

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

KEM Küppers Elektromechanik GmbH
Wetzeller Straße 22, 93444 Bad Kötzing

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out calibrations in the following fields:

Fluid Quantities

- Liquid flow rate
- Volume of flowing liquids
- Mass of flowing liquids

The accreditation certificate shall only apply in connection with the notice of accreditation of 01.08.2019 with the accreditation number D-K-15166-01-00. 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-15166-01-00**

Braunschweig,
01.08.2019

Dr. Heike Manke
Head of Division

Translation issued:
01.08.2019


Head of Division

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>

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

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-15166-01-00
according to DIN EN ISO/IEC 17025:2018

Valid from: 01.08.2019

Date of issue: 01.08.2019

Holder of certificate:

KEM Küppers Elektromechanik GmbH

with its calibration laboratory

Wetzeller Straße 22, 93444 Bad Kötzing

Calibration in the fields:

Fluid Quantities

- **Liquid flow rate**
- **Volume of flowing liquids**
- **Mass of flowing liquids**

Abbreviations used: see last page

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Mass of flowing liquids	0.9 kg to 8 kg	dynamic weighing method	0.05 %	Measured fluid: fluids with a density from $\rho = 650 \text{ kg/m}^3$ to $\rho = 1000 \text{ kg/m}^3$ and a viscosity from $\nu = 1 \text{ mm}^2/\text{s}$ to $\nu = 100 \text{ mm}^2/\text{s}$
	90 kg to 600 kg			
Liquid flow rate Mass flow rate dm/dt	0.015 kg/min to 1500 kg/min			
Volume of flowing liquids	1 L to 10 L	dynamic weighing method; conversion by using density	0.1 %	
	100 L to 800 L			
Liquid flow rate Volume flow rate dV/dt	0.016 L/min to 2000 L/min			

Abbreviations used:

CMC Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have 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.