

Deutsche Akkreditierungsstelle

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

Valid from: 18.12.2023

Date of issue: 18.12.2023

Holder of accreditation certificate:

**Xylem Analytics Germany GmbH
Am Achalaich 11, 82362 Weilheim**

with the location

**Xylem Analytics Germany GmbH
Am Achalaich 11, 82362 Weilheim**

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 general with the principles of DIN EN ISO 9001.

Calibration in the fields:

Mechanical quantities

- Pressure

Thermodynamic quantities

Humidity quantities

- Devices for relative humidity

Temperature quantities

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

This certificate annex 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 given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

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.

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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)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Temperature Resistance thermometers; direct reading thermometers and data loggers with resistance sensor	0,01 °C	DKD-R 5-1:2018 triple point of water	10 mK	Calibration at fixed point temperatures
	-90 °C to -35 °C	DKD-R 5-1:2018 in stirred liquid bath	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	DKD-R 5-3:2018 in stirred liquid bath	0,3 K	Comparison with standard resistance thermometer
	> 200 °C to 250 °C		0,5 K	
Relative humidity Hygrometers and transmitters	10 % to 30 %	DKD-R 5-8:2019 "Two-pressure" humidity generator, temperature range: 5 °C to 70 °C	0,3 %	Comparison with reference dew point mirror and reference thermometer Measurement uncertainty expressed as absolute value of the relative humidity
	> 30 % to 70 %		0,6 %	
	> 70 % to 95 %		0,9 %	
Pressure Absolute 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
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
DKD-R	Calibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technischen Bundesanstalt
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation

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