



Annex (1)

Updated on: 12/09/2022

To the Accreditation Certificate No. **JAS Cal. – 006** Dated **26-03-2019**

For the Laboratory of **MIKIAL** for Calibration and Industrial Consultation (MCIC)

Scope of Accreditation

Temperature and Pressure Calibration

Permanent and onsite

Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Temperature			
Resistance Thermometers (PRTs) with Indicators	≥ -20 °C to 0 °C	0.20 K	FLUKE 9142 Dry Block, FLUKE 1502A & FLUKE 5615 Platinum Resistance Thermometer, Calibration is done according to SOP No. CA08001, date (01/09/2021), rev (5).
	> 0 °C to 25 °C	0.19 K	
	> 25 °C to 50 °C	0.17 K	
	> 50 °C to 75 °C	0.16 K	
	> 75 °C to 140 °C	0.16 K	
	> 140 °C to 150 °C	0.19 K	
Pressure			
Pneumatic Pressure Gauge	-0.6 to <10 bar	0.058 bar	FLUKE 719PRO-300G & FLUKE 750PD2, Calibration is done (sequence C) according to DKD-R-6-1:2014 It is explained in SOP No. CA08006, date (16/07/2020), rev (3).
	10 to 20 bar	0.12 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. Hussam S. Joudeh, Lab Manager
2. Hussam A. Shraim, Quality Supervisor
3. Ismail Alkhatib, Calibration Technician
4. Abdel Rahman Y. Al Jawabrah, Calibration Technician



Annex (2)

Issued on: 12-09-2022

To the Accreditation Certificate No. **JAS Cal. – 006** Dated **26/03/2019**

For the Laboratory of **MIKIAL** for Calibration and Industrial Consultation (**MCIC**)

Scope of Accreditation

Temperature and Relative Humidity

Permanent and onsite

Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Temperature			
Temperature (Thermocouple with readout)	≥ -20 °C to 150 °C	1.1 K	In-House Method / SOP No. CA08001, date (01/09/2021), rev (5).
Temperature (Air Type Sensors)	≥ 10 °C to 50 °C	0.54 K	Rotronic HP32 Temp & Humidity Meter, MICHELL S904 Humidity & Temperature Calibrator, Calibration is done according to SOP No. CA08008, date (01/09/2021), rev (3). Calibration is carried out at 50 % RH
Relative Humidity			
Humidity Meters/ Indicators	(≥ 10 to 50) % RH (> 50 to 70) % RH (> 70 to 90) % RH	1.8 % RH 2.5 % RH 3.4 % RH	Rotronic HP32 Temp & Humidity Meter, MICHELL S904 Humidity & Temperature Calibrator, Calibration is done according to SOP No. CA08008, date (01/09/2021), rev (3). Calibration is carried out at 23 °C

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. **Hussam S. Joudeh, Lab Manager**
2. **Hussam A. Shraim, Quality Supervisor**
3. **Ismail Alkhatib, Calibration Technician**
4. **Abdel Rahman Y. Al Jawabrah, Calibration Technician**