

10.15 Scope of Accreditation

Issue No: 2/ Issue Date: 16-08-2022
File Manager: Hamza Khan



ACCREDITED
CALIBRATION
ISO/IEC 17025:2017
No. ACL 0020

Calibration Laboratory Accreditation No. ACL 0020

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognized International Standard ISO/IEC 17025:2017, "General requirements for the competence of testing and calibration laboratories"

WIKA SAUDI ARABIA SERVICES LLC - Calibration- Laboratory	
Address Al Esnad Street Mjlis Attaaon Plan SH. KH 564, Al Khobar, Eastern Province, Kingdom of Saudi Arabia	Contact: MOHAMMAD KHAIZ Tel: +966 13 808 2229 Fax: +966 13 808 2292 Email: info@wika.sa Web Address: www.wika.sa

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

Address: Al Esnad Street Mjlis Attaaon Plan SH. KH 564, Al Khobar, Eastern Province, Kingdom of Saudi Arabia

10.15 Scope of Accreditation

Issue No: 2/ Issue Date: 16-08-2022
File Manager: Hamza Khan

GAC



ACCREDITED

CALIBRATION

ISO/IEC 17025:2017

No. ACL 0020

For the following scope:

1. Calibration

1.20 Pressure and Vacuum Measuring Devices

1.80 Calibration of temperature measuring equipment

Scope details are as follows:

10.15 Scope of Accreditation

Issue No: 2/ Issue Date: 16-08-2022
File Manager: Hamza Khan

Calibration field 1: Pressure

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) *
Hydraulic Relative Pressure	(6 to 60) bar	$1.4 \cdot 10^{-4} \times p$	DKD R-6-1 (2014) + Internal procedure WSAL.WI.001 #with Hydraulic Deadweight tester#	Electromechanical pressure gauges, transmitters, switches	P
	(> 60 to 1000) bar	$3.4 \cdot 10^{-4} \times p$			
	(> 1000 to 2600) bar	$2.2 \cdot 10^{-4} \times p$			
Pneumatic Relative Pressure	(0.02 to 100) bar	$1.2 \cdot 10^{-4} \times p$	DKD R-6-1 (2014) + Internal procedure WSAL.WI.002 #with Pneumatic Dead weight tester#	Electromechanical pressure gauges, transmitters, switches	P
	(-1 to -0.03) bar	$1.1 \cdot 10^{-4} \times p$			
Absolute Pressure	(0 to 2.2) bar	$1.1 \cdot 10^{-4} \text{ bar}$	DKD R-6-1 (2014) + Internal procedure WSAL.WI.003 #with Absolute Pressure Controller#		
Hydraulic Relative Pressure	(0 to 100) bar	15 mbar	DKD R-6-1 (2014) + Internal procedure WSAL.WI.004 & WSAL.WI.006	Electromechanical pressure gauges, transmitters, switches	S
	(> 100 to 400) bar	54 mbar			
	(> 400 to 1000) bar	0.23 bar			
Pneumatic Relative Pressure	(-0.9 to 0) bar	$1.7 \cdot 10^{-4} \text{ bar}$	DKD R-6-1 (2014) + Internal procedure WSAL.WI.004 & WSAL.WI.006	Electromechanical pressure gauges, transmitters, switches	S
	(0 to 1.5) bar	0.50 mbar			
	(> 1.5 to 9) bar	2.0 mbar			
	(> 9 to 25) bar	8.0 mbar			
Pneumatic Differential Pressure	(-120 to 120) mbar Line pressure up to 1 bar	0.035 mbar	DKD R-6-1 (2014) + Internal procedure WSAL.WI.003 #with Differential Pressure Controller#	Electromechanical pressure gauges, transmitters, switches	P and S
	(-300 to 300) mbar Line pressure up to 10 bar	0.077 mbar			

Issue No: 2/ Issue Date: 16-08-2022
File Manager: Hamza Khan

Calibration field 2: Temperature.

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) *
Temperature	(-35 to 165) °C	0.16 °C	Internal procedure WSAL.WI.005 #Using Dry well calibrator#	Temperature Sensors RTD with /without Indicator	P
	(100 to 500) °C	0.2 °C			
Temperature	(-35 to 165) °C	0.3 °C	Internal procedure WSAL.WI.005 #Using Dry well calibrator#	Temperature Sensors thermocouple with /without Indicator	P
	(100 to 600) °C	0.4 °C			
	(> 600 to 1100) °C	4.2 °C			
Temperature	(-35 to 165) °C	0.4 °C	Internal procedure WSAL.WI.005 #Using Dry well calibrator#	Dial temperature gauges	P
	(> 165 to 500) °C	0.93 °C			

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

**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.

Issue No: 2/ Issue Date: 16-08-2022

File Manager: Hamza Khan

Log of Suspended Scopes:

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) *	Date Suspended	Date Reinstated

Log of Withdrawn Scopes:

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) *	Date Withdrawn

END

Status of this accreditation can be checked in the GAC's website to confirm the validity of this accreditation - <https://www.gac.org.sa/en/>