

10.15 Scope of Accreditation

Issue No: 2/ Issue Date: 17-01-2021
File Manager: Munerah Aldurehim



ACCREDITED
CALIBRATION
ISO/IEC 17025:2017
No. ACL 0010

Calibration Laboratory Accreditation No. ACL 0010

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”

Quality Laboratories Department / Public Authority for Industry - Laboratory	
Address: Public Authority for Industry labs– Kuwait, P.O. Box 4690 Safat- 13047 Kuwait	Contact: Eng. Flaah Saad Almutairi Tel: +965-25303418 Fax: + 965 2530 3408 Email: fs.almutairi@pai.gov.kw Web Address: www.pai.gov.kw

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

1- Address: Public Authority for Industry labs– Kuwait, P.O. Box 4690 Safat- 13047 Kuwait

For the following scope:

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Scope:

Scope details are as follows:

Calibration field 1: (Weighing devices)

- .01 Precision laboratory balances
- .02 Industrial balances

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	10 mg to 220 g	0.2 mg	EURAMET cg-18:2015 Version 4.0 QW-MC-504-01	Non-Automatic Weighing Instruments	S
	> 220 g to 1000 g	0.8 mg			
	> 1000 g to 5100 g	5 mg			
	> 5100 g to 10000 g	0.01 g			
	> 10000 g to 32100 g	0.03 g			

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Calibration field 2: (Masses)

.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 QW-MC-504-02 Calibration of F ₁ , F ₂ , M ₁ , M ₂ and M ₃ Masses	Mass Standards	P
	10 mg	0.008 mg			
	20 mg	0.01 mg			
	50 mg	0.012 mg			
	100 mg	0.016 mg			
	200 mg	0.02 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				

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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	50 g	0.1 mg	OIML R111-1 :2004 QW-MC-504-02 Calibration of F ₁ , F ₂ , M ₁ , M ₂ and M ₃ Masses	Mass Standards	P
	100 g	0.16 mg			
	200 g	0.3 mg			
	500 g	0.8 mg			
	1 kg	1.6 mg			
	2 kg	3 mg			
	5 kg	8 mg			
	10 kg	16 mg			
	20 kg	30 mg			

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Calibration field 3: (Length and angle standards)**.04 Gauge blocks and accessories**

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) *
Length central length l_c variation in length	(0.5 to 100) mm	$0.09 \mu\text{m} + 0.7 \cdot 10^{-6} \cdot L$ Where L is length of gauge block in mm	Method: Mechanical comparison QW-MC-504-06, Issue No.1:2018 ISO 3650:1998	Gauge Blocks made of steel or ceramic	P

Calibration field 4: (Engineering metrology equipment)**.22 External micrometers****.27 Electronic and vernier callipers**

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Length External, Internal and Depth Measurements	(0 to 300) mm	20 μ m	QW-MC-504-05 Issue No.1:2019 ISO 13385-1-2019 ISO 13385-2-2020	Calipers (Dial, Vernier and Digital)	P
Length External Measurements	(0 to 100) mm	2 μ m	QW-MC-504-04 Issue No.1:2020 ISO 3611-2010	Outside Micrometer	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.

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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