

## 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

Xylem Analytics Germany GmbH Dr.-Karl-Slevogt-Straße 1, 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 28.05.2019 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,

15.02.2021

Dr Heike Manke

**Head of Division** 

Translation issued:

15.02.2021

Head of Division

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

# Annex to the Accreditation Certificate D-K-20615-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from:

15.02.2021

Date of issue

15.02.2021

#### Holder of certificate:

Xylem Analytics Germany GmbH Dr.-Karl-Slevogt-Straße 1, 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

Within the measurement quantities/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

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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#### Annex to the accreditation certificate D-K-20615-01-00

#### **Permanent Laboratory**

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item		Range		Measurement capab 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 *)	-85 °C	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 K	
Relative humidity Hygrometers and transmitters	10 %	to	30 %	"Two-pressure" humidity generator, temperature range: 5°C to 70°C QMV 7.2.3: 2018-05	0,3 %	Comparison with reference dew point mirror  Measurement uncertainty expressed in relative humidity
	> 30 %	to	70 %		0,6 %	
	> 70 %	to	95 %		0,9 %	
Absolut pressure $p_{abs}$ *)	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:**

CMC

Calibration and measurement capabilities

DKD-R

Calibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-

Technischen Bundesanstalt

QMV

In-house procedure of Xylem Analytics Germany GmbH

Date of issue: 15.02.2021

Valid from:

15.02.2021

<sup>1)</sup> 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.