



Annex (1)

To the Accreditation Certificate No. **JAS Cal. - 007** Dated **01-10-2024**

For Precision Measurement Equipment Laboratories (PMEL),

Royal Jordanian Air Force (RJAF) / Zarqa

Scope of Accreditation

In the Fields of Mass, Temperature, Pressure and Length Calibration

(Permanent and On-Site)

Measurand	Measuring Range	Calibration and measurement Capability (CMC) <sup>a</sup>	Calibration Methods/ Standards/ Remarks
<b>Mass</b>			
Non-Automatic Weighing Instruments	1 mg < m ≤ 20 g	0.2 mg	In House Method RJAF-ISO-1, Revision 1.7, Date 01 March 2021, for weight pieces according to OIML R111, Class E1 Where m is the measured mass
	20 g < m ≤ 50 g	0.4 mg	
	50 g < m ≤ 100 g	0.6 mg	
	100 g < m ≤ 200 g	1.2 mg	
	200 g < m ≤ 500 g	4 mg	
	500 g < m ≤ 1 kg	6 mg	
	1 kg < m ≤ 2 kg	12 mg	
	2 kg < m ≤ 5 kg	29 mg	
	5 kg < m ≤ 10 kg	60 mg	
	10 kg < m ≤ 20 kg	0.2 g	In House Method RJAF-ISO-1, Revision 1.7, Date 01 March 2021, for weight pieces according to OIML R111, Class E2 Where m is the measured mass
20 kg < m ≤ 32 kg	0.3 g		
<b>Temperature</b>			
Dry Well (Block) Calibrator	(-50 TO 0) °C	0.18 K	In house method RJAF-ISO-2, revision 1.2 date 04 December 2023 according to EURAMET CG No. 13, Version 4.0 (09/2017)
	(>0 TO 40) °C	0.12 K	
	(>40 TO 200) °C	0.18 K	
	(>200 TO 450) °C	0.27K	



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<b>Temperature</b>			
Resistance thermometers, direct-reading thermometers, and data loggers with external sensors	(-20 to 0) °C	0.33 K	In House Method RJAF-ISO-3, Revision 1.0 Date 03 January 2023.
	(>0 to 33) °C	0.32 K	
	(>33 to 150) °C	0.10 K	
	(>150 to 300) °C	0.2 K	
	(>300 to 350) °C	0.3 K	
Thermocouples with direct reading devices	(-20 to 0) °C	0.33 K	In House Method RJAF-ISO-3, Revision 1.0 Date 03 January 2023 According to EURAMET Calibration Guide No. 8 Version 3.1 (02/2022).
	(>0 to 33) °C	0.32 K	
	(>33 to 150) °C	0.15 K	
	(>150 to 300) °C	0.25 K	
	(>300 to 350) °C	0.35 K	
<b>Pressure</b>			
Pressure Instrument	(0 to 21)bar	3 mbar	In house method RJAF-ISO-4, revision 1.0 date 03 January 2023 According to EURAMET Calibration Guide No. 17. Version 4.1 (09/2022) and Guideline DKD-R 6-1, edition 03/2014
	(>21 to 35)bar	5 mbar	
	(>35 to 49)bar	7 mbar	
	(>49 to 62)bar	9 mbar	
	(>62 to 68.9)bar	10 mbar	
<b>Length</b>			
Outside Micrometers	(0 to 500) mm	(2+L/100) μm	In House Method Rjaf-Iso-5, Revision 1.0 Date 03 January 2023. L: Nominal Length

a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of k = 2.



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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- Eng. Tareq Al-Qaisi: PMEL Manager.
- 2- Eng. Mohammad Al-Momani: Quality Manager.
- 3- Eng. Hamzah Theeban: Technical Manager.
- 4- Ali Al-Hazaimeh: Lab Officer.
- 5- Ja'far Aamih Al-Amri: PQA.
- 6- Shafe' Abandah: Company Officer