB-040-CAL

Dubai Accreditation Department

has accredited

**General Const. Lab Calibration LLC
Sharjah- 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 26- 05- 2015 to 25- 05- 2018

Initial Accreditation Date: 25- 05- 2009


/ Director, Dubai Accreditation Department



SCOPE OF ACCREDITATION

Calibration

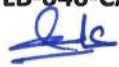
General Const. Lab Calibration LLC

Sharjah- United Arab Emirates

Scope Issue No: 05

Accreditation Certificate No: LB-040-CAL

Scope Validity Period: 26-05-2015 to 25-05-2018

Issued by (Head of Section): 

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	GTS-WP-02	up to 20 bar	0.02%	Laboratory/ Customer Premises
Calibration of Digital & Analogue Pressure Gauges	Based on the requirements of BS EN 837-1 : 1998 Using Druck DPI 610, DPI 620			
Pneumatic Pressure Transducers, Transmitters and Switches	GTS-WP-02 Using Druck DPI 610, DPI 104 and Fluke 8846 multimeter	Up to 100 bar	0.11 %	
Hydraulic Pressure Transducers, Transmitters and Switches	GTS-WP-02 Using Budenberg DWT 580HX Piston Cylinder 030L & Fluke 8846 multimeter	Up to 1200 bar	0.11 %	Laboratory
Hydraulic pressure Digital & Analogue Pressure Gauges & pressure modules	GTS-WP-02 Using Budenberg DWT 580HX Piston Cylinder 030L	Up to 1200 bar	0.02 %	

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Vacuum gauge calibration	GTS-WP-03 Based on the requirements of BS EN 837-1 : 1998 and ISO/TS 3567 Using Druck DPI 610, DPI 620	- 1 to 0 bar	1 mbar	Laboratory / Customer Premises
Calibration of hydraulic pressure balance	GTS-WP-143 based on OIML R110 and EURAMET cg-3 Version 1.0 (03/2011)	Up to 1400 bar	100 ppm FSD	Laboratory
Calibration of pneumatic pressure balance	GTS-WP-143 based on OIML R110 and EURAMET cg-3 Version 1.0 (03/2011)	-1 to 25 bar	100 ppm FSD	

Pressure Calibration

Vacuum gauge calibration	GTS-WP-03 Based on the requirements of BS EN 837-1 : 1998 and ISO/TS 3567 Using Druck DPI 610, DPI 620	- 1 to 0 bar	1 mbar	Laboratory / Customer Premises
Calibration of hydraulic pressure balance	GTS-WP-143 based on OIML R110 and EURAMET cg-3 Version 1.0 (03/2011)	Up to 1400 bar	100 ppm FSD	Laboratory
Calibration of pneumatic pressure balance	GTS-WP-143 based on OIML R110 and EURAMET cg-3 Version 1.0 (03/2011)	-1 to 25 bar	100 ppm FSD	

Volume Calibration

Pipette	Gravimetric Method	Up to 100 µl	±0.57 µl	Laboratory
Fixed and Variable Volume		100 to 2000 µl	±0.57 µl to 1.30 µl	

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Liquid-in-glass thermometers	GTS-WP-13 based on BS 1041-2.1	-30 °C up to 150 °C	0.16 °C	Laboratory
Direct reading thermometers	GTS-WP-15 (in house method)	-30 °C up to 160 °C	0.16 °C	Laboratory
		>160 °C up to 500 °C	0.4 °C	
		>500 °C up to 900 °C	1.3 °C	
		>900 °C up to 1200 °C	4 °C	
Dial thermometers	GTS-WP-14 based on EN 13190	-30 °C up to 160 °C	0.16°C	Laboratory
		>160 °C up to 400 °C	2 °C	
		400 °C up to 800 °C	4 °C	
Base metal thermocouples	GTS WP-12	-40°C up to 250°C	0.3 °C	Laboratory
		250°C up to 600 °C	0.6 °C	
		600 °C up to 900°C	0.9 °C	
		900 °C up to 1200 °C	4 °C	

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Issued by (Head of Section): Qk

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Noble metal thermocouples	GTS-WP-12	0 °C up to 600 °C	0.6 °C	Laboratory
		600 °C up to 900 °C	0.8 °C	
		900 °C up to 1200 °C	1.7 °C	
Climatic Chamber	GTS-WP-09 DKD-R5-7 (9 points)	30 °C up to 180 °C	1.1 °C	Laboratory/ Customer Premises
Water bath, incubators	GTS-WP-09 DKD-R5-7 (5 points)	5 °C up to 95 °C	1.1 °C	Laboratory/ Customer Premises
Freezer / Chiller	GTS -WP-154 DKD-R5-7 (9 points)	-30 °C up to 95 °C	1.1 °C	Laboratory/ Customer Premises

Temperature Calibration

Noble metal thermocouples	GTS-WP-12	0 °C up to 600 °C 600 °C up to 900 °C 900 °C up to 1200 °C	0.6 °C 0.8 °C 1.7 °C	Laboratory
Climatic Chamber	GTS-WP-09 DKD-R5-7 (9 points)	30 °C up to 180 °C	1.1 °C	Laboratory/ Customer Premises
Water bath, incubators	GTS-WP-09 DKD-R5-7 (5 points)	5 °C up to 95 °C	1.1 °C	Laboratory/ Customer Premises
Freezer / Chiller	GTS -WP-154 DKD-R5-7 (9 points)	-30 °C up to 95 °C	1.1 °C	Laboratory/ Customer Premises

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Furnace, Oven	GTS-WP 09 DKD-R5-7 (9 points, muffle furn.: 1 point)	30 °C up to 180 °C 180 °C up to 300 °C 300 °C up to 800 °C 800 °C up to 1200 °C	1.1 °C 1.3 °C 4.0 °C 9.0 °C	Laboratory/ Customer Premises
Auto Clave (Temperature)	GTS-WP-155 DKD-R5-7 (5-9 points)	100 °C up to 140 °C	2 °C	Laboratory/ Customer Premises

Temperature Calibration				
Furnace, Oven	GTS-WP 09 DKD-R5-7 (9 points, muffle furn.: 1 point)	30 °C up to 180 °C 180 °C up to 300 °C 300 °C up to 800 °C 800 °C up to 1200 °C	1.1 °C 1.3 °C 4.0 °C 9.0 °C	Laboratory/ Customer Premises
Auto Clave (Temperature)	GTS-WP-155 DKD-R5-7 (5-9 points)	100 °C up to 140 °C	2 °C	Laboratory/ Customer Premises

Dimensional Calibration				
Digital caliper	GTS-WP-22 Based on BS 887 Standard	0 - 600 mm	± 7 µm	Laboratory
Vernier caliper	GTS-WP-22 Based on BS 887 Standard	0 - 600 mm	± 13 µm	
Dial indicator	GTS-WP-26 Based on BS 907 Standard	0 - 25 mm	± 2.7 µm	
External micrometer	GTS-WP-23 Based on	0 - 25 mm	± 1.0 µm	

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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
BS 870				

Force Calibration

Force Verification /Calibration of Compression testing machines	GTS-WP-06 based on BS EN ISO 7500-1	3000 kN down to 300 kN	0.24% of indicating reading using force transducer class 1, ISO 376	Customer Premises
Force Verification /Calibration of Compression testing machines	GTS-WP-06 based on BS EN ISO 7500-1	3000 kN down to 200 kN	0.45% of indicating reading using force transducer class 2, ISO 376	Customer Premises

Mass Calibration

Calibration concrete and asphalt batching plants (Hopper Scale)	Hopper Scale calibration of concrete batching plants & Euramet CG-18, ASTM C94/C94M & NIST Handbook 44	5000 kg	0.05%	Customer Premises
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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
MASS Calibration of top loading direct reading weighing balance	GTS-WP-01 Based on the requirements of ASTM E 898 : 1988 (re approved 2005) & Euramet CG-18 Calibrated weights E1 (1 mg to 100g), E2(1 mg to 5 kg), F1(1 mg to 5 kg), F2 (10 kg & 20 kg) and M1 (5 kg to 530 kg)	Up to 100 g	0.0001 g	Laboratory/ Customer Premises
		Up to 210 g	0.0002 g	
		Up to 0.5 kg	0.0006 g	
		Up to 1 kg	0.001 g	
		Up to 5 kg	0.009 g	
		Up to 10 kg	0.013 g	
		Up to 30 kg	0.23 g	
		Up to 100 kg	0.45 g	
		Up to 500 kg	2.27 g	
		Up to 200 g	±0.50 mg	Laboratory
Calibration of class M masses	Masses according to GTS-WP-17	1 kg	±2.3 mg	
		2kg	±9.7mg	
		5 kg	±12 mg	
		10 kg	±155 mg	
		20 kg	±170 mg	

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

Electrical Calibration (for Sourcing)

DC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.000 mV up to 320.000 mV	$87 \times 10^{-6} U + 5.0 \mu\text{V}$	Laboratory / Customer Premises
	<i>U = measured voltage value</i>	0.32001 V up to 3.20000 V	$89 \times 10^{-6} U + 48 \mu\text{V}$	
		3.2001 V up to 32.0000 V	$93 \times 10^{-6} U + 0.46 \text{ mV}$	
		32.001 V up to 320.000 V	$93 \times 10^{-6} U + 5.0 \text{ mV}$	
		320.01 V up to 1050.00 V	$88 \times 10^{-6} U + 22 \text{ mV}$	
AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	000.001 mV up to 010.000 mV		Laboratory / Customer Premises
	<i>U = measured voltage value</i>	10 Hz up to 3 kHz	$0.46 \times 10^{-3} U + 0.44 \text{ mV}$	
		<3 kHz up to 10 kHz	$0.46 \times 10^{-3} U + 0.59 \text{ mV}$	
		<10 kHz up to 30 kHz	$0.69 \times 10^{-3} U + 1.1 \text{ mV}$	
		<30 kHz up to 50 kHz	$1.04 \cdot 10^{-3} U + 2.2 \text{ mV}$	

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

Electrical Calibration (for Sourcing)

AC Voltage	GTS-WP-142	000.001 mV up to 010.000 mV		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	<50 kHz up to 100 kHz $2.3 \times 10^{-3} U + 5.9$ mV			
	<i>U = measured voltage value</i>				
	010.001 mV up to 032.000 mV		10 Hz up to 3 kHz $0.46 \times 10^{-3} U + 0.11$ mV		
	<3 kHz up to 10 kHz $0.4 \times 10^{-3} U + 0.15$ mV				
	<10 kHz up to 30 kHz $0.70 \times 10^{-3} U + 0.28$ mV				
	<30 kHz up to 50 kHz $1.04 \times 10^{-3} U + 0.56$ mV				
	<50 kHz up to 100 kHz $2.3 \times 10^{-3} U + 1.5$ mV				
	032.001 mV up to 320.000 mV		10 Hz up to 3 kHz $0.47 \times 10^{-3} U + 22$ μ V		

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

Electrical Calibration (for Sourcing)

AC Voltage	GTS-WP-142	032.001 mV up to 320.000 mV		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	<3 kHz up to 10 kHz	$0.47 \times 10^{-3} U + 29 \mu V$		
	<i>U = measured voltage value</i>	<10 kHz up to 30 kHz	$0.70 \times 10^{-3} U + 56 \mu V$		
		<30 kHz up to 50 kHz	$1.1 \times 10^{-3} U + 0.11 mV$		
		<50 kHz up to 100 kHz	$2.3 \times 10^{-3} U + 0.30 mV$		
		0.32001 V up to 3.20000 V			
		10 Hz up to 3 kHz	$0.48 \times 10^{-3} U + 0.22 mV$		
		<3 kHz up to 10 kHz	$0.47 \times 10^{-3} U + 0.29 mV$		
		<10 kHz up to 30 kHz	$0.70 \times 10^{-3} U + 0.55 mV$		
		<30 kHz up to 50 kHz	$1.05 \cdot 10^{-3} U + 1.1 mV$		

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>U= measured voltage value</i>	0.32001 V up to 3.20000 V <50 kHz up to 100 kHz $2.3 \times 10^{-3} U + 3.0$ mV 3.2001 V up to 32.0000 V 10 Hz up to 3 kHz $0.48 \times 10^{-3} U + 2.2$ mV <3 kHz up to 10 kHz $0.71 \times 10^{-3} U + 2.9$ mV <10 kHz up to 30 kHz $0.93 \times 10^{-3} U + 5.5$ mV <30 kHz up to 50 kHz $1.7 \times 10^{-3} U + 11$ mV <50 kHz up to 100 kHz $4.1 \times 10^{-3} U + 37$ mV 032.001 V up to 105.000 V 10 Hz up to 3 kHz $0.47 \times 10^{-3} U + 7.3$ mV	Laboratory / Customer Premises	

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

Electrical Calibration (for Sourcing)

AC Voltage	GTS-WP-142	032.001 V up to 105.000 V		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	<3 kHz up to 10 kHz	$0.70 \times 10^{-3} U + 9.7$ mV		
	<i>U = measured voltage value</i>	<10 kHz up to 0 kHz	$0.93 \times 10^{-3} U + 18$ mV		
		30 kHz up to 0 kHz	$1.7 \times 10^{-3} U + 36$ mV		
		<50 kHz up to 100 kHz	$4.1 \times 10^{-3} U + 0.12$ V		
		105.001 V up to 320.000 V			
		40 Hz up to 100 Hz	$0.6 \times 10^{-3} U + 22$ mV		
		<100 Hz up to 1 kHz	$0.6 \times 10^{-3} U + 22$ mV		
		<1 kHz up to 3 kHz	$0.94 \times 10^{-3} U + 22$ mV		
		<3 kHz up to 10 kHz	$0.94 \times 10^{-3} U + 37$ mV		

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AC Voltage	GTS-WP-142	105.001 V up to 320.000 V		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	<20 kHz up to 30 kHz $1.7 \times 10^{-3} U + 74 \text{ mV}$			
	<i>U = measured voltage value</i>		0320.01 V to 0800.00 V		
			40 Hz up to 100 Hz $0.59 \times 10^{-3} U + 73 \text{ mV}$		
			<100 Hz up to 1 kHz $0.59 \times 10^{-3} U + 73 \text{ mV}$		
			<1 kHz up to 3 kHz $0.93 \times 10^{-3} U + 73 \text{ mV}$		
			<3 kHz up to 10 kHz $0.93 \times 10^{-3} U + 0.12 \text{ V}$		
			0800.01 V up to 1050.00 V		
			40 Hz up to 100 Hz $0.59 \times 10^{-3} U + 0.15 \text{ V}$		
			<100 Hz up to 1 kHz $0.59 \times 10^{-3} U + 0.15 \text{ V}$		

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SCOPE OF ACCREDITATION

Calibration

General Const. Lab Calibration LLC

Sharjah- United Arab Emirates

Scope Issue No: 05

Accreditation Certificate No: LB-040-CAL

Scope Validity Period: 26-05-2015 to 25-05-2018

Issued by (Head of Section): LIC

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

Electrical Calibration (for Sourcing)

AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0800.01 V up to 1050.00 V		Laboratory / Customer Premises
		<1 kHz up to 3 kHz	$0.93 \times 10^{-3} U + 0.15$ V	
DC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	<3 kHz up to 10 kHz	$0.93 \times 10^{-3} U + 0.24$ V	Laboratory / Customer Premises
		0.000 μA up to 320.000 μA	$0.17 \times 10^{-3} I + 0.013$ μA	
		0.32001 mA up to 3.20000 mA	$0.18 \times 10^{-3} I + 0.094$ μA	
		3.2001 mA up to 32.0000 mA	$0.18 \times 10^{-3} I + 1.0$ μA	
		32.001 mA up to 320.000 mA	$0.20 \times 10^{-3} I + 11$ μA	
		0.32001 A up to 3.20000 A	$0.70 \times 10^{-3} I + 0.14$ mA	
		3.2001 A up to 10.5000 A	$0.64 \times 10^{-3} I + 1.1$ mA	

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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	
DC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	3.2001 A up to 32.0000 A	2.4X10 ⁻³ / + 0.51 mA	Laboratory / Customer Premises	
	10-Turn Coil <i>I= measured current value</i>	32.001 A up to 105.000 A	2.4X10 ⁻³ / + 3.8 mA		
	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	16.001 A up to 160.000 A	2.4X10 ⁻³ / + 2.5 mA		
	50-Turn Coil <i>I= measured current value</i>	160.01 A up to 525.00 A	2.4X10 ⁻³ / + 19 mA		
		525.01 A up to 1000.00 A	2.4X10 ⁻³ / + 0.104 A		
AC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.001 μA up to 320.000 μA	10 Hz up to 3 kHz	0.83X10 ⁻³ / + 0.35 μA	Laboratory / Customer Premises
			<3 kHz up to 10 kHz	1.2X10 ⁻³ / + 0.69 μA	

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Issued by (Head of Section): *SAC*

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
AC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.001 μA up to 320.000 μA <i>I</i> = measured current value	<10 kHz up to 20 kHz $2.3 \times 10^{-3} / + 2.3 \mu\text{A}$ 0.32001 mA up to 3.20000 mA 10 Hz up to 3 kHz $0.85 \times 10^{-3} / + 0.34 \mu\text{A}$ <3 kHz up to 10 kHz $1.2 \times 10^{-3} / + 0.68 \mu\text{A}$ <10 kHz up to 20 kHz $2.4 \times 10^{-3} / + 2.3 \mu\text{A}$ <20 kHz up to 30 kHz $2.9 \times 10^{-3} / + 3.5 \mu\text{A}$ 3.2001 mA up to 32.0000 mA 10 Hz up to 3 kHz $0.85 \times 10^{-3} / + 3.6 \mu\text{A}$ <3 kHz up to 10 kHz $1.2 \times 10^{-3} / + 7.3 \mu\text{A}$	Laboratory / Customer Premises

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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

Electrical Calibration (for Sourcing)

AC Current	GTS-WP-142	3.2001 mA up to 32.0000 mA		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	<10 kHz up to 320 kHz			
	$I = \text{measured current value}$		$2.4 \times 10^{-3} I + 15 \mu\text{A}$		
	20 kHz up to 30 kHz		$2.9 \times 10^{-3} I + 26 \mu\text{A}$		
	32.001 mA up to 320.000 mA				
	10 Hz up to 3 kHz		$0.9 \times 10^{-3} I + 36 \mu\text{A}$		
	<3 kHz up to 10 kHz		$1.2 \times 10^{-3} I + 54 \mu\text{A}$		
	<10 kHz up to 20 kHz		$2.4 \times 10^{-3} I + 74 \mu\text{A}$		
	20 kHz up to 30 kHz		$2.9 \times 10^{-3} I + 0.11 \text{mA}$		
	0.32001 A up to 3.20000 A				
	10 Hz up to 3 kHz		$1.2 \times 10^{-3} I + 0.55 \mu\text{A}$		
	3 kHz up to 10 kHz		$2.9 \times 10^{-3} I + 3.0 \text{mA}$		

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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

Electrical Calibration (for Sourcing)

AC Current	GTS-WP-142	3.2001 A to 10.5000 A		Laboratory / Customer Premises	
	Based on BS EN 60051-1:1999, Euramet Cg-15	10 Hz up to 3 kHz	$2.3 \times 10^{-3} / + 3.5$ mA		
	<i>I</i> = measured current value	<3 kHz up to 10 kHz	$5.8 \times 10^{-3} / + 12$ mA		
		10-Turn Coil			
		16.001 A up to 160.000 A			
		10 Hz up to 100 Hz	$3.3 \times 10^{-3} / + 5.2$ mA		
		<100 Hz up to 440 Hz	$9.3 \times 10^{-3} / + 31$ mA		
		32.001 A up to 200.000 A			
		10 Hz up to 100 Hz	$3.3 \times 10^{-3} / + 91$ mA		
		<100 Hz up to 440 Hz	$8.1 \times 10^{-3} / + 0.28$ A		

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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
AC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	50-Turn Coil 16.001 A up to 160.000 A 10 Hz up to 100 Hz $3.3 \times 10^{-3} I + 27$ mA <i>I = measured current value</i> 160.01 A up to 1000.00 A 10 Hz up to 100 Hz $3.3 \times 10^{-3} I + 0.45$ A		Laboratory / Customer Premises
Resistance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.0001 Ω up to 40.0000 Ω 40.001 Ω up to 400.000 Ω <i>R = measured resistance value</i> 0.40001 kΩ up to 4.00000 kΩ 4.0001 kΩ up to 40.0000 kΩ 40.001 kΩ up to 400.000 kΩ 0.40001 MΩ up to 4.00000 MΩ	0.33 × 10 ⁻³ R + 12 mΩ 0.23 × 10 ⁻³ R + 23 mΩ 0.17 × 10 ⁻³ R + 93 mΩ 0.17 × 10 ⁻³ R + 0.93 Ω 0.21 × 10 ⁻³ R + 9.3 Ω 0.23 × 10 ⁻³ R + 0.12 kΩ	Laboratory / Customer Premises

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SCOPE OF ACCREDITATION

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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
Resistance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	4.0001 MΩ up to 40.0000 MΩ	$0.59 \times 10^{-3} R + 2.3$ kΩ	Laboratory / Customer Premises
		40.001 MΩ up to 400.000 MΩ	$0.71 \times 10^{-3} R + 46$ kΩ	
Capacitance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.5000 nF up to 4.0000 nF	25 pF	Laboratory / Customer Premises
		4.0001 nF up to 40.000 nF	+ 0.11 nF	
		40.001 nF up to 400.00 nF	+ 0.96 nF	
		400.01 nF up to 4.0000 μF	$4.7 \times 10^{-3} C + 1.9$ nF	
		4.0001 μF up to 40.000 μF	$5.8 \times 10^{-3} C + 19$ nF	
		40.001 μF up to 400.00 μF	$5.8 \times 10^{-3} C + 0.19$ μF	
		400.01 μF up to 4.0000 mF	$5.8 \times 10^{-3} C + 1.8$ μF	

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Issued by (Head of Section): Rbc

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

Electrical Calibration (for Sourcing)				
Capacitance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>C</i> = measured capacitance value	4.0001 mF up to 40.000 mF	$11.6 \times 10^{-3} C + 69$ μF	Laboratory / Customer Premises
Frequency	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>f</i> = measured frequency value	0.5 Hz up to 10.0 MHz	$29 \times 10^{-6} f$	Laboratory / Customer Premises

Electrical Calibration (for Measuring)				
DC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>U</i> = measured voltage value	100 mv	$43 \times 10^{-6} U + 4.0 \mu V$	Laboratory / Customer Premises
		1 V	$31 \times 10^{-6} U + 8.0 \mu V$	
		10 V	$30 \times 10^{-6} U + 57 \mu V$	
		100 V	$46 \times 10^{-6} U + 0.69$ mV	
		1000 V	$49 \times 10^{-6} U + 12$ mV	

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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

Electrical Calibration (for Measuring)

AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>U= measured voltage value</i>	100 mV		Laboratory / Customer Premises
		5 Hz up to 10 Hz	$4.1 \times 10^{-3} U + 46 \mu V$	
		<10 Hz up to 20 kHz	$0.72 \times 10^{-3} U + 46 \mu V$	
		<20 kHz up to 50 kHz	$1.5 \times 10^{-3} U + 58 \mu V$	
		<50 kHz up to 100 kHz	$7.0 \times 10^{-3} U + 93 \mu V$	
		1 V		
		5 Hz up to 10 Hz	$4.1 \times 10^{-3} U + 0.35 mV$	
		<10 Hz up to 20 kHz	$0.70 \times 10^{-3} U + 0.35 mV$	
		<20 kHz up to 50 kHz	$1.4 \times 10^{-3} U + 0.58 mV$	

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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
AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	<50 kHz up to 100 kHz <i>U = measured voltage value</i>	$6.9 \times 10^{-3} U + 0.93$ mV 10 V $4.1 \times 10^{-3} U + 3.5$ mV $0.7 \times 10^{-3} U + 3.5$ mV $1.4 \times 10^{-3} U + 5.8$ mV $7.0 \times 10^{-3} U + 9.3$ mV 100 V $4.1 \times 10^{-3} U + 35$ mV $0.7 \times 10^{-3} U + 35$ mV	Laboratory / Customer Premises

Electrical Calibration (for Measuring)

AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	<i>U = measured voltage value</i>	<50 kHz up to 100 kHz	$6.9 \times 10^{-3} U + 0.93$ mV	Laboratory / Customer Premises
			10 V		
			5 Hz up to 10 Hz	$4.1 \times 10^{-3} U + 3.5$ mV	
			<10 Hz up to 20 kHz	$0.7 \times 10^{-3} U + 3.5$ mV	
			<20 kHz up to 50 kHz	$1.4 \times 10^{-3} U + 5.8$ mV	
			<50 kHz up to 100 kHz	$7.0 \times 10^{-3} U + 9.3$ mV	
			100 V		
			5 Hz up to 10 Hz	$4.1 \times 10^{-3} U + 35$ mV	
			<10 Hz up to 20 kHz	$0.7 \times 10^{-3} U + 35$ mV	

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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

Electrical Calibration (for Measuring)

AC Voltage	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15 <i>U= measured voltage value</i>	<20 kHz up to 50 kHz	$1.4 \times 10^{-3} U + 58$ mV	Laboratory / Customer Premises
		<50 kHz up to 100 kHz	$7.0 \times 10^{-3} U + 93$ mV	
		1000 V		
		5 Hz up to 10 Hz	$4.1 \times 10^{-3} U + 0.35$ V	
		<10 Hz up to 20 kHz	$0.72 \times 10^{-3} U + 0.35$ V	
		<20 kHz up to 50 kHz	$1.8 \times 10^{-3} U + 0.55$ V	
		<50 kHz up to 100 kHz	$7.03 \times 10^{-3} U + 0.92$ V	
DC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	100 μ A	$0.59 \times 10^{-3} I + 0.03$ μ A	Laboratory / Customer Premises
		1 mA	$0.58 \times 10^{-3} I + 0.06$	

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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
<i>I = measured current value</i>				
DC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	10 mA	$0.58 \times 10^{-3} I + 2.3$ µA	Laboratory / Customer Premises
		100 mA	$0.58 \times 10^{-3} I + 5.8$ µA	
		1 A	$0.59 \times 10^{-3} I + 0.23$ mA	
		10 A	$1.8 \times 10^{-3} I + 0.92$ mA	
AC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	100 µA (10 Hz up to 1 kHz)	$1.2 \times 10^{-3} I + 0.05$ µA	Laboratory / Customer Premises
		1 mA (10 Hz up to 1 kHz)	$1.2 \times 10^{-3} I + 0.46$ µA	
		10 mA (10 Hz up to 1 kHz)	$1.2 \times 10^{-3} I + 4.6$ µA	
		100 mA (10 Hz up to 1 kHz)	$1.2 \times 10^{-3} I + 46$ µA	

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

- Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.



SCOPE OF ACCREDITATION

Calibration

General Const. Lab Calibration LLC

Sharjah- United Arab Emirates

Scope Issue No: 05

Accreditation Certificate No: LB-040-CAL

Scope Validity Period: 26-05-2015 to 25-05-2018

Issued by (Head of Section): Q. Al-Khalifa

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

Electrical Calibration (for Measuring)				
AC Current	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	1 A (10 Hz up to 1 kHz) 10 A (10 Hz up to 1 kHz)	$1.2 \times 10^{-3} I + 0.46$ mA $1.8 \cdot 10^{-3} I + 6.9$ mA	Laboratory / Customer Premises
	<i>I = measured current value</i>			
Resistance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	0.0001 Ω up to 10.0000 Ω 10.001 Ω up to 100.000 Ω 0.1001 kΩ up to 1.0 kΩ 1.0001 kΩ up to 10.0000 kΩ 10.001 kΩ up to 100.000 kΩ	0.12 × 10 ⁻³ R + 3.5 mΩ 0.12 × 10 ⁻³ R + 4.6 mΩ 0.12 × 10 ⁻³ R + 12 mΩ 0.12 × 10 ⁻³ R + 0.12 Ω 0.12 × 10 ⁻³ R + 1.2 Ω	Laboratory / Customer Premises
<i>R = measured resistance value</i>				

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Issued by (Head of Section): *(Signature)*

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
		0.10001 MΩ up to 1.00000 MΩ	0.12X10 ⁻³ R + 11Ω	

Electrical Calibration (for Measuring)				
Resistance	GTS-WP-142 Based on BS EN 60051-1:1999, Euramet Cg-15	1.0001 MΩ up to 10.0000 MΩ	0.47X10 ⁻³ R + 0.12 kΩ	Laboratory / Customer Premises
		10.001 MΩ up to 100.000 MΩ	9.3X10 ⁻³ R + 12 kΩ	
<i>R= measured resistance value</i>				

Note: For history details of accredited conformity assessment activities, please refer to Dubai Accreditation Department, Dubai Municipality.

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