

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Calibration Laboratory Accreditation No. ACL 0012

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognized International Standard ISO/IEC 17025:2017, "General requirements for the competence of testing and calibration laboratories"

MUSTAFA SULTAN SCIENCE & INDUSTRY CO. LLC.	
<p>Address. Way # 277, Warehouse #: G17, House #: 86, Ghala Industrial Estate, Ghala, Muscat, Sultanate of Oman</p>	<p>Contact: Jose Ruban Vincent Tel: +968 24629927 Fax: --- Email: j-vincent@mustafasultan.com Web Address:</p>

Locations where calibration activities covered by the above Accreditation Standard are undertaken

- 1- Way # 277, Warehouse #: G17, House #: 86, Ghala Industrial Estate, Ghala, Muscat, Sultanate of Oman
- 2- Customer Premises

For the following scope:

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

10.15 Scope of Accreditation

Scope:

1. Calibration

1.03 Engineering Metrology Equipment

1.20 Pressure and Vacuum Measuring Devices.

1.26 Testing Machines

1.38 Instrument Calibrators

1.39 Indicating and Recording Instruments

1.80 Calibration of Temperature Measuring Equipment

1.84 Testing of Controlled Enclosures

Scope details are as follows:

Calibration field 1: (Pressure)

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *	
Relative Pressure (Pneumatic)	-0.9 up to 0 bar	(1.7E-03 x P + 1.0) mbar	DKD-R-6-1: 2014 + Internal Procedure CP/PRE/02	Mechanical and Electromechanical Manometers	P	
	> 0 up to 200 bar	(1.2E-04 x P + 0.020) bar				
	-0.9 up to 0 bar	(2.0E-03 x P + 1.0) mbar			S	
	> 0 up to 20 bar	(3.0E-04 x P + 0.0050) bar				
Relative Pressure (Oil)	1 up to 60 bar	(6.5E-05 x P + 2.0) mbar				P
	> 60 up to 1200 bar	(6.0E-05 x P + 0.012) bar				
	0 up to 700 bar	(4.0E-04 x P + 0.035) bar				S

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

Calibration field 2: (Force)

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S)
Force / compression	300 up to 3000 kN	0.35 %	ISO 7500-1: 2018 Annex B of EN 12390-4:2000 + Internal Procedure CP/TAF/02	Compression Testing Machines (class 2 and 3)	S

Calibration field 3: (Electrical Quantities)

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
DC V Source	Up to 10 mV	0.039 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	P
	> 10 mV to 300 mV	0.0076 %		
	> 0.3 V to 3 V	0.0053 %		
	> 3 V to 30 V	0.0053 %		
	> 30 V to 1000 V	0.0058 %		
DC V Source	Up to 20 mV	0.067 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	S
	> 20 mV to 100 mV	0.021 %		
	> 0.1 V to 1000 V	0.013 %		
AC V Source	Up to 10 mV	0.55 %	Euramet CG-15, Version 3.0 +	P

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
			Internal Procedure: CP/ELE/02	
≥ 10 Hz to 45 Hz	> 10 to 100 mV	0.30 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	
	> 0.1 to 10 V	0.18 %		
≥ 45 Hz to 1 kHz	Up to 10 mV	0.35 %		
	> 10 to 100 mV	0.073 %		
	> 0.1 to 1 V	0.037 %		
	> 1 to 10 V	0.047 %		
	> 10 to 100 V	0.057 %		
	> 100 to 1000 V	0.059 %		
> 1kHz to 10 kHz	Up to 10 mV	0.35 %		
	> 10 to 100 mV	0.073 %		
	> 0.1 to 1 V	0.037 %		
	> 1 to 10 V	0.047 %		
> 10 kHz to 20 kHz	> 10 to 100 V	0.096 %		
	> 100 to 1000 V	0.25 %		

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
	Up to 10 mV	0.40 %		
	> 10 to 100 mV	0.12 %		
	> 0.1 to 1 V	0.088 %		
	> 1 to 100 V	0.12 %		
> 20kHz to 50 kHz	Up to 10 mV	0.45 %		
	> 10 to 100 mV	0.20 %		
	> 0.1 to 1 V	0.17 %		
	> 1 to 10 V	0.24 %		
> 50 kHz to 100 kHz	Up to 10 mV	0.68 %		
	> 0.01 to 10 V	0.41 %		
> 100 kHz to 500 kHz	Up to 10 mV	1.6 %		
	> 10 to 100 mV	1.0 %		
	> 0.1 to 1 V	0.83 %		
AC V Source ≥10 Hz to 40 Hz	≥ 20 to 100 mV	0.14 %	Euramet CG-15, Version 3.0	
	> 0.1 to 100 V	0.13 %	+	S
	> 100 to 1000 V	0.16 %	Internal Procedure: CP/ELE/02	

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
> 40 Hz to 1 kHz	≥ 20 to 100 mV	0.14 %		
	> 0.1 to 100 V	0.13 %		
	> 100 to 1000 V	0.16 %		
>1 kHz to 20 kHz	≥ 20 100 mV	0.26 %		
	> 0.1 to 10 V	0.32 %		
DC, I Source	Up to 100 uA	0.066 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	P
	> 0.1 to 3 mA	0.015 %		
	> 3 to 30 mA	0.011 %		
	> 30 to 300 mA	0.012 %		
	> 0.3 to 2 A	0.033 %		
	> 2 to 10 A	0.063 %		
	> 10 to 20 A	0.38 %		
	20 to 500 A	0.31 %		
DC I Source	Up to 20 uA	0.21 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	S
	> 10 to 100 uA	0.069 %		
	> 0.1 to 100 mA	0.047 %		
	> 0.1 to 1 A	0.052 %		
	> 1 to 10 A	0.081 %		
	> 10 to 20 A	0.45 %		
	> 20 0 100 A	0.49 %		
	> 100 to 500 A	0.29 %		

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

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AC I Source	Up to 100 uA	0.28 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	P	
	≥ 20 Hz to 45 Hz	> 0.1 to 100 mA > 0.1 to 1 A			0.14 % 0.24 %
	≥ 45 Hz to 65 Hz	≥ 1 to 10 A			0.089 %
	> 65 Hz to 500 Hz	≥ 1 to 10 A			0.13 %
	> 0.5 kHz to 1 kHz	≥ 1 to 10 A			0.36 %
	@ 50Hz	≥ 10 to 20 A ≥ 20 to 500 A			0.51 % 0.36 %
	≥ 45 Hz to 1 kHz	Up to 100 uA > 0.0001 to 1 A			0.38 % 0.14 %
	≥ 1 kHz to 5 kHz	Up to 100 uA > 0.1 to 10 mA > 10 to 100 mA > 0.1 to 1 A			0.56 % 0.24 % 0.13 % 0.78 %
	> 5 kHz to 10 kHz	Up to 100 uA > 0.1 to 100 mA			1.4 % 0.65 %
	AC I Source	Up to 100 uA			0.58 %

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
≥ 40 Hz to 1 kHz @ 50Hz	0.0001 to 1 A 1 to 10 A 10 to 20 A 20 to 100 A 100 to 500 A	0.21 % 0.13 % 0.45 % 0.48 % 0.29 %	+ Internal Procedure: CP/ELE/02	
Resistance Source	≥ 1 to 10 Ω > 10 to 30 Ω > 30 to 100 Ω > 100 to 300 Ω > 0.3 to 1 kΩ > 1 to 3 kΩ > 3 to 10 kΩ > 10 to 30 kΩ > 30 to 100 kΩ > 100 to 300 kΩ > 0.3 to 1 MΩ > 1 to 3 MΩ > 3 to 10 MΩ > 10 to 30 MΩ > 30 to 100 MΩ > 100 to 300 MΩ	0.073 % 0.046 % 0.019 % 0.013 % 0.015 % 0.011 % 0.015 % 0.011 % 0.017 % 0.014 % 0.021 % 0.017 % 0.066 % 0.10% 0.51 % 0.51 %	Euramet CG-15, Version 3.0 + Internal Procedure: CP/ELE/02	P
Resistance Source	Up to 3 Ω > 3 to 10 Ω	1.9 % 0.60 %	Euramet CG-15, Version 3.0 +	S

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

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	> 10 to 100 Ω	0.081 %	Internal Procedure: CP/ELE/02	
	> 0.1 to 1 kΩ	0.065 %		
	> 0.001 to 1 MΩ	0.024 %		
	> 1 to 10 MΩ	0.06 %		
	> 10 to 100 MΩ	0.27 %		
Frequency Source	≥ 1 to 100 Hz	0.0035 %	Euramet CG-15, Version 3.0 +	P
	> 0.0001 to 1 MHz	0.0026 %	Internal Procedure: CP/ELE/02	
Frequency Source	Up to 10 Hz	0.0025 %	Euramet CG-15, Version 3.0 +	S
	≥ 0.01 to 100 kHz	0.0023 %	Internal Procedure: CP/ELE/02	
Temperature (Electrical Simulation)			Internal Procedure: CP/ELE/02	P
Type-J	≥ -100 to 1200 °C	0.27 °C		
Type-K	≥ -100 to 1200 °C	0.48 °C		
Type-R	≥ 0 to 1760 °C	0.50 °C		
Type-S	≥ 0 to 1760 °C	0.56 °C		
Type-T	≥ -100 to 400 °C	0.18 °C		
PT-100	≥ -200 to 0 °C	0.06 °C		
	0 to 300 °C	0.10 °C		
	300 to 630 °C	0.14 °C		
	630 to 800 °C	0.27 °C		

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

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Temperature (Electrical Simulation)				
Type-J	> -200 to 600 °C	0.33 °C	Internal Procedure: CP/ELE/02	S
Type-K	> -200 to 1370 °C	0.60 °C		
Type-R	> 0 to 1750 °C	1.2 °C		
Type-S	> 0 to 1750 °C	1.2 °C		
Type-T	> -250 to 400 °C	0.26 °C		
PT-100	> -100 to 0 °C 0 to 800 °C	0.36 °C 0.59 °C		
AC Power 1 phase @ 50Hz (≥ 30 to 500 V) (≥ 0.05 to 60A)	≥ 6 to 12 W > 0.012 to 14 kW	0.040% 0.020%	Internal Procedure: CP/ELE/06	P and S
AC Power 3 phase @ 50Hz (≥ 30 to 500 V) (≥ 0.05 to 60A)	≥ 0.04 to 43 kW	0.020%	Internal Procedure: CP/ELE/06	P and S
DC V Measure	Up to 100 mV > 0.1 to 1 V > 1 to 10 V > 10 to 100 V > 100 to 1000 V	0.0086 % 0.0038 % 0.0034 % 0.0051 % 0.0059 %	Internal Procedure CP/ELE/03	P and S
AC V Measure ≥ 10 Hz to 50 Hz	Up to 100 mV > 0.1 to 1000 V	0.12 % 0.10 %	Internal Procedure CP/ELE/03	P and S

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021
File Manager: Hamza Khan

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
> 50 Hz to 20 kHz	Up to 100 mV > 0.1 to 1000 V	0.12 % 0.10 %		
> 20 kHz to 50 kHz	Up to 100 mV > 0.1 to 100 V	0.20 % 0.20 %		
> 50 kHz to 100 kHz	Up to 100 mV > 0.1 to 100 V	0.79 % 0.79 %		
> 100 kHz to 300 kHz	Up to 100 mV > 0.1 to 10 V	5.2 % 5.2 %		
DC I Measure	Up to 100 uA > 0.1 to 1 mA > 1 to 10 mA > 10 to 400 mA > 0.4 to 1 A > 1 to 3 A > 3 to 10 A	0.061 % 0.061 % 0.081 % 0.064 % 0.081 % 0.14 % 0.18 %	Internal Procedure CP/ELE/03	P and S
AC I Measure ≥ 10 Hz to 50 Hz	Up to 100 uA > 0.1 to 1 mA > 1 to 10 mA	0.24 % 0.16 % 0.24 %	Internal Procedure CP/ELE/03	P and S P and S

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan



ACCREDITED
CALIBRATION
ISO/IEC 17025:2017
No. ACL 0012

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
> 50 Hz to 1 kHz	> 10 to 100 mA	0.16 %		
	> 100 to 400 mA	0.24 %		
	> 0.4 to 1 A	0.16 %		
	> 1 to 10 A	0.24 %		
	> 0 to 100 uA	0.24 %		
	> 0.1 to 1 mA	0.16 %		
	> 1 to 10 mA	0.24 %		
	> 10 to 100 mA	0.16 %		
	> 100 to 400 mA	0.24 %		
	> 0.4 to 1 A	0.16 %		
> 1 to 10 A	0.24 %			
DC Resistance Measure	Up to 10 Ω	0.047 %	Internal Procedure CP/ELE/03	P and S
	> 10 to 100 Ω	0.016 %		
	> 0.0001 to 1 MΩ	0.013 %		
	> 1 to 10 MΩ	0.048 %		
	> 10 to 100 MΩ	0.94 %		
Frequency Measure	≥ 5 to 10 Hz	0.058 %	Internal Procedure CP/ELE/03	P and S
	> 10 to 40 Hz	0.035 %		
	> 0.04 to 900 kHz	0.012 %		
Temperature (Electrical Measurement) Type-J Type-K			Internal Procedure CP/ELE/03	P and S
	≥ -100 to 1100 °C	0.27 °C		
	≥ -190 to 1300 °C	0.47 °C		

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan



ACCREDITED

CALIBRATION

ISO/IEC 17025:2017

No. ACL 0012

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
Type-R	≥ 0 to 1700 °C	0.47 °C		
Type-S	≥ 0 to 1500 °C	0.53 °C		
Type-T	≥ -150 to 300 °C	0.17 °C		
PT100	≥ -200 to 100 °C	0.17 °C		
	> 100 to 700 °C	0.21 °C		
Insulation Resistance Source	100 kΩ	0.027 kΩ	Internal Procedure CP/ELE/04	P and S
	200 kΩ	0.026 kΩ		
	500 kΩ	0.051 kΩ		
	1 MΩ	0.00012 MΩ		
	2 MΩ	0.00061 MΩ		
	5 MΩ	0.00077 MΩ		
	10 MΩ	0.020 MΩ		
	0 MΩ	0.020 MΩ		
	30 MΩ	0.023 MΩ		
	40 MΩ	0.027 MΩ		
	50 MΩ	0.031 MΩ		
	60 MΩ	0.036 MΩ		
	70 MΩ	0.042 MΩ		
	80 MΩ	0.048 MΩ		
	90 MΩ	0.065 MΩ		
	100 MΩ	0.13 MΩ		
200 MΩ	0.25 MΩ			
300 MΩ	0.45 MΩ			
400 MΩ	0.76 MΩ			

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan



ACCREDITED

CALIBRATION

ISO/IEC 17025:2017

No. ACL 0012

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
Insulation Resistance Source	500 MΩ	1.0 MΩ	Internal Procedure CP/ELE/04	P and S
	600 MΩ	1.5 MΩ		
	700 MΩ	1.8 MΩ		
	800 MΩ	2.5 MΩ		
	900 MΩ	0.99 MΩ		
	1 GΩ	0.0012 GΩ		
	2 GΩ	0.0022 GΩ		
	3 GΩ	0.0034 GΩ		
	4 GΩ	0.0045 GΩ		
	5 GΩ	0.0057 GΩ		
	6 GΩ	0.0078 GΩ		
	7 GΩ	0.0077 GΩ		
	8 GΩ	0.0089 GΩ		
	9 GΩ	0.010 GΩ		
	10 GΩ	0.059 GΩ		
	20 GΩ	0.074 GΩ		
	30 GΩ	0.15 GΩ		
	40 GΩ	0.18 GΩ		
	50 GΩ	0.33 GΩ		
60 GΩ	0.62 GΩ			
70 GΩ	0.81 GΩ			
80 GΩ	0.75 GΩ			
90 GΩ	1.3 GΩ			

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan



ACCREDITED

CALIBRATION

ISO/IEC 17025:2017

No. ACL 0012

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
	100 GΩ	0.89 GΩ		
Low Resistance Source	50 uΩ	0.21 uΩ	Internal Procedure CP/ELE/05	P and S
	100 uΩ	0.22 uΩ		
	150 uΩ	0.26 uΩ		
	200 uΩ	0.31 uΩ		
	0.5 mΩ	0.00021 mΩ		
	1 mΩ	0.00063 mΩ		
	1.5 mΩ	0.0024 mΩ		
	2 mΩ	0.00034 mΩ		
	5 mΩ	0.0017 mΩ		
	10 mΩ	0.0029 mΩ		
	15 mΩ	0.0052 mΩ		
	20 mΩ	0.012 mΩ		
	50 mΩ	0.0077 mΩ		
	100 mΩ	0.014 mΩ		
	150 mΩ	0.023 mΩ		
	200 mΩ	0.031 mΩ		
	0.5 Ω	0.000050 Ω		
1 Ω	0.00010 Ω			
1.5 Ω	0.00016 Ω			
2 Ω	0.00020 Ω			

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

Calibration field 4: (Thermal)

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
Sensor with Indicator	-10 to 100 °C	0.19 °C	Euramet CG-08 Version 01 + Internal Procedure CP/TMP/02	P and S
	> 100 to 300 °C	0.29 °C		
	> 300 to 500 °C	0.55 °C		
	> 500 to 650 °C	0.65 °C		
Dial Thermometer	-10 to 100 °C	0.34 °C	BSEN 13190:2001 + Internal Procedure CP/TMP/04	P and S
	>100 to 250 °C	0.64 °C		
Temperature Chart Recorder	-10 to 140 °C	0.51 °C	BSEN 13190:2001 + Internal Procedure CP/TMP/03	P and S
Dry Block Calibrator	-10 to 100 °C	0.13 °C	Euramet Cg-13 Version 03 + Internal Procedure CP/TMP/05	P and S
	> 100 to 300 °C	0.24 °C		
	> 300 to 500 °C	0.47 °C		
	> 500 to 650 °C	0.58 °C		
Heat Enclosures	25 °C to 50 °C	0.25 °C	Euramet Cg-20 Version 05 + Internal Procedure CP/TMP/06	P and S
	> 50 to 100 °C	0.59 °C		
	> 100 to 650 °C	0.87 °C		
IR Thermometer	50 to 300 °C	2 °C	MSL Guide 22 : 2009 + Internal Procedure CP/TMP/02	P
	> 300 to 350 °C	2.6 °C		
	> 350 to 500 °C	3.0 °C		
	> 500 to 1200 °C	3.3 °C		

Issue No: 3/ Issue Date: 30-11-2021

File Manager: Hamza Khan

Calibration field 5: (Dimensional)

Measurand / Equipment	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Permanent lab (P) / Client-site (S)
External Micrometer Readability 0.001mm	≥ 0 to 25mm	2 μm	Internal Procedure CP/DIM/03	P
	≥ 25 to 50mm	3 μm		
	≥ 50 to 100mm	4 μm		
External Micrometers Readability 0.01mm	≥ 0 to 25mm	10 μm	Internal Procedure CP/DIM/03	P
	≥ 25 to 50mm	10 μm		
	≥ 50 to 100mm	10 μm		
Calipers Readability 0.02mm	≥ 0 to 150 mm	20 μm	Internal Procedure CP/DIM/04	P
	≥ 150 to 300 mm	25 μm		
	≥ 300 to 600mm	30 μm		
Calipers Readability 0.01mm	≥ 0 to 150 mm	20 μm	Internal Procedure CP/DIM/04	P
	≥ 150 to 300 mm	30 μm		
	≥ 300 to 600mm	40 μm		
Dial Gauge Readability 0.001mm	≥ 0 to 25mm	6.0 μm	Internal Procedure CP/DIM/02	P

*: Put only 'P', 'S' or 'P and S'

**Calibration and Measurement Capability Uncertainty (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. CMC's 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.

Note: the text in blue indicates the new scope OR update in the Edition of a method in this issue of the scope of accreditation.

Issue No: 3/ Issue Date: 30-11-2021
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10.15 Scope of Accreditation

Log of Suspended Scopes:

Measurand	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *	Date Suspended	Date Reinstated

Log of Withdrawn Scopes:

Measurand	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *	Date Withdrawn

END

This conformity assessment body (CAB) is recorded as issuing GAC accredited certificates to organizations in the countries listed below. This list is current at the time of issue of this schedule.

United Arab Emirates	Bahrain	Saudi Arabia	Oman	Qatar	Kuwait	Yemen