





## **ACCREDITATION CERTIFICATE**

## 040-LB-CAL

## **Emirates International Accreditation Centre**

has accredited

#### **PHI SIGMA CALIBRATION**

407, Habib AG Zurich Bank Building, Bank Street
Bur Dubai, Dubai-United Arab Emirates
In accordance with the requirements of

ISO/IEC 17025:2005

## General requirements for the competence of testing and calibration laboratories

to undertake the calibration in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 01/10/2019 to 03/08/2022

Initial Accreditation Date: 04/08/2016







#### 040-LB-CAL

#### **PHI Sigma Calibration**

## 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Date: 01-10-2019

Accreditation History				
Scope	Issue No.	Details	Date	
Temperature	3	Renewal accreditation from EIAC (which was formerly	01/10/2019	
Pressure	2	known as DAC)		
Mass				
Balance				
Volume				





#### **Temperature Calibration**

#### 040-LB-CAL

#### **PHI Sigma Calibration**

## 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 03

Date: 01-10-2019

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Temperature transmitters, Resistance Thermometers,	PSC-SOP-TH1, PSC-SOP- TH2	-35 °C to 0 °C	0.5 ℃	Laboratory /
Thermocouple with controler/indicator,		>0 °C to 90 °C	0.4 ℃	premises
Datalogger recorder, Temperature guage, Digital thermometers,		>90 °C to 200 °C	0.6 ℃	
Temperature indicator of closed volume devices		>200 °C to 400 °C	1.0 ℃	
		>400 °C to 650 °C	1.5 ℃	
Liquid-In-Glass thermometers	PSC-SOP-TH3	-35 °C to 0 °C	0.8 °C	Laboratory
		>0 °C to 90 °C	0.7 °C	
		>90 °C to 200 °C	1.0 °C	
IR-thermometers	PSC-SOP-TH7	50 °C to 250°C	2.0 °C to 3.0 °C	Laboratory
		>250 °C to 500 °C	3.0 °C to 6.1 °C	
Analog/digital humidity sensor, Thermohygrometers,	PSC-SOP-TH6	20 %RH to 50 %RH	2.0 %RH	Laboratory
		>50 %RH to 90 %RH	2.5 %RH	

<sup>\*</sup> 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.





#### **Temperature Calibration**

040-LB-CAL

#### **PHI Sigma Calibration**

## 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 03

Date: 01-10-2019

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Dry block calibrator	PSC-SOP-TH4	-35 °C to 0 °C	0.8 ℃	Laboratory
		>0 °C to 90 °C	0.5 ℃	
		>90 °C to 200 °C	0.7 ℃	
		>200 °C to 400 °C	1.0 ℃	
		>400 °C to 650 °C	1.5 °C	2
Temperature Data loggers	PSC-SOP-TH8	-25 °C to 70 °C	0.4 °C	Laboratory

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Valid to: 03-08-2022

## Accreditation Scope Pressure Calibration

040-LB-CAL

## **PHI Sigma Calibration**

#### 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 02

Date: 01-10-2019

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Hydraulic gauge pressure,	Comparison Method acc. to	4 MPa < <i>p</i> ≤ 70 MPa	24 kPa	Laboratory and
indicating and electrical	DKD R6-1-2014			Customer
output devices	PSC-SOP-PR-01 and PSC-	0 MPa≤ <i>p</i> ≤ 4 MPa	2 kPa	premises
	SOP-PR-02			
Gas differential pressure,	Comparison Method acc. to	- 4.9 kPa ≤ <i>p</i> < 4.9 kPa	17 Pa	
indicating and electrical	DKD R6-1-2014			
output devices	PSC-SOP-PR-01 and PSC-			
	SOP-PR-02			-
Vacuum, indicating and	Comparison Method acc. to	- 94 kPa ≤ <i>p</i> < 0	1.2 kPa	
electrical output devices	DKD R6-1-2014			
	PSC-SOP-PR-01 and PSC-			
	SOP-PR-02		4	

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#### **Mass Calibration**

040-LB-CAL

## **PHI Sigma Calibration**

## 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 02

Date: 01-10-2019

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
	Comparison Method according to OIML R 111- 2004	500 g - 2 kg	8.2 mg	Laboratory
	Using E2 class standard weights 1mg -10 kg	5 kg – 10 kg	82 mg	

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## Accreditation Scope Balance Calibration 040-LB-CAL

#### **PHI Sigma Calibration**

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#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 02

Date: 01-10-2019

Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Electronic Balance	According to OIML R-76- 2006 and cg 18-2015	0 to 200 g	0.3 mg	Customer
Us 1 / Ac 20 Us	Using E2 class standard 1 mg - 10 kg	> 200 g up to 2 kg	8.3 mg	Premises
		> 2 kg up to 20 kg	90 mg	
	According to OIML R-76- 2006 and cg 18-2015	> 20 kg to 60 kg	2.8 g	Customer
	Using M1 class standard	> 60 kg to 150 kg	5.8 g	Premises
	5 kg – 300 kg	> 150 kg to 300 kg	11.1 g	

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Valid to: 03-08-2022

# Accreditation Scope Volume Calibration 040-LB-CAL

#### **PHI Sigma Calibration**

#### 407, Habib AG Zurich Bank Building, Bank Street

#### **Bur Dubai, Dubai-United Arab Emirates**

Issue no.: 02

Date: 01-10-2019

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Calibration Field/ Measuring Quality	Calibration Method	Range and Specification	Calibration Measurement Capability (CMC)*	Location
Micropipette	Gravimetric Method According to ISO	10 µl to 100 µl	0.95 μΙ	Laboratory
	4787/Euramet Cg-19	> 100 µl to 1000 µl	1.9 μΙ	
		> 1000 µl to 10000 µl	20 μΙ	
Volumetric glass ware, Measuring cylinder	Gravimetric Method According to ISO 4787	0 to 10 ml	0.08 ml	Laboratory
Measuring Flask Burettes	Cg-19	> 10 ml to 100 ml	0.48 ml	
Pipettes Beakers		> 100 ml to 2000 ml	3.2 ml	

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