


NO: SAMM 835(Issue 2, 20 August 2025 replacement
of SAMM 835 dated 20 August 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE: 	NL Laboratory Department, NL Scientific Instruments Sdn. Bhd. No. 16, Lorong Sungai Puloh 1A/KU 6 Taman Teknologi Gemilang Kawasan Perindustrian Sungai Paloh 42100 Klang, Selangor , 42100, SELANGOR MALAYSIA
ACCREDITED SINCE :	20 AUGUST 2025

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

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).

SITE LOCATION (HQ)	1. CATEGORY III
FIELD(S) OF CALIBRATION :	FORCE, HEAT & TEMPERATURE, MASS

SCOPE OF CALIBRATION : FORCE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Universal Testing Machine / Compression Testing Machine (compression Mode Only)	0 kN to 1000 kN	1.4 kN	Calibrated by using load cells with reference to ISO 7500- 1, BS EN 12390-4
	above 1000 kN to 2000 kN	2.8 kN	Calibrated by using load cells with reference to ISO 7500- 1, BS EN 12390-4
	above 2000 kN to 3000 kN	14 kN	Calibrated by using load cells with reference to ISO 7500- 1, BS EN 12390-4

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	above 3000 kN to 4000 kN	19 kN	Calibrated by using load cells with reference to ISO 7500- 1, BS EN 12390-4

SCOPE OF CALIBRATION : MASS

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Weighing Balance	Up to 200 g	0.0017 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	200 g to 500 g	0.01 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	500 g to 600 g	0.02 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	600 g to 3 kg	0.22 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	3 kg to 6 kg	0.3 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	6 kg to 10 kg	0.4 g	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	10 kg to 15 kg	0.0006 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	15 kg to 30 kg	0.0009 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	30 kg to 60 kg	0.005 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	60 kg to 100 kg	0.08 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	100 kg to 150 kg	0.09 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)
	150 kg to 300 kg	0.13 kg	Calibrated by using standard weights with reference to ASTM E898 - 88 (2020)

SCOPE OF CALIBRATION : HEAT & TEMPERATURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Temperature Controlled Enclosure	0 °C to 150 °C	1.6 °C	Calibrated by using temperature recorder with Thermocouple Wire (Type K) with reference to TLAS G-20

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