

Schedule

Issue date: 19 March 2025
Valid Until: -



NO: SAMM 1029

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LABORATORY LOCATION/ CENTRAL OFFICE:	Alpha Instrumentation Sdn. Bhd. B-10-13, I-SOVO Persiaran Multimedia Seksyen 7 40000 Shah Alam, Selangor , 40000, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF CALIBRATION:	TEMPERATURE MEASUREMENT

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	Alpha Instrumentation Sdn. Bhd. B-10-13, I-SOVO Persiaran Multimedia Seksyen 7 40000 Shah Alam, Selangor , 40000, Selangor
FIELD(S) OF CALIBRATION :	HEAT & TEMPERATURE,

SCOPE OF CALIBRATION : TEMPERATURE MEASUREMENT

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
(type J. T, K)	-30 °C to 140 °C	None	Resistance Thermometer/
	-30 °C to 140 °C	None	Thermocouple in calibration
	-30 °C to 140 °C	None	block with reference to
	-30 °C to 140 °C	None	ASTM E220-19.
Detectors (rtd)	-30 °C to 140 °C	None	Resistance Thermometer/
	-30 °C to 140 °C	None	Thermocouple in calibration

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Enclosure	-30 °C to 140 °C	None	block with reference to
	-30 °C to 140 °C	None	ASTM E644-11.
	100 °C to 300 °C	1.4°C	Thermocouple with
	100 °C to 300 °C	None	reference to AS 2853-
	100 °C to 300 °C	None	1986
	-40 °C to 180 °C	None	using
	-40 °C to 180 °C	None	Temperature
	-40 °C to 180 °C	None	and Humidity
	-40 °C to 180 °C	None	Recorder with
	-40 °C to 180 °C	None	Thermocouple
	-40 °C to 180 °C	None	based on
	-40 °C to 180 °C	None	AS 2853-1986
	100 °C to 200 °C	1.0°C	reference to
	200 °C to 400 °C	1.1°C	AS 2853-1986.
	400 °C to 600 °C	1.9°C	
	600 °C to 800 °C	4.2°C	
	800 °C to 1000 °C	4.3°C	
	1000 °C to 1200 °C	None	
	None	None	and Thermocouple
	0 °C to 250 °C	1.7°C	wire based reference
Instruments (with Sensors)	0 °C to 250 °C	None	to TLAS G-20-1/02-
	0 °C to 250 °C	None	08
	-30 °C to 140 °C	None	Resistance Thermometer/
	-30 °C to 140 °C	None	Thermocouple in calibration
	-30 °C to 140 °C	None	block with reference to
Resistance Temperature	-30 °C to 140 °C	None	ASTM E220-19 & ASTM
	-30 °C to 140 °C	None	E644-11.
	-30 °C to 140 °C	1.4°C	Comparison with Standard
	-30 °C to 100 °C	1.1°C	Comparison with Standard
	-40 °C to 180 °C	2°C	Calibrate by
Temperature Controlled	None	None	Using Midi Logger
	-30 °C to 250 °C	None	Calibrate by
	-30 °C to 140 °C	1.4°C	Comparison with Standard
Temperature Measuring	-30 °C to 140 °C	1.4°C	Comparison with Standard
Thermocouples	-30 °C to 140 °C	1.4°C	Comparison with Standard

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