

## Deutsche Akkreditierungsstelle GmbH

**Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV**

Signatory to the Multilateral Agreements of  
EA, ILAC and IAF for Mutual Recognition

# Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

**DSM Messtechnik GmbH**  
**Dieselstraße 16, 73431 Aalen, Germany**

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out calibrations in the following fields:

**Mechanical quantities**  
- Torque

**Electrical quantities**  
- DC and low frequency  
- DC voltage  
- DC current  
- DC voltage ratio

The accreditation certificate shall only apply in connection with the notice of accreditation of 2016-08-05 with the accreditation number D-K-15152-01 and is valid until 2021-08-04. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-K-15152-01-00**

Braunschweig,  
2016-08-05

Dr. Michael Wolf  
Head of Division

Translation issued:  
2016-11-01

  
Head of Division

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 publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). 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 Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: [www.european-accreditation.org](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-K-15152-01-00 according to ISO/IEC 17025:2005

Period of validity: 2016-08-05 to 2021-08-04

Date of issue: 2016-08-05

Holder of certificate:

**DSM Messtechnik GmbH**  
**Dieselstraße 16, 73431 Aalen, Germany**

Head: Dipl.-Ing. (FH) Arthur Schiele  
Deputy: Thomas Schips

Accredited since: 1997-06-26

Calibrations in the fields:

### **Mechanical quantities**

- Torque

### **Electrical quantities**

- DC and low frequency
  - DC voltage
  - DC current
  - DC voltage ratio

**Annex to the accreditation certificate D-K-15152-01-00**

**Permanent Laboratory**

| Measured quantity / Calibration item                 | Range                                     | Measurement conditions / procedure | Best measurement capability <sup>1)</sup>   | Remarks   |
|--|---|------------------------------------|---|---|
| Torque<br>Torque measuring systems<br>torque sensors | 0,5 N·m to 1000 N·m                       | DIN 51309: 2005                    | 0,1 %                                       | Calibration of Torque measuring chain<br>the class $\geq 0,5$ |
| DC and low frequency<br>DC voltage                   | 1 mV to 10 mV<br>> 0,01 V to 250 V        |                                    | $3,6 \cdot 10^{-3}$<br>$0,40 \cdot 10^{-3}$ |   |
| DC current   | 2 mA to 20 mA                             |                                    | $1,5 \cdot 10^{-3}$                         |   |
| DC voltage ratio                                     | 0,1 mV/V to 2 mV/V<br>> 2 mV/V to 10 mV/V | input voltage:<br>10 V to 15 V     | 0,5 $\mu$ V/V<br>1,4 $\mu$ V/V              |   |

**Abbreviations used:**

DIN                    German Institute for Standardization

<sup>1)</sup> The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 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.