

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-K-15141-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.10.2022

Date of issue: 10.10.2022

This annex is a part of the accreditation certificate D-K-15141-01-00.

Holder of partial accreditation certificate:

burster präzisionsmeßtechnik gmbh & co kg
Talstraße 1-5, 76593 Gernsbach

The calibration laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and confirm generally with the principles of DIN EN ISO 9001.

Mechanical quantities

- Force
- Pressure
- Torque

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.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Annex to the Partial Accreditation Certificate D-K-15141-01-02

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Force	10 N to 20 N 30 N to 100 N	DIN EN ISO 376:2011 DKD-R 3-3:2018	$2 \cdot 10^{-4}$ $1 \cdot 10^{-4}$	100-N-Force-Reference Calibration Machine (RCM), compressive force
	20 N to 40 N 60 N to 200 N		$2 \cdot 10^{-4}$ $1 \cdot 10^{-4}$	200-N-Force-RCM, compressive force
	50 N to 100 N 150 N to 500 N		$2 \cdot 10^{-4}$ $1 \cdot 10^{-4}$	500-N-Force-RCM, compressive force
	100 N to 200 N > 200 N to 2 kN		$1 \cdot 10^{-3}$ $5 \cdot 10^{-4}$	2-kN-Force-RCM, compressive force
	500 N to 2 kN > 2 kN to 10 kN		$1 \cdot 10^{-3}$ $5 \cdot 10^{-4}$	10-kN-Force-RCM, compressive force
	2 kN to 5 kN > 5 kN to 50 kN		$2 \cdot 10^{-3}$ $1 \cdot 10^{-3}$	50-kN-Force-RCM, compressive force
	Torque Torque transducer, Torque measuring chains		0.005 N·m to < 0.01 N·m	DIN 51309:2022 VDI/VDE 2646:2019
≥ 0.01 N·m to < 0.1 N·m		$4 \cdot 10^{-4}$		
≥ 0.1 N·m to < 1 N·m		$2 \cdot 10^{-4}$		
≥ 1 N·m to 240 N·m		$1 \cdot 10^{-4}$		
Pressure Absolute pressure p_{abs}	0.1 bar to 35 bar	DKD-R 6-1:2014	$1.6 \cdot 10^{-4} \cdot p_{abs}$, but not < 0.8 mbar	Pressure medium: Gas
	Gauge pressure p_e		0.0 bar to 34 bar	$1.6 \cdot 10^{-4} \cdot p_{abs}$, but not < 0.8 mbar
0.0 bar to 200 bar			$2.4 \cdot 10^{-4} \cdot p_{abs}$, but not < 15 mbar	Pressure medium: HFE 7200
	> 200 bar to 1400 bar	$2.4 \cdot 10^{-4} \cdot p_{abs}$, but not < 100 mbar	principle: $p_e = p_{abs} - p_{amb}$	

Abbreviations used:

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technischen Bundesanstalt
VDE	Verband der Elektrotechnik, Elektronik und Informationstechnik
VDI	Verein Deutscher Ingenieure

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