Issue date: 06 April 2025
Valid Until: -

NO: SAMM 824

LABORATORY LOCATION/ CENTRAL OFFICE:	NSF Engineering Sdn. Bhd. PLO 819A, Jalan Platinum 4, Platinum Business Park, Kawasan Perindustrian Pasir Gudang, Zon 12B, , 81700, JOHOR MALAYSIA
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	MECHANICAL
FIELD(S) OF CALIBRATION:	ELECTRICAL PRESSURE 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:	NSF Engineering Sdn. Bhd. PLO 819A, Jalan Platinum 4, Platinum Business Park, Kawasan Perindustrian Pasir Gudang, Zon 12B, , 81700, Johor
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

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

CENTRAL LOCATION	NSF Engineering Sdn. Bhd. PLO 819A, Jalan Platinum 4, Platinum Business Park, Kawasan Perindustrian Pasir Gudang, Zon 12B, , 81700, Johor
FIELD(S) OF CALIBRATION :	ELECTRICAL, PRESSURE, HEAT & TEMPERATURE

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SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Measuring Instruments (dc Voltage)	0 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1000 V	22 mV/V + 1.6 mV 14 mV/V + 1.8 mV 14 mV/V + 48 mV 23 mV/V + 23 mV 21 mV/V + 2.2 mV **Note :** Apply EOS for on-site	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)
Measuring Instrument (ac Voltage)	33 mV to 750 V	See **Matrix D** **Note :** Apply EOS for on-site.	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)
	Range / Frequency 33 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 750 V	**10 Hz to 45 Hz** 0.33 mV / V 0.32 mV / V 0.34 mV / V - -	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)
Measuring Instrument (dc Current)	0 mA to 330 mA 330 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 1.1 A 1.1 A to 3 A 3 A to 10 A	0.17 nA / A + 23 nA 0.11 mA / A + 57 mA 0.11 mA / A + 0.29 mA 0.11 mA / A + 2.9 mA 0.23 mA / A + 47 mA 0.43 mA / A + 46 mA 0.57 mA / A + 0.57 mA **Note :** Apply EOS for on-site.	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)

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Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Measuring Instrument (ac Current)	33 mA to 10 A	See **Matrix E** **Note :** Apply EOS for on-site.	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)
	Range / Frequency 33 mA to 330 mA 330 mA to 3.3 mA 3.3 mA to 33 mA 330 mA to 1.1 A 1.1 A to 3 A 3 A to 10 A	**10 Hz to 20 Hz**	Generate using Fluke 5522A based on EURAMET cg-15, Version 3 (02/2015)

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SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks

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SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks