

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-22286-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 26.11.2025

Date of issue: 26.11.2025

This annex is part of the Accreditation Certificate D-K-22286-01-00.

Holder of the Accreditation Certificate:

Process Insights GmbH
Neuköllnische Allee 134, 12057 Berlin

with the location

Process Insights GmbH
Process Insights Calibration Center
Max-Eyth-Straße 30, 70736 Fellbach

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.

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**

*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).*

Abbreviations used: see last page

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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)				
Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Frost- / Dew-point temperature Dew point mirrors, Dew point transmitters, Dew point hygrometers	–90 °C to < –80 °C	KA 7.2-01, rev. 04 with 1-temperature- 1- / 2-pressure-humidity generator	[0.4 to 0.2] K	Primary method
	–80 °C to < –60 °C		[0.2 to 0.05] K	
	–60 °C to < –20 °C		50 mK	
	–20 °C to < 70 °C		30 mK	
	70 °C to < 90 °C		40 mK	
	90 °C to 95 °C		45 mK	
Dew point mirrors, Dew point transmitters, Dew point hygrometers	–90 °C to < –75 °C	KA 7.2-01, rev. 04 with humidity generator	[0.5 to 0.2] K	Comparison method with reference dew point mirror
	–75 °C to < –60 °C		[0.2 to 0.07] K	
	–60 °C to < –20 °C		0.07 K	
	–20 °C to < 60 °C		0.05 K	
	60 °C to 95 °C		0.07 K	
Relative Humidity Dew point mirrors, Dew point hygrometers	1 % to 98 %	KA 7.2-01, rev. 04 with 1-temperature- 1- / 2-pressure-humidity generator external temperature sensor in liquid bath or temperature chamber air temperature: –40 °C to 125 °C dew point temperature: < 95 °C	$0.1 \% + 0.003 \cdot rH$	Primary method rH = Measured value Measurement uncertainty expressed as absolute value of the relative humidity

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)				
Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hygrometers, Transducers *	1 % to 98 %	DKD-R 5-8:2019 with 1-temperature- 1- / 2-pressure-humidity generator in temperature chamber air temperature: –40 °C to 125 °C dew point temperature: < 95 °C	0.1 % + 0.004 · rH	Primary method rH = Measured value Measurement uncertainty expressed as absolute value of the relative humidity
Dew point mirrors, Dew point hygrometers	1 % to 98 %	KA 7.2-01, rev. 04 with humidity generator external temperature sensor in liquid bath or temperature chamber air temperature: –40 °C to 125 °C dew point temperature: < 95 °C	0.1 % + 0.004 · rH	Comparison method with reference thermometer and reference dew point mirror rH = Measured value Measurement uncertainty expressed as absolute value of the relative humidity
Hygrometers, Transducers *	1 % to 98 %	DKD-R 5-8:2019 with humidity generator in temperature chamber air temperature: –40 °C to 125 °C dew point temperature: < 95 °C	0.1 % + 0.006 · rH	Comparison method with reference thermometer and reference dew point mirror rH = Measured value Measurement uncertainty expressed as absolute value of the relative humidity

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)				
Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Temperature				
Resistance thermometers, resistance thermometers with direct reading, resistance thermometers with transducer *	0.0 °C	DKD-R 5-1:2023 ice point	5 mK	Calibration at fixed point temperature
	-40 °C to 125 °C	DKD-R 5-1:2023 in climatic chamber	40 mK	Comparison with reference thermometer
Resistance thermometers, resistance thermometers with direct reading *	-80 °C to < 0 °C	DKD-R 5-1:2023 in liquid bath	10 mK	Comparison with reference thermometer
	0 °C to 200 °C		16 mK	
Resistance thermometers with transducer *	-40 °C to 130 °C	DKD-R 5-1:2023 in liquid bath	20 mK	
Base metal thermocouples with direct reading, base metal thermocouples with transducer *	-80 °C to 200 °C	DKD-R 5-3:2018 in liquid bath	0.2 K	Comparison with reference thermometer
	-40 °C to 130 °C	DKD-R 5-1:2023 in climatic chamber	0.3 K	

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
KA	In-house procedure of Process Insights Calibration Center

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