

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





The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

Xylem Analytics Germany GmbH Am Achalaich 11, 82362 Weilheim

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

Thermodynamic quantities

- **Temperature quantities**
- Resistance thermometers
- Thermocouples
- Direct reading thermometers
- Temperature transmitters, data loggers
- **Humidity quantities**
- Devices for relative humidity

Mechanical quantities

Pressure

The accreditation certificate shall only apply in connection with the notice of accreditation of 10.12.2021 with the accreditation number D-K-20615-01. 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-20615-01-00

Berlin, 10.12.2021 Dr Heike Manke Head of Division Translation issued: 10.12.2021

of Division Head

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 may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH https://www.dakks.de/en/content/accredited-bodies-dakks.

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 Office Frankfurt am Main Europa-Allee 52 60327 Frankfurt am Main Office Braunschweig Bundesallee 100 38116 Braunschweig

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-20615-01-00 according to DIN EN ISO/IEC 17025:2018

 Valid from:
 10.12.2021

 Date of issue
 10.12.2021

Holder of certificate:

Xylem Analytics Germany GmbH Am Achalaich 11, 82362 Weilheim

Calibration in the fields:

Thermodynamic quantities

- **Temperature quantities**
- Resistance thermometers
- Thermocouples
- Direct reading thermometers
- Temperature transmitters, data loggers
- **Humidity quantities**
- Devices for relative humidity

Mechanical quantities

- Pressure

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.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

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 may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH https://www.dakks.de/en/content/accredited-bodies-dakks.

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-20615-01-00

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range			Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Temperature Resistance thermometers; direct reading thermometers and data loggers with resistance sensor	0 °C			In bath with deionized iced water DKD-R 5-1:2018	15 mK	Deionized water (conductivity < 5 μS/cm)
	0,01 °C			Triple point of water DKD-R 5-1:2018	10 mK	Calibration at fixed point temperatures
	−90 °C	to	−35 °C	In stirred liquid bath DKD-R 5-1:2018	50 mK	Comparison with standard resistance thermometer
	>−35 °C	to	250 °C		30 mK	
Base metal thermocouples, direct reading thermometers and data loggers with thermocouple sensor	<i>–</i> 85 ℃	to	200 °C	In stirred liquid bath DKD-R 5-3:2018	0,3 K	Comparison with standard resistance thermometer
	> 200 °C	to	250 °C		0,5 К	
Relative humidity Hygrometers and transmitters	10 %	to	30 %	"Two-pressure" humidity generator, temperature range: 5 °C to 70 °C DKD-R 5-8:2019	0,3 %	Comparison with reference dew point mirror and reference thermometer Measurement uncertainty expressed in relative humidity
	> 30 %	to	70 %		0,6 %	
	> 70 %	to	95 %		0,9 %	
Pressure Absolute pressure <i>p</i> _{abs}	0 bar	to	5 bar	DKD-R 6-1:2014	0,62 mbar	Pressure medium: Gas
	> 5 bar	to	25 bar		2,0 mbar	

Abbreviations used:

CMCCalibration and measurement capabilitiesDKD-RCalibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-
Technischen Bundesanstalt

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.