



Annex (1)

Updated on: 2019-02-19

To the Accreditation Certificate No. **JAS Cal. - 005** Dated **2018-05-08**

For **SAMA** for Calibration and Qualification  
Scope of Accreditation  
Calibration of Temperature and Pressure

Permanent & On-Site Calibration

<i>Measurand</i>	<i>Measuring Range</i>	<i>Calibration and measurement Capability (CMC)<sup>a</sup></i>	<i>Measurement Procedure</i>
<b>Temperature</b>			
<b>Thermocouples</b>	-40 °C to +140 °C	0.287 °C	<b>EURAMET cg-8</b> SP14-1, Issue 2, revision 3, Issue date 10/08/2017, effective date: 28/11/2017
	-23 °C to +150 °C	1.112 °C	
	-30 °C to +150 °C	0.966 °C	
	50 to < 150 °C	0.531 °C	
	150 to < 300 °C	0.702 °C	
	300 to 400 °C	0.905 °C	
	50 to < 150 °C	0.952 °C	
	150 to < 250 °C	1.269 °C	
	250 to < 350 °C	1.595 °C	
<b>Totally immersion Glass Thermometers</b>	-20 °C to +110 °C	0.5 °C	<b>OIML 133</b> SP14-3, Issue 2, revision 3, Issue date 10/08/2017, effective date: 28/11/2017
	-20 °C to +110 °C	1.0 °C	
<b>Totally immersed Glass Thermometers</b>	-20 °C to +110 °C	0.966 °C	<b>OIML 133</b> SP14-3, Issue 2, revision 3, Issue date 10/08/2017, effective date: 28/11/2017
	50 °C to +110 °C	0.507 °C	
	50 °C to +110 °C	0.826 °C	
<b>Data Loggers</b>	5 °C to < 25 °C	0.684 °C	<b>EURAMET cg-8</b> SP14-4, Issue 2, revision 2, Issue date 10/08/2017, effective date: 18/09/2017
	25 °C to < 40 °C	0.684 °C	
	40 °C to +50 °C	0.894 °C	
	0 °C to < 25 °C	0.577 °C	
	25 °C to < 45 °C	0.779 °C	
	45 °C to +60 °C	0.964 °C	



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Scope of Accreditation  
Calibration of Temperature and Pressure**

<i>Measurand</i>	<i>Measuring Range</i>	<i>Calibration and measurement Capability (CMC) <sup>a</sup></i>	<i>Measurement Procedure</i>
<b>Pressure</b>			
<b>Pressure</b>	1 – < 100 Pa	2.829 Pa	SP14-5, Issue 2, revision 4, Issue date 10/08/2017, effective date: 28/11/2017
	100 – 15000 Pa	9.327 Pa	
	0.1 – 50 Bar	0.113 Bar	
<b>Pressure</b>	0.1 – 50 Bar	0.281 Bar	EURAMET cg-17 SP14-5, Issue 2, revision 4, Issue date 10/08/2017, effective date: 28/11/2017
	0.1 – 50 Bar	0.281 Bar	
<b>Vacuum Pressure</b>	-15000 to > -100 Pa	9.678 Pa	SP14-6, Issue 2, revision 4, Issue date 10/08/2017, effective date: 28/11/2017
	-100 to -1 Pa	2.829 Pa	
	-0.8 to 0.1 Bar	0.013 Bar	
	-0.8 to 0.1 Bar	0.013 Bar	

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.

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

1. Malek Shamlawe / Technical Manager
2. Mohammed Naji / Lab Supervisor
3. Essa Jamal/ Lab Supervisor
4. Anas Dahshan / Calibration Technician
5. Ismael Al-Khateeb / Calibration Technician
6. Mohammad Adnan / Calibration Technician
7. Mohammad Idress / Calibration Technician
8. Mohammad Al-Jabali / Calibration Technician