

Schedule

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Certificate No. : LA-2009-0444-C
Issue No. : 13
Date : 10 November 2021
Page : 1 of 3

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 -25 °C to 140 °C 141 °C to 200 °C	LCS.A10/014A (Rev0) & LCS.A09/001A (Rev4)	0.42 °C 0.32 °C 0.38 °C
2. Electrical simulation for RTD controller / display / recorder transmitter / etc. -200 °C to 800 °C	LCS.A09/003A (Rev2)	0.41 °C
3. Thermometer (digital display) -80 °C -25 °C to 140 °C 141 °C to 200 °C	LCS.A10/014A (Rev0) & LCS.A09/007A (Rev1) & LCS.A09/006A (Rev2)	0.40 °C 0.30 °C 0.36 °C
4. Thermometer (analog display) -25 °C to 140 °C 141 °C to 200 °C	LCS.A15/029A (Rev0)	1.3 °C 1.3 °C
5. Loop line calibration (sensor & readout) -80 °C -25 °C to 140 °C 141 °C to 200 °C	LCS.A10/014A (Rev0) & LCS.A09/004A (Rev2)	0.40 °C 0.30 °C 0.36 °C

Schedule



Certificate No.: LA-2009-0444-C

Issue No.: 13

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Page : 2 of 3

MEASURED QUANTITIES/ INSTRUMENTS/RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
6. Dry block heater 25 °C to 140 °C	LCS.A10/025A (Rev1)	0.45 °C
7. Temperature mapping (Autoclave, Climatic chamber, Fridge & Freezer, Oven, Incubator, Storage area, etc....) -80 °C -25 °C to 140 °C 141 °C to 200 °C	LCS.A09/008A (Rev0) & LCS.A09/009A (Rev1) & LCS.A09/010A (Rev1)	0.70 °C 0.59 °C 0.65 °C
8. Humidity instruments (sensors, loggers, thermo hygrometer) 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	LCS.A09/021A (Rev1) & LCS.A12/030A (Rev0) & LCS.A09/027A (Rev1) & LCS.A12/032A (Rev0) LCS.A09/018A (Rev1) & LCS.A12/032A (Rev0)	0.52 °C 5.4 % relative humidity 1.2 % relative humidity 1.6 % relative humidity
9. Humidity mapping 30 to 90 % relative humidity (from 20 to 40 °C)	LCS.A09/010A (Rev1)	5.7 % relative humidity
10. Liquid in Glass Thermometer Minimum scale division: 0.1 °C Partial Immersion Full Immersion 0 °C 30 °C to 200 °C	LCS.A13/028A (Rev3) LCS.A16/022A (Rev1)	0.21 °C 0.42 °C

Schedule



Certificate No.: LA-2009-0444-C

Issue No.: 13

Date : 10 November 2021

Page : 3 of 3

MEASURED QUANTITIES/ INSTRUMENTS/RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
B Mechanical		
1. Pressure gauges (digital display) (-900 to 0) mbar (0 to 10 000) mbar (10 000 to 20 000) mbar	LCS.A09/011A (Rev 6)	3.0 mbar 4.1 mbar 6.0 mbar
2. Pressure gauges (analog display) (-900 to 0) mbar (0 to 4 000) mbar	LCS.A15/017A (Rev 3)	13 mbar 14 mbar
3. Absolute pressure instruments (100 to 1 000) mbar abs (1 000 to 11 000) mbar abs (11 000 to 21 000) mbar abs	LCS.A12/016A (Rev 3)	4.7 mbar 5.2 mbar 7.0 mbar
4. Differential gauges (0 to 250) Pascal (250 to 2 500) Pascal	LCS.A09/012A (Rev 5)	5 Pascal 23 Pascal
C Time		
1. Digital or Analogue timer & stopwatch (5 to 3600) Seconds	LCS.A09/013A (Rev 1)	0.25 s

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

Approved signatories

Mr. Charles-Marie MARIOTTI	A1 - A10 / B1 - B4
Mr. Eugene Dumali BALDOMAR	For all items
Mr. Wong Sai KEE	A1 – A5

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.