



THE HASHEMITE KINGDOM OF
JORDAN

Accreditation Unit

Annex (1)

Updated on: 19/02/2019

To the Accreditation Certificate No. JAS Cal. – 004

Dated 2018-03-22

For Laboratory Rum for Calibration

Scope of Accreditation

Calibration of temperature



Permanent Calibration

Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Temperature			
Temperature Calibrators	-80 °C ≤ T < -50 °C	0.59 °C	Comparison with Standard RTD SOP-T012, rev.1/a EURAMET Calibration Guide No. 13 Version 4.0 (09/2017) Revision date: 03/01/2018 Effective date: 07/01/2018
	-50 °C ≤ T < -25 °C	0.26 °C	
	-25 °C ≤ T < 0 °C	0.26 °C	
	0 °C ≤ T < 25 °C	0.26 °C	
	25 °C ≤ T < 50 °C	0.3 °C	
	50 °C ≤ T < 100 °C	0.3 °C	
	100 °C ≤ T < 200 °C	0.38 °C	
	200 °C ≤ T < 300 °C	0.57 °C	
300 °C ≤ T < 400 °C	0.66 °C		



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Permanent & On-Site Calibration (Except for Autoclaves, only on-site)

Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Temperature Controllers	-80 °C ≤ T < -50 °C -50 °C ≤ T < -25 °C	0.59 °C 0.26 °C	Comparison with Standard RTD SOP-T012, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	-25 °C ≤ T < 140 °C	0.5 °C	Using Dry Block SOP-T039, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	150 °C ≤ T < 300 °C 300 °C ≤ T < 400 °C	0.41 °C 0.58 °C	Using Dry Block SOP-T039, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018



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Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Thermometers/ RTD thermometer	-80 °C ≤ T < -50 °C -50 °C ≤ T < -25 °C	0.59 °C 0.26 °C	Comparison with Standard RTD SOP-T055, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	-25 °C ≤ T < 140 °C	0.5 °C	Using Dry Block SOP-T054, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	150 °C ≤ T < 300 °C 300 °C ≤ T < 400 °C	0.41 °C 0.58 °C	Using Dry Block & Standard RTD SOP-T054, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
Freezer / Refrigerators	-25 °C ≤ T < 8 °C	1.0 °C	Using Thermometer SOP-069, rev.1/a EURAMET cg-8 Version 2.1 (10/2011) Revision date:03/01/2018 Effective date:07/01/2018
Thermocouples / Temperature Sensors with Indicators	-80 °C ≤ T < -50 °C -50 °C ≤ T < -25 °C	0.58 °C 0.26 °C	Comparison with Standard RTD SOP-T055, rev.1/a EURAMET cg-8 Version 2.1 (10/2011) Revision date:03/01/2018 Effective date:07/01/2018
	-25 °C ≤ T < 140 °C	0.5 °C	Using Dry Block & Standard RTD SOP-T130, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	150 °C ≤ T < 300 °C 300 °C ≤ T < 400 °C	0.41 °C 0.58 °C	Using Dry Block & Standard RTD SOP-T130, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018



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Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Totally immersed Liquid in Glass Thermometer	$-25^{\circ}\text{C} \leq T < 140^{\circ}\text{C}$	0.5 °C	Using Dry Block SOP-T054, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	$150^{\circ}\text{C} \leq T < 400^{\circ}\text{C}$	1.0 °C	Using Dry Block & Standard RTD SOP-T054, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
Data Loggers with External Sensors	$-80^{\circ}\text{C} \leq T < -50^{\circ}\text{C}$ $-50^{\circ}\text{C} \leq T < -25^{\circ}\text{C}$	0.59 °C 0.26 °C	Comparison with Standard RTD SOP-T055, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	$-25^{\circ}\text{C} \leq T < 140^{\circ}\text{C}$	0.5 °C	Using Dry Block & Standard RTD SOP-T130, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
	$150^{\circ}\text{C} \leq T < 300^{\circ}\text{C}$ $300^{\circ}\text{C} \leq T < 400^{\circ}\text{C}$	0.41 °C 0.58 °C	Using Dry Block & Standard RTD SOP-T130, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018
Incubators	$25^{\circ}\text{C} \leq T < 50^{\circ}\text{C}$ $50^{\circ}\text{C} \leq T < 70^{\circ}\text{C}$	1.0 °C 0.6 °C	Using Thermometer SOP-T136, rev.1/a EURAMET/cg-20/v.01 Revision date:03/01/2018 Effective date:07/01/2018
Autoclaves ²	$108^{\circ}\text{C} \leq T < 134^{\circ}\text{C}$	0.50 °C	Using Dry Block SOP-T070, rev.1/a Revision date:03/01/2018 Effective date:07/01/2018



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Temperature Gauges	$-10^{\circ}\text{C} \leq T < 140^{\circ}\text{C}$	0.50 °C	Using Dry Block SOPT012, rev.1/a EURAMET Calibration Guide No. 13 Version 4.0 (09/2017) Revision date:03/01/2018 Effective date:07/01/2018
Ovens	$50^{\circ}\text{C} \leq T < 100^{\circ}\text{C}$	0.6 °C	Using Thermometer SOP-T029, rev.1/a EURAMET/cg-20/v.01 Revision date:03/01/2018 Effective date:07/01/2018
	$100^{\circ}\text{C} \leq T < 300^{\circ}\text{C}$	1 °C	Using Thermometer SOP-T029, rev.1/a EURAMET/cg-20/v.01 Revision date:03/01/2018 Effective date:07/01/2018
Liquid baths	$-10^{\circ}\text{C} \leq T < -25^{\circ}\text{C}$ $-25^{\circ}\text{C} \leq T < 0^{\circ}\text{C}$ $0^{\circ}\text{C} \leq T < 25^{\circ}\text{C}$ $25^{\circ}\text{C} \leq T < 50^{\circ}\text{C}$ $50^{\circ}\text{C} \leq T < 100^{\circ}\text{C}$	1.0 °C 1.0 °C 1.0 °C 0.4 °C 0.6 °C	using Thermometer SOP-T030, rev.1/a EURAMET/cg-20/v.01 Revision date:03/01/2018 Effective date:07/01/2018
	$100^{\circ}\text{C} \leq T < 120^{\circ}\text{C}$	0.38 °C	Using Standard RTD Thermometer SOP-T030, rev.1/a EURAMET/cg-20/v.01 Revision date:03/01/2018 Effective date:07/01/2018

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.



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List of employees in the laboratory who are technically responsible for issuing the calibration certificates in the scope of accreditation:

1. Husam Hamdan : Technical Manger
2. Murshed Al-deiri :Lab Supervisor
3. Huda Shaltaf :Quality Manager
4. Bashar Drouf: Calibration & Qualification engineer
5. Fares Younis : Calibration & Qualification engineer