

# Deutsche Akkreditierungsstelle

## Annex to the Accreditation Certificate D-K-19592-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 11.02.2025

**Date of issue:** 11.06.2025

Holder of accreditation certificate:

**Amphenol Advanced Sensors Germany GmbH**  
**Sinsheimer Straße 6, 75179 Pforzheim**

with the location

**Amphenol Advanced Sensors Germany GmbH**  
**Sinsheimer Straße 6, 75179 Pforzheim**

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 relative humidity**

#### **Temperature quantities**

- **Direct reading thermometers**
- **Temperature transmitters, data loggers**
- **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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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
<b>Humidity quantities</b> Data logger for relative humidity	15 % to 30 %	DKD-R 5-8:2019 in 2-pressure-generator temperature range: 10 °C to 60 °C	0.3 %	Comparison with dew point mirror Measurement uncertainty expressed in relative humidity
	> 30 % to 70 %		0.6 %	
	> 70 % to 95 %		0.8 %	
<b>Temperature quantities</b> Resistance thermometers; direct reading thermometers and temperature transmitters with resistance sensor	−196 °C	DKD-R 5-1:2018 in copper block in liquid nitrogen	10 mK	Comparison with standard resistance thermometer (SPRT) interpolation of the characteristic curve according to DKD-R 5-6:2018
	−65 °C to −55 °C	DKD-R 5-1:2018 in alcohol bath	8 mK	
	−0,1 °C to 0,1 °C	DKD-R 5-1:2018 in water bath	5 mK	
	95 °C to 105 °C	DKD-R 5-1:2018 in oil bath	7 mK	
	255 °C to 265 °C	DKD-R 5-1:2018 in salt bath	9 mK	
	415 °C to 425 °C		12 mK	
	−85 °C to < −65 °C	DKD-R 5-1:2018 in liquid baths	10 mK	
	> −55 °C to < −0,1 °C		10 mK	
	> 0,1 °C to < 95 °C		10 mK	
	> 105 °C to < 255 °C		10 mK	
	> 265 °C to < 415 °C		15 mK	
Temperature data loggers with resistance sensor	−85 °C to < −60 °C	DKD-R 5-1:2018 in liquid baths	50 mK	Comparison with reference resistance thermometer (IPRT) interpolation of the characteristic curve according to DKD-R 5-6:2018
	−60 °C to 260 °C		25 mK	
	> 260 °C to 400 °C		50 mK	

**Abbreviations used:**

CMC	Calibration and measurement capabilities
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

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