

NO: SAMM 365

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LABORATORY LOCATION:  
(PERMANENT LABORATORY)
**METROLOGY CORPORATION MALAYSIA SDN BHD**  
**NO 3, JALAN 33/10A**  
**KAWASAN PERINDUSTRIAN IKS, MUKIM BATU**  
**68100 KUALA LUMPUR**  
**MALAYSIA.**
FIELD OF CALIBRATION: **MASS**

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

\* The expanded uncertainties are based on an estimated confidence probability of approximately 95% and have a coverage factor of  $k=2$  unless stated otherwise.

SCOPE OF CALIBRATION: **MASS**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
<b>MASS</b>  Standard Weight	Nominal Value		1. Calibrations may be given in other SI units.  2. Intermediate values tabulated can be calibrated with uncertainty interpolated from the next higher and lower nominal values tabulated.
	1 mg	0.006 mg	
	2 mg	0.006 mg	
	5 mg	0.006 mg	
	10 mg	0.006 mg	
	20 mg	0.012 mg	
	50 mg	0.012 mg	
	100 mg	0.012 mg	
	200 mg	0.02 mg	
	500 mg	0.02 mg	
	1 g	0.04 mg	
	2 g	0.04 mg	
	5 g	0.05 mg	
	10 g	0.05 mg	
	20 g	0.08 mg	
	50 g	0.25 mg	
	100 g	0.3 mg	
	200 g	0.5 mg	
	500 g	1.2 mg	
	1 kg	2 mg	
2 kg	4 mg		
5 kg	12 mg		
10 kg	17 mg		
20 kg	55 mg		

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SCOPE OF CALIBRATION: MASS

SITE: CATEGORY 1

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
<b>MASS</b>  Standard Weight	1 kg 2 kg 5 kg 10 kg 20 kg	0.19 g 0.19 g 0.23 g 0.31 g 0.32 g	1. Calibrations may be given in other SI units.  2. Intermediate values tabulated can be calibrated with uncertainty interpolated from the next higher and lower nominal values tabulated.
Weighing Balance	Up to 200 g Up to 600 g Up to 1000 g Up to 2000 g Up to 5000 g Up to 10 000 g Up to 20 000 g Up to 32 000 g Up to 300 kg Up to 500 kg	1 mg 27 mg 27 mg 27 mg 64 mg 0.3 g 0.3 g 5 g 40 g 100 g	1. The calibration procedure covers tests for linearity error, repeatability, off-centre loading and hysteresis. 2. The CMC is estimated from the contributions from the first three tests and the standards used. 3. Weighing balances with ranges intermediate from the values tabulated can be calibrated with uncertainty interpolated from the next higher and lower ranged values.

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Signatory:

1. Rafidah Hood