

Schedule

KSA Metrology Pte Ltd
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Singapore 415941

Certificate No. : LA-2009-0444-C
Issue No. : 20
Date : 16 January 2026
Expiry of Certificate : 22 August 2028
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FIELD OF TESTING: Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENTS/RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
A Temperature		
1. Temperature Sensor (RTD)		
-80 °C	KSA23/014A (Rev 0)	0.30 °C
-30 °C to 140 °C	KSA23/001A (Rev 0)	0.34 °C
>140 °C to 200 °C	KSA23/001A (Rev 0)	0.36 °C
2. Electrical simulation for RTD controller / display / recorder transmitter / etc.		
-200 °C to 800 °C	KSA23/003A (Rev 0)	0.41 °C
3. Thermometer (digital display)		
-80 °C	KSA23/014A (Rev 0)	0.30 °C
-30 °C to 140 °C	KSA23/007A (Rev 0) & KSA23/006A (Rev 0)	0.34 °C
>140 °C to 200 °C		0.36 °C
4. Thermometer (analog display)	KSA23/029A (Rev 0)	
-30 °C to 140 °C		1.1 °C
>140 °C to 200 °C		1.1 °C
5. Loop line calibration (sensor & readout)		
-80 °C	KSA23/014A (Rev 0)	0.30 °C
-30 °C to 140 °C	KSA23/004A (Rev 0)	0.34 °C
>140 °C to 200 °C	KSA23/004A (Rev 0)	0.36 °C

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6. Dry block heater 25 °C to 140 °C	KSA23/025A (Rev 0)	0.30 °C
7. Temperature mapping (Autoclave, Climatic chamber, Fridge & Freezer, Oven, Incubator, Storage area, etc....) -80 °C -30 °C to 140 °C >140 °C to 200 °C	KSA23/008A (Rev 0) & KSA23/009A (Rev 0) & KSA23/010A (Rev 0)	0.70 °C 0.44 °C 0.45 °C
8. Humidity instruments (sensors, loggers, thermo hygrometer)	KSA23/021A (Rev 0) & KSA23/030A (Rev 0) & KSA23/027A (Rev 0) & KSA23/032A (Rev 0)	0.60 °C 2.5 % relative humidity
a) at 20 to 40 °C (30 to 90) % relative humidity		
b) Salt solutions: saturated at 23 +/- 3 °C (10 and 35) % relative humidity (50; 75 and 95) % relative humidity	KSA23/018A (Rev 0) & KSA23/032A (Rev 0)	1.2 % relative humidity 1.6 % relative humidity
9. Humidity mapping (20 to 90) % relative humidity	KSA23/010A (Rev 0)	2.2 % relative humidity
10. Liquid in Glass Thermometer Minimum scale division: 0.1 °C		
Partial Immersion	KSA23/028A (Rev 0)	0.21 °C
Full Immersion	KSA23/022A (Rev 0)	0.42 °C
0 °C		
30 °C to 200 °C		

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B Mechanical		
1. Pressure gauges (digital display)	KSA23/011A (Rev 0)	
(-900 to 0) mbar (-0.9bar to 0bar)		3.0 mbar (0.003bar)
(0 to 10 000) mbar (0bar to 10bar)		4.1 mbar (0.0041bar)
(10 000 to 20 000) mbar(10bar to 20bar)		6.0 mbar (0.006bar)
2. Pressure gauges (analog display)	KSA23/017A (Rev 0)	
(-900 to 0) mbar	(-0.9bar to 0bar)	13 mbar
(0 to 4 000) mbar	(0bar to 4bar)	14 mbar
3. Absolute pressure instruments	KSA23/016A (Rev 0)	
(100 to 1 000) mbar abs	(0.1bar to 1bar)	4.7 mbar
(1 000 to 11 000) mbar abs	(1bar to 11bar)	5.2 mbar
(11 000 to 21 000) mbar abs	(11bar to 21bar)	7.0 mbar
4. Differential gauges	KSA23/012A (Rev 0)	
(0 to 250) Pascal		5 Pascal
(250 to 2 500) Pascal		23 Pascal
5. Balances and Weighing Scales	KSA23/039A (Rev 1)	
(up to 220) g		0.0006 g
(>220 to 500) g		0.002 g
(>500 to 6200) g		0.02 g
(>6200 to 12000) g		0.2 g
(>12000 to 40000) g		0.4 g
(>40 to 150) kg		0.04 kg
(>150 to 1000) kg		0.3 kg
6. Standard Weights		
OIML Class M1	KSA23/040A (Rev 1)	
1kg		17 mg
2kg		30 mg
5kg		80 mg
10kg		160 mg

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C TIME Stopwatch & Bench Timers Equipment's Timer's (5 to 3600) s	KSA23/013.1A (Rev 0) KSA23/013.2A (Rev 1)	0.25 s

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95 %.

Approved signatories:

Mr. Roedil Philip Alquerro GELERA B5 & B6

Mr. Eugene Dumali BALDOMAR For all items (except for B5 & B6)

Note:

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025. A laboratory's fulfilment 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 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.