



Annex (1)

To the Accreditation Certificate No. **JAS Cal. - 010** Dated **26-12-2022**

For The laboratory at Validation for Information Technology (Technival) / Amman

Scope of Accreditation

Calibration of Thermocouples, Temperature and Humidity Sensors, Pressure Gauges  
(Permanent and onsite)  
and Calibration of Torque Wrenches (Permanent)

Measurand	Measuring Range	Calibration and measurement Capability (CMC) <sup>a</sup>	Calibration Methods/ Standards/ Remarks
<b>Thermocouples (Permanent and onsite)</b>			
Thermocouples	$\geq -40$ to $0$ °C	0.2 °C	SOP100 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to EURAMET cg-8 Version 3.1 (02/2020) - Calibration of Thermocouples
	$> 0$ to $100$ °C	0.3 °C	
	$> 100$ to $400$ °C	1.9 °C	
	$> 400$ to $650$ °C	5.9 °C	
<b>Temperature and Humidity Sensors (Permanent and onsite)</b>			
Temperature and Humidity Sensors	$\geq 0$ to $60$ °C	0.96 °C	SOP101 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to EURAMET cg-8 Version 3.1 (02/2020) - Calibration of Temperature Data Loggers
	$\geq 10$ % to $50$ %	3 % RH	
	$> 50$ % to $95$ %	4.6 % RH	



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<b>Torque Wrench (Permanent)</b>			
Torque Wrench CW/CCW	10 N.m to 30 N.m	1 N.m	SOP105 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to ISO 6789- 2:2017 Calibration of Torque Wrench
	30 N.m to 200 N.m	3 N.m	
	200 N.m to 500 N.m	6 N.m	
	500 N.m to 980 N.m	9 N.m	
<b>Pressure Gauges (Permanent and onsite)</b>			
Pressure Gauge- Pneumatic and Vacuum	-0.8 bar to 20 bar	0.06 Bar	SOP103 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to DKD-R 6-1 Version 03/2014 Revision: 3 - Calibration of Pressure Indicators, Sequence "C" Only.  SOP104 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to ISO 3567 First Edition 15/12/2011 – Calibration of Vacuum Indicators



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Pressure Gauge-Hydraulic	20 bar to 100 bar	0.56 Bar	SOP103 Tech QP-004 [Issue No. (1); Issue Date: 15/03/2021, Revision No. (5); Revision Date: 18/10/2022] according to DKD-R 6-1 Version 03/2014 Revision: 3 - Calibration of Pressure Indicators, Sequence "C" Only.

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: General Manager
2. Afnan Dawoud: Quality Manager
3. Issa Jamal: Executive Manager
4. Mohammad Rawashdeh: Calibration and Qualification Supervisor
5. Aws AL-Batainah: Calibration and Qualification Senior
6. Hasan Rawashdeh: Calibration and Qualification Employee