

Accreditation



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

Lorenz Messtechnik GmbH
Obere Schlosstraße 131, 73553 Alfdorf

meets the 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, provided they are explicitly confirmed in the annex to this certificate.

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 accreditation certificate only applies in connection with the notices of 22.02.2023 with accreditation number D-K-17603-01.
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 accreditation certificate: **D-K-17603-01-00**

Berlin, 22.02.2023

Dipl.-Wirtsch.-Ing. (FH) Tim Harnisch
Head of Technical Unit

Translation issued:
22.02.2023



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Head of Technical Unit

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

Office Berlin
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10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
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38116 Braunschweig

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

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-17603-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 22.02.2023

Date of issue: 22.02.2023

Holder of accreditation certificate:

Lorenz Messtechnik GmbH
Obere Schlosstraße 131, 73553 Alfdorf

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

Calibration in the fields:

Mechanical quantities

- **Torque**

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

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

Annex to the Accreditation Certificate D-K-17603-01-00

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

| Measurement quantity / Calibration item | Range | Measurement conditions / procedure | Expanded uncertainty of measurement | Remarks |
|---|--------------------|------------------------------------|-------------------------------------|-----------------------|
| Torque Torque measuring devices and torque measuring chains | 0.2 N·m to < 1 N·m | DIN 51309:2022 | $4 \cdot 10^{-4}$ | Class \geq 0.05 |
| | 1 N·m to < 6 N·m | DKD-R 10-5:2020 | $2 \cdot 10^{-4}$ | Clockwise torque |
| | | EURAMET cg-14, Version 2.0 | | Anti-clockwise torque |
| | 6 N·m to 200 N·m | | $1 \cdot 10^{-4}$ | Alternating torque |

Abbreviations used:

| | |
|---------|--|
| CMC | Calibration and measurement capabilities |
| DIN | Deutsches Institut für Normung e.V. – German institute for standardization |
| DKD-R | Calibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technische Bundesanstalt |
| EN | Europäische Norm – European Standard |
| EURAMET | European Association of National Metrology Institutes |
| IEC | International Electrotechnical Commission |
| ISO | International Organization for Standardisation |

Valid from: 22.02.2023

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