

## 10.15 Scope of Accreditation

Issue No: 2/ Issue Date: 04.02.2019  
Accreditation Manager: Hamza Khan

### Calibration Laboratory Accreditation No. ACL 0009

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognized International Standard ISO/IEC 17025:2005, "General requirements for the competence of testing and calibration laboratories"

Express Calibration Laboratory	
Address. Office No. 603, ADCP Building No. 21, Tower D Electra Road P.O. Box 21965 Abu Dhabi United Arab Emirates	Contact: <a href="#">Mr Talent Mupandawana</a> . Tel: +971 (0)2 631 1941 Fax: - Email: <a href="mailto:technicalsupport@expresslaboratory.ae">technicalsupport@expresslaboratory.ae</a> Web Address: <a href="http://www.expresslaboratory.ae">www.expresslaboratory.ae</a>

#### ***Locations where calibration activities covered by the above Accreditation Standard are undertaken***

1- Office No. 603, ADCP Building No. 21, Tower D, Electra Road, Abu Dhabi, United Arab Emirates and client's site

#### ***For the following scope:***

### 1. Calibration

- 1.13 Volumetric equipment
- 1.41 Frequency and time measuring instruments and standards
- 1.80 Temperature measuring equipment
- 1.83 Hygrometry
- 1.84 Testing of controlled enclosures

Scope details are as follows:

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ACCREDITED  
**CALIBRATION**  
ISO/IEC 17025:2005  
No. ACL 0009

### Calibration field 1: (Volumetric equipment)

Measurand	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *
Volume	0.1 µL to ≤20 µL	0.05 µL	QSP CAL-002 / Instrument Calibrator Kit	Pipette	P and S
	>20 µL to ≤ 50 µL	0.45 µL			
	>50 µL to ≤ 100 µL	0.63 µL			
	>100 µL to ≤ 200 µL	1.1 µL			
	>200 µL to ≤ 500 µL	1.7 µL			
	>500 µL to ≤ 1 mL	3.2 µL			
	> 1 mL to ≤ 2 mL	7.5 µL			
	> 2 mL to ≤ 5 mL	12 µL			

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### Calibration field 2: (Speed measuring devices)

Measurand	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *
Rotational Speed	30 rpm to ≤100 rpm	0.2 rpm	QSP CAL-003 / Reference tachometer	Speed measuring devices	P and S
	>100 rpm to ≤600 rpm	2 rpm			
	>600 rpm to ≤6000 rpm	3 rpm			
	>6000 rpm to ≤100000 rpm	10 rpm			
	>100000 rpm to ≤200000 rpm	15 rpm			

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### Calibration field 3: (Temperature and hygrometry)

Measurand	Measuring Range	CMC Expressed as an Expanded Uncertainty (k = 2) **	Method (standard/guide + internal procedure)	Type of Instrument or Material	Permanent lab (P) / Client-site (S) *
Humidity	At 10 °C to 70 °C 11 %RH to 50 %RH	2 %RH	QSP CAL-001 / Reference Thermo-hygrometer	Hygrometers	P and S
	>50 %RH to 90 %RH	3.4 %RH		Thermohygrometers	
Temperature	15 °C to 55 °C At 50 %RH	0.3 °C	QSP CAL-001 / Reference Thermo-hygrometer	Thermohygrometers	P and S
	-40 °C to 130 °C	0.3 °C	QSP CAL-004 / Reference Thermometer and dry block	Thermometer	P and S
	-40 °C to 130 °C	0.3 °C		Thermocouples	P and S
Temperature Survey	-40 °C to 140 °C (Using body submersible)	0.5 °C	QSP CAL-007 / Reference thermometers and multichannel data loggers	Ovens, Cold Rooms, Fridges, Freezers, Incubators, Heating Blocks, Water Baths, Sterilisers, Autoclaves, and such objects	P and S
	-70 °C to 250 °C (Using probe only)	0.5 °C			

\*: Put only 'P', 'S' or 'P and S'

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\*\*Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMC's represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually 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.

**Note:** the text in blue indicates the new scope OR update in the Edition of a method in this issue of the scope of accreditation.

**END**

This conformity assessment body (CAB) is recorded as issuing GAC accredited certificates to organizations in the countries listed below. This list is current at the time of issue of this schedule.

United Arab Emirates	Bahrain	Saudi Arabia	Oman	Qatar	Kuwait	Yemen