DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

Techmetrics GmbH
Brückenstraße 13, 71364 Winnenden

operates a calibration laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annex listed below. This includes additional existing legal and normative requirements for the calibration laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annex listed below.

D-K-22606-01-01 Valid from: 18.08.2025

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and they conform to 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 notice of 18.08.2025 with accreditation number D-K-22606-01.
It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex.

Registration number of the accreditation certificate: **D-K-22606-01-00**

Berlin, 18.08.2025	Dipl.-Wirtsch.-Ing. (BA) Tim Harnisch Head of Technical Unit	Translation issued: 18.08.2025	Dipl.-Wirtsch.-Ing. (BA) Tim Harnisch Head of Technical Unit

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digital sealed and valid without signature. It reflects the status as indicated by the date of issue. The current status of any valid and surveyed 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
Spittelmarkt 10
10117 Berlin

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

This accreditation certificate is the property of the German Accreditation Body

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-22606-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **18.08.2025**

Date of issue: 18.08.2025

This annex is part of the Accreditation Certificate D-K-22606-01-00.

Holder of the Accreditation Certificate:

Techmetrics GmbH
Brückenstraße 13, 71364 Winnenden

with the location

Techmetrics GmbH
Brückenstraße 13, 71364 Winnenden

The calibration laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The calibration laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these 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 they conform to the principles of DIN EN ISO 9001.

This annex to the certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS) and is digitally sealed.
This annex to the certificate 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 valid and surveyed 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 annex to the accreditation certificate.

Calibration in the fields:

Thermodynamic quantities

Humidity quantities

- **Devices for absolute humidity**
- **Devices for relative humidity**

Temperature quantities

- **Direct reading thermometers**
- **Temperature transmitters, data loggers**
- **Resistance thermometers**

Within the measurands/calibration items marked with *), 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.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measured quantity / calibration item	Range	Measurement conditions / procedure	Expanded measurement uncertainty	Remarks
Absolute humidity Frost-/dew point temperature: Dew point mirrors Dew point transmitters Dew point hygrometers	–90 °C to < –80 °C	TM-KV01, V2.0 in humidity generator	0,4 K	Comparison with primary generator
	–80 °C to < –60 °C		[0.2 to 0.05] K	
	–60 °C to < –24 °C		50 mK	
	–24 °C to 85 °C		30 mK	
	> 85 °C to 95 °C		40 mK	
Relative humidity Dew point mirror hygrometers with gas temperature measurement	1 % to 99 %	TM-KV01, V2.0 in humidity generator with external temperature sensor in liquid bath frost / dew point temperature: –75 °C to 95 °C Reference temperature of the relative humidity: –40 °C to < 0 °C	0.03 % + 0.0060 · *rh*	Comparison with primary generator and reference thermometer *rh* = measured value Measurement uncertainty expressed as absolute value of the relative humidity
		0 °C to < 20 °C	0.03 % + 0.0027 · *rh*	
		20 °C to 130 °C	0.01 % + 0.0023 · *rh*	
Temperature Resistance thermometers; Direct reading thermometers and transmitters with resistance sensor *)	0.0 °C	DKD-R 5-1:2023 ice point	5 mK	Calibration at fixed point temperature
	–90 °C to 250 °C	DKD-R 5-1:2023 in liquid bath	20 mK	Comparison with reference thermometer

Abbreviations used:

CMC	Calibration and measurement capabilities
DKD-R	Calibration Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt (PTB)
TM-KV01	In house method of Techmetrics GmbH

Techmetrics GmbH
Registration number of the accreditation certificate: D-K-22606-01-00

List of currently applied calibration procedures within the flexible scope of the annex to Accreditation Certificate D-K-22606-01-01 dated August 18, 2025.

Measured quantity / calibration item	Range	Measurement conditions / procedure	Expanded measurement uncertainty	Remarks
Temperature Resistance thermometers; Direct reading thermometers and transmitters with sensor	0,0 °C	DKD-R 5-1:2023 ice point	5 mK	Calibration at fixed point temperature
	-90 °C bis 250 °C	DKD-R 5-1:2023 in liquid bath	20 mK	Comparison with reference thermometer