



Annex (1)

Updated on: 27-03-2025

To the Accreditation Certificate No. **JAS Cal. - 007** Dated **20-03-2024**

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) ^a	Calibration Methods/ Standards/ Remarks
Mass (Permanent and On-Site)			
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	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
	10 kg < m ≤ 20 kg	0.2 g	
	20 kg < m ≤ 32 kg	0.3 g	
Temperature (Permanent and On-Site)			
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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Temperature (Permanent and On-Site)			
Resistance thermometers, direct-reading thermometers, and data loggers with external sensors	(-25 to 0) °C	0.33 K	In-house method RJAF-ISO-3, Revision 1.1 Date 08 January 2025
	(>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	(-25 to 0) °C	0.33 K	In-house method RJAF-ISO-3, Revision 1.1 Date 08 January 2025 according to EURAMET Calibration Guide No. 8 Version 3.1 (02/2020)
	(>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	
Pressure (Permanent and On-Site)			
Pressure Instrument (Pneumatic)	(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	
Length (Permanent)			
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



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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- Eng. Tareq AL-Qaisi: PMEL Manager
- 2- Eng. Mohammad AL-Momani: Quality Manager
- 3- Eng. Hamza Debian: Technical Manager and Lab Officer
- 4- Eng. Abdalrahman Sroor: Lab Officer
- 5- Mohammad Al-Khamaiseh : Lab Officer
- 6- Eng. Abdalrahman Sroor: Lab Officer
- 7- Laith Majdi Freij: Lab Technician
- 8- Mohammad Bassam: Lab Technician
- 9- Muneeb Almasri: Lab Technician
- 10- Hassan Ibrahim Rahal: Lab Technician
- 11- Moath Waleed Fayz: Lab Technician
- 12- Mohammad Muneer: Lab Technician