DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

The Deutsche Akkreditierungsstelle attests with this **Partial Accreditation Certificate** that the calibration laboratory

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

meets the minimum requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment listed in the annex to this certificate. This includes additional existing legal and normative requirements, including those in relevant sectoral schemes.

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.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This partial accreditation certificate only applies in connection with the notice of 10.10.2022 with accreditation number D-K-15141-01.
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the partial accreditation certificate: **D-K-15141-01-02**
It is a part of the accreditation certificate: D-K-15141-01-00.

Berlin, 10.10.2022 Dipl.-Ing. Gabriel Zrenner
Head of Department

Translation issued:
21.10.2022 Dipl.-Ing. Gabriel Zrenner
Head of Department

The certificate together with the annex 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 (www.dakks.de).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

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The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkkS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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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.

Abbreviations used: see last page

DAkkS Deutsche Akkreditierungsstelle

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	DIN EN ISO 376:2011 DKD-R 3-3:2018	$2 \cdot 10^{-4}$	100-N-Force-Reference Calibration Machine (RCM), compressive force
	30 N to 100 N		$1 \cdot 10^{-4}$	
	20 N to 40 N		$2 \cdot 10^{-4}$	200-N-Force-RCM, compressive force
	60 N to 200 N		$1 \cdot 10^{-4}$	
	50 N to 100 N		$2 \cdot 10^{-4}$	500-N-Force-RCM, compressive force
	150 N to 500 N		$1 \cdot 10^{-4}$	
	100 N to 200 N		$1 \cdot 10^{-3}$	2-kN-Force-RCM, compressive force
	> 200 N to 2 kN		$5 \cdot 10^{-4}$	
	500 N to 2 kN		$1 \cdot 10^{-3}$	10-kN-Force-RCM, compressive force
	> 2 kN to 10 kN		$5 \cdot 10^{-4}$	
	2 kN to 5 kN		$2 \cdot 10^{-3}$	50-kN-Force-RCM, compressive force
	> 5 kN to 50 kN		$1 \cdot 10^{-3}$	
Torque Torque transducer, Torque measuring chains	0.005 N·m to < 0.01 N·m	DIN 51309:2022 VDI/VDE 2646:2019	$2 \cdot 10^{-3}$	240 Nm-Torque-RCM counterclockwise torque, clockwise torque
	≥ 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	Pressure medium: Gas principle: $p_e = p_{abs} - p_{amb}$
	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

Valid from: 10.10.2022
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