

## Accreditation Scope

**LB-CAL-071**

**Gray Mackenzie Engineering Services**

**Shed#118 Dry Docks, Al Jadaf**

**Dubai-United Arab Emirates**

**Date: 10-08-2022**

**Valid to: 09-08-2025**

Accreditation History			
Scope	Issue No.	Details	Date
Temperature	3	Renewal accreditation	10-08-2022
Pressure			
Temperature	2	Renewal accreditation and first issuance under the name of EIAC (which was formerly known as DAC)	02-02-2020
Pressure			
Temperature	1	Granted accreditation from Dubai Accreditation Center 'DAC'	10-08-2016
Pressure			

## Accreditation Scope

### Temperature Calibration

#### LB-CAL-041

**Gray Mackenzie Engineering Services**

**Shed#118 Dry Docks, Al Jadaf**

**Dubai-United Arab Emirates**

Issue no.: 03

Date: 10-08-2022

Valid to: 09-08-2025

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement	Location
			Capability (CMC)*	
Calibration of thermocouples/RTD with digital temperature indicator	Comparison method No. GMES/LAB/LCP-04	35 °C up to 300 °C	0.6 °C	Laboratory
Calibration of thermocouples/RTD with digital temperature indicator	Comparison method No. GMES/LAB/LCP-04	>300 °C up to 660 °C	1.0 °C	

\* Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

## Accreditation Scope

### Pressure Calibration

#### LB-CAL-041

## Gray Mackenzie Engineering Services

### Shed#118 Dry Docks, Al Jadaf

### Dubai-United Arab Emirates

Issue no.: 03

Date: 10-08-2022

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Pneumatic Pressure (gauge Pressure)	LCP-01 based on BS EN 837-1	$0.05 \text{ MPa} \leq p \leq 2.8$ MPa	1 kPa	Laboratory
Hydraulic Pressure (Gauge Pressure)		$0.1 \text{ MPa} \leq p \leq 6 \text{ MPa}$	2 kPa	
		$6 \text{ MPa} < p \leq 120 \text{ MPa}$	$4 \cdot 10^{-4} \cdot p + 2.1 \text{ kPa}$	

\* Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.