Scope of Accreditation for Calibration

Accreditation No. : **CALIBRATION 0156**

Laboratory Status : ☑ **Permanent** ☐ **Site** ☐ **Temporary** ☐ **Mobile**

Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/ Method/Equipment/Remark
2. Mass	Conventional mass		In-house method : CM-013
	Class F1		based on OIML R 111-1 : 2004
	1 mg	6.0 µg	and UKAS LAB 14 : 2006
	2 mg	6.0 µg	
	5 mg	6.0 µg	
	10 mg	7.0 µg	
	20 mg	7.0 µg	
	50 mg	10 µg	
	100 mg	10 µg	
	200 mg	10 µg	
	500 mg	10 µg	
	1 g	20 µg	
	2 g	20 µg	
	5 g	30 µg	
	10 g	40 µg	
	20 g	40 µg	
	50 g	0.10 mg	
	100 g	0.10 mg	
	200 g	0.20 mg	
	500 g	0.50 mg	
	1 kg	1.0 mg	
	2 kg	2.0 mg	

* expressed as an uncertainty (+) which for k = 2, providing a level of confidence of approximately 95%

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Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/ Method/Equipment/Remark
2. Mass (cont.)	Conventional mass (cont.)		In-house method : CM-013
	Class F1		based on OIML R 111-1 : 2004
	5 kg	5.0 mg	and UKAS LAB 14 : 2006
	Class F2		
	10 kg	28 mg	
	20 kg	48 mg	
	Mass		In-house method : CM-013
	1 mg	6.0 µg	based on OIML R 111-1 : 2004
	2 mg	6.0 µg	and UKAS LAB 14 : 2006
	5 mg	6.0 µg	
	10 mg	7.0 µg	
	20 mg	7.0 µg	
	50 mg	10 µg	
	100 mg	10 µg	
	200 mg	10 µg	
	500 mg	10 µg	
	1 g	20 µg	
	2 g	20 µg	
	5 g	30 µg	
	10 g	40 µg	
	20 g	40 µg	

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Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/ Method/Equipment/Remark
2. Mass (cont.)	Mass (cont.)		In-house method : CM-013
	50 g	0.10 mg	based on OIML R 111-1 : 2004
	100 g	0.10 mg	and UKAS LAB 14 : 2006
	200 g	0.20 mg	
	500 g	0.50 mg	
	1 kg	1.0 mg	
	2 kg	2.0 mg	
	5 kg	5.0 mg	
	10 kg	28 mg	
	20 kg	48 mg	
	Electronic balance		In-house method : CM-014
	Up to 10 mg	20 µg	based on UKAS LAB 14 : 2006
	> 10 mg to 20 mg	22 µg	
	> 20 mg to 50 mg	24 µg	
	> 50 mg to 100 mg	29 µg	
	> 100 mg to 200 mg	34 µg	
	> 200 mg to 500 mg	41 µg	
	> 500 mg to 1 g	49 µg	
	> 1 g to 2 g	63 µg	
	> 2 g to 5 g	78 µg	
	> 5 g to 10 g	94 µg	

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Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/ Method/Equipment/Remark
2. Mass (cont.)	Electronic balance (cont.)		In-house method : CM-014
	> 10 g to 20 g	0.13 mg	based on UKAS LAB 14 : 2006
	> 20 g to 50 g	0.17 mg	
	> 50 g to 100 g	0.28 mg	
	> 100 g to 200 g	0.52 mg	
	> 200 g to 500 g	1.4 mg	
	> 500 g to 1 kg	3.1 mg	
	> 1 kg to 2 kg	5.4 mg	
	> 2 kg to 5 kg	14 mg	
	> 5 kg to 10 kg	31 mg	
	> 10 kg to 20 kg	54 mg	
	> 20 kg to 50 kg	0.14 g	
	> 50 kg to 100 kg	1.5 g	
	> 100 kg to 200 kg	3.7 g	
	> 200 kg to 500 kg	11 g	
	Mechanic balance		In-house method : CM-051
	Up to 500 g	0.90 g	based on UKAS LAB 14 : 2006
	> 500 g to 1 kg	1.0 g	
	> 1 kg to 2 kg	2.0 g	
	> 2 kg to 5 kg	4.0 g	
	> 5 kg to 7 kg	5.0 g	

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Field of Measurement	Parameter/Range/Item	Calibration and Measurement Capability*	Standard/Technique/ Method/Equipment/Remark
2. Mass (cont.)	Mechanic balance (cont.)		In-house method : CM-051 based on UKAS LAB 14 : 2006
	> 7 kg to 30 kg	12 g	
	> 30 kg to 50 kg	17 g	
	> 50 kg to 100 kg	58 g	
	> 100 kg to 300 kg	58 g	
	> 300 kg to 500 kg	83 g	
3. Temperature	Digital thermometer with sensor Resistance Temperature Detector (RTD)		In-house method : CM-003 by comparison with PRT in liquid bath and dry block
	-30 °C to 50 °C	0.14 °C	
	> 50 °C to 400 °C	0.19 °C	
	> 400 °C to 600 °C	0.21 °C	
	Thermocouple		In-house method : CM-003 by comparison with PRT in liquid bath and dry block
	-30 °C to 50 °C	0.31 °C	
	> 50 °C to 100 °C	0.51 °C	
	> 100 °C to 150 °C	0.73 °C	
	> 150 °C to 200 °C	1.0 °C	
	> 200 °C to 250 °C	1.2 °C	
	> 250 °C to 300 °C	1.5 °C	
	> 300 °C to 400 °C	2.0 °C	

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