Issue date: 16 June 2025
Valid Until: -

NO: SAMM 588
(Issue 2, 16 June 2025 replacement
of SAMM 588 dated 08 October 2024)

LABORATORY LOCATION/ CENTRAL OFFICE:	Calibration Lab, Samsung SDI Energy Malaysia Sdn. Bhd. Lot 635 & 660 Kawasan Perindustrian Tuanku Jaafar 71450 Sungai Gadut, Negeri Sembilan , 71450, NEGERI SEMBILAN MALAYSIA
ACCREDITED SINCE :	16 JUNE 2025
FIELD(S) OF CALIBRATION:	DIMENSIONAL ELECTRICAL TEMPERATURE

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).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION	Calibration Lab, Samsung SDI Energy Malaysia Sdn. Bhd. Lot 635 & 660 Kawasan Perindustrian Tuanku Jaafar 71450 Sungai Gadut, Negeri Sembilan , 71450, Negeri Sembilan
FIELD(S) OF CALIBRATION :	DIMENSIONAL, ELECTRICAL, HEAT & TEMPERATURE

SCOPE OF CALIBRATION : DIMENSIONAL

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Caliper (external)	Up to 150mm Up to 300mm	0.01 mm 0.02 mm	Calibrated by using caliper checkers as standard according to JIS B7507:2016
Dial Gauge	0.001 to 1 mm 0.01 to 10 mm	0.0007 mm 0.005 mm	Calibrated by using digital gauge tester as standards according to JIS B7503:2017

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Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Digital Displacement Indicator	0.001 to 25 mm	0.002 mm	Calibrated by using digital gauge tester as standards with reference JIS B7536:1982
External Micrometer	Up to 25mm	0.002 mm	Calibrated using gauge block and optical parallel as standards according to JIS B7502:2016

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SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Electrical Measuringinstrument A. Dc Voltage	300 mV 3V 30 V 300 V	0.02 mV 0.2 mV 2 mV 20 mV	1. Generate used calibrator Fluke 5522A 2. Refer standards according to EURAMET cg-15
B. Ac Voltage	300 mV 3 V 30 V 300 V	50 Hz 1 kHz 0.02 mV 0.02 mV 0.2 mV 0.2 mV 2 mV 2 mV 20mV 20 mV	1. Generate used calibrator Fluke 5522A 2. Refer standards according to EURAMET cg-15
C. Resistance	100 ? 1 k ? 10 k ? 100 k ? 1 M ? 10 M ?	0.002 ? 0.02 ? 0.2 ? 0.3 ? 0.02 k ? 0.3 k ?	1. Calibrator Fluke 5522A
D. Dc Current	300 mA 3 mA 30 mA 0.3 A 10 A	0.02 mA 0.2 mA 0.002 mA 0.02 mA 0.2 mA 2 mA	1. Generate used calibrator Fluke 5522A 2. Refer standards according to EURAMET cg-15

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SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Temperature Indicator Type T type K Pt 100	0 °C to 400 °C 0 °C to 1200 °C 0 °C to 600 °C	0.26°C 0.29°C 0.11°C	By electrical simulation using Beamex Multifunction MC2-TE Calibrator base on EURAMET cg-11

SITE LOCATION (HQ)	1. Calibration Lab, Samsung SDI Energy Malaysia Sdn. Bhd. Lot 635 & 660 Kawasan Perindustrian Tuanku Jaafar 71450 Sungai Gadut, Negeri Sembilan,MALAYSIA
FIELD(S) OF CALIBRATION :	ELECTRICAL,MASS,TEMPERATURE

SCOPE OF CALIBRATION : MASS

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Electronic Weighing Scale	Up to 250 g Up to 500 g Up to 1 kg Up to 20 kg	0.0024 g 0.005 g 0.010 g 0.001 kg	The weighing balance and scales are calibrated according to EURAMET cg- 18

SCOPE OF CALIBRATION : TEMPERATURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Temperature Indicator Type T Type K Pt 100	0 °C to 400 °C 0 °C to 1200 °C 0 °C to 600 °C	0.26°C 0.29°C 0.11°C	By electrical simulation using Beamex Multifunction MC2-TE Calibrator base on EURAMET cg-11

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SCOPE OF CALIBRATION : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks