

10.15 Scope of Accreditation

Issue No: 3/ Issue Date: 27-January-2021
File Manager: Hamza Khan



ACCREDITED
CALIBRATION
ISO/IEC 17025:2017
No. ACL 0006

Calibration Laboratory Accreditation No. ACL 0006

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"

GCC Laboratory for Calibration Services	
Address. 2nd Industrial City, Street 201, MOTABAQAH Complex, Area Code 11662, RIYADH, Saudi Arabia	Contact: Abdullah Saeed Tel: +966564429811 Fax: Email: Abdullah.Saeed@gcclsc.com Web Address:

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

1- **address:** 2nd Industrial City, Street 201, MOTABAQAH Complex, Area Code 11662, RIYADH, Saudi Arabia

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For the following scope:

Scope:

- 1.11 Masses
- 1.20: Pressure and vacuum measuring devices.
- 1.80 Calibration of temperature measuring equipment
- 1.84 Testing of controlled enclosures

Scope details are as follows:

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Calibration field 1: (Pressure)

.01 Pressure gauges

.02 Vacuum gauges (bourdon tube)

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) *
Absolute Pressure	(25 to 110) kPa	$(1.5 \cdot 10^{-5} \cdot p + 0.10)$ kPa p: measured pressure	DKD- R 6 – 1:2014 Internal Procedure: CP-PRE-02:2019	Mechanical and Electromechanical Gauge	P
	(25 to 7000) kPa	$(4.0 \cdot 10^{-5} \cdot p + 0.010)$ kPa P: measured pressure			
Relative Gas Pressure	(0 to 6900) kPa	$(5.0 \cdot 10^{-5} \cdot p + 0.020)$ kPa P: measured pressure			
Relative Hydraulic Pressure	(5 to 100) MPa	$0.014\% \cdot p$ P: Measured Pressure	DKD- R 6 – 1:2014 Internal Procedure: CP-PRE-03:2019	Mechanical and Electromechanical Gauge	P

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Calibration field 2: (Temperature)

.02 Base metal thermocouples

.05 Metallic resistance thermometers

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) *
Temperature	(-80 to 20) °C	0.031 °C	Internal Procedure: CP-TMP-07 :2020 Using Stirred Liquid Bath	Resistance Thermometers with direct reading devices	P
	(35 to 300) °C	0.043 °C			
Temperature	(-45 to 140) °C	0.12 °C	Internal Procedure: CP-TMP-07 :2020 Using Dry Bath		
	(140 to 660) °C	0.47 °C			

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) *
Temperature	(-80 to 20) °C	0.2 °C	Euramet cg-8 :2020 Internal Procedure: CP-TMP-07 :2020 Using Stirred Liquid Bath	Thermocouples with Direct Reading Devices	P
	(35 to 300) °C	0.3 °C			
Temperature	(-45 to 140) °C	0.4 °C	Euramet cg-8 :2020 Internal Procedure: CP-TMP-07 :2020 Using Dry Bath		
	(140 to 660) °C	0.5 °C			
	(660 to 1100) °C	2 °C			

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Calibration field 3: (Temperature)

.05 Dry block calibrators

.06 Baths

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) *
Temperature	(-80 to 300) °C	0.2 °C	Internal Procedure: CP-TMP-02:2019	Baths	P
	(-80 to 400) °C	0.4 °C	Euramet cg-13 :2017 Internal Procedure: CP-TMP-02 :2019	Dry Block Calibrator	P
	(400 to 1100) °C	2.0 °C	Euramet cg-13 :2017 Internal Procedure: CP-TMP-02 :2019	Dry Block Calibrator	P

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Calibration field 4: Mass .01 Mass standards

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) *
Conventional Mass	1 mg, 2 mg, 5 mg	0.006 mg	OIML R111-1 :2004 Internal Procedure: CP-MAS-02 :2019	F1 Class Standard Weights Except for 100 g Class Standard is F2	P
	10 mg	0.008 mg			
	20 mg	0.010 mg			
	50 mg	0.012 mg			
	100 mg	0.016 mg			
	200 mg	0.020 mg			
	500 mg	0.025 mg			
	1 g	0.03 mg			
	2 g	0.04 mg			
	5 g	0.05 mg			
	10 g	0.06 mg			
	20 g	0.08 mg			
	50 g	0.1 mg			
	100 g	0.2 mg			
	200 g	0.3 mg			
	500 g	0.8 mg			
	1 kg	1.6 mg			
	2 kg	3.0 mg			
	5 kg	8.0 mg			
	10 kg	16 mg			
20 kg	30 mg				
50 kg	80 mg				

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*: 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.

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

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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