



SCOPE OF ACCREDITATION


Calibration

National Testing & Certification Company, Kuwait

Scope Issue No: 02

Accreditation Certificate No: LB-082-CAL

Scope Validity Period: 14-05-2015 to 13-05-2018

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
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Mass Calibration

Mass Measure OIML Class E2,F1,F2,M1, from 1 mg to 1 kg ASTM Class 1,2,3,4,5,6 from 1 mg to 1 kg NIST Class F, from 1 mg to 1 kg	OIML R111-1 Comparison against OIML Class E1 from 1 mg to 1000 g	1 mg	0.002 mg	Laboratory
		2 mg	0.002 mg	
		5 mg	0.002 mg	
		10 mg	0.002 mg	
		20 mg	0.003 mg	
		50 mg	0.004 mg	
		100 mg	0.005 mg	
		200 mg	0.006 mg	
		500 mg	0.008 mg	
		1 g	0.01 mg	
		2 g	0.012 mg	
		5 g	0.015 mg	
		10 g	0.02 mg	

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.

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Mass Calibration

Mass Measure OIML Class E2,F1,F2,M1, from 1 mg to 1 kg ASTM Class 1,2,3,4,5,6 from 1 mg to 1 kg NIST Class F, from 1 mg to 1 kg	OIML R111-1 Comparison against OIML Class E1 from 1 mg to 1000 g	20 g	0.025 mg	Laboratory
		50 g	0.03 mg	
		100 g	0.05 mg	
		200 g	0.1 mg	
		500 g	0.25 mg	
		1 kg	0.5 mg	
OIML Class F2,M1,M2,M3, from 2 kg to 50 kg ASTM Class 3,4,5,6,7 from 2 kg to 50 kg NIST Class F, from 2 kg to 50 kg	OIML R111-1 Comparison against OIML Class E2, from 2 kg to 50 kg	2 kg	10 mg	Laboratory
		5 kg	25 mg	
		10 kg	50 mg	
		20 kg	100 mg	
		50 kg	250 mg	

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Calibration Field/ Measured Quantity	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Pressure Calibration				
Mass Generate (Scales,Balances & Comparator)	ASTM 898,Using	Up to 500 g	0.5 mg	Customer premises
	OIML Class E1,1mg-1kg	More than 500 g up to 1400 kg	0.01 %	
	OIML Class E2,1mg-70kg NIST Class F 500g-1400 kg			
Hydraulic Pressure (High)	BS EN 837-1:1998 Using dead weight tester method	1 bar up to 2600 bar	0.15 %	Laboratory
Pneumatic Pressure	BS EN 837-1:1998 Compare against digital Test gauge using Air	1 bar up to 200 bar	0.2 % FS	Laboratory / Customer premises
Low Pressure	BS EN 837-1:1998 Using portable Low-Pressure Controller	Up to 1000 mbar	0.2 % FS	Laboratory / Customer premises

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Pressure Calibration

Autoclave (pressure scope)	BS 2646-5:1993 Using Pressure & Temperature Data Logger	Up to 4 bar	0.2 % FS	Laboratory / Customer premises
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Force Calibration

Torque Measure	Electronic Torque Tester	10 Nm up to 1000 Nm	± 0.5% indicated value	Laboratory
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