Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-19566-01-00 according to DIN EN ISO/IEC 17025:2005

Valid from: 18.02.2019

Date of issue: 18.02.2019

Holder of certificate:

CETA Testsysteme GmbH
Marie-Curie-Straße 35-37, 40721 Hilden

Head:	Dr. rer. nat. Dipl.-Phys. Joachim Lapsien
Deputy head:	Dipl.-Phys. Klaus Burger

Accredited as calibration laboratory since: 27.07.2004

Calibration in the fields:

Mechanical quantities

- **Pressure** [a)]

[a)] also on-site calibration

The calibration laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use calibration standards or equivalent calibration procedures listed here with different issue dates.
The calibration laboratory maintains a current list of all calibration standards / equivalent calibration procedures within the flexible scope of accreditation.

Abbreviations used: see last page

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
https://www.dakks.de/en/content/accredited-bodies-dakks

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measured quantity / Calibration item	Range			Measurement conditions / procedure	expanded uncertainty of measurement [1)]	Remarks
Pressure Negative and positive gauge pressure p_e	-1,0 bar	to	-0,07 bar	DKD-R 6-1: 2014 DIN EN 837: 1997	$40 \cdot 10^{-2}$ mbar	Pressure medium: Gas
	> -0,07 bar	to	-0,01 bar		$35 \cdot 10^{-3}$ mbar	
	> -0,01 bar	to	0,03 bar		$3 \cdot 10^{-4} \cdot p_e$, but not lower than 3 µbar	
	> 0,03 bar	to	0,07 bar		$35 \cdot 10^{-3}$ mbar	
	> 0,07 bar	to	1,0 bar		$40 \cdot 10^{-2}$ mbar	
	> 1,0 bar	to	17 bar		8 mbar	
	> 17 bar	to	30 bar		20 mbar	
	> 30 bar	to	60 bar		30 mbar	

On-site calibration

Calibration and Measurement Capabilities (CMC)

Measured quantity / Calibration item	Range			Measurement conditions / procedure	expanded uncertainty of measurement [1)]	Remarks
Pressure Negative and positive gauge pressure p_e	-1,0 bar	to	-0,07 bar	DKD-R 6-1: 2014 DIN EN 837: 1997	$40 \cdot 10^{-2}$ mbar	Pressure medium: Gas
	> -0,07 bar	to	0,07 bar		$35 \cdot 10^{-3}$ mbar	
	> 0,07 bar	to	1,0 bar		$40 \cdot 10^{-2}$ mbar	
	> 1,0 bar	to	17 bar		8 mbar	
	> 17 bar	to	30 bar		20 mbar	
	> 30 bar	to	60 bar		30 mbar	

Abbreviations used:

CMC	Calibration and measurement capabilities
DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technische Bundesanstalt

[1)] The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of approximately 95 % and have a coverage factor of k = 2 unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

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