

## Flexible Scope of accreditation in addition to the scope of accreditation D-K-12107-01-02, dated 17.03.2025

Valid from:  
03.03.2026

Holder of the document:  
**IPH Institut Prüffeld für elektrische Hochleistungstechnik GmbH**  
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Calibration in the fields:

- **Thermodynamic quantities**
- **Temperature quantities**
  - Resistance thermometers
  - Thermocouples
  - Direct reading thermometers
  - Temperature transmitters, data loggers
  - Climatic chambers (temperature)\*

\***) also on-site calibrations**

Permanent Laboratory

Measurement quantity Calibration object	Measurement range	Measurement conditions Procedure	Expanded uncertainty	Remarks
Resistance temperature detectors (RTDs), direct-reading thermometers, and transmitters with RTD sensors	0 °C bis 90 °C	DKD-R 5-1:2023 In a water bath	0,3 K	Comparison with a resistance thermometer
	-20 °C bis < 50 °C	DKD-R-5-1: 2023 In the block calibrator	0,7 K	
	50 °C bis < 100 °C		0,15 K	
	100 °C bis 425 °C		0,3 K	
	425 °C bis 660 °C		0,5 K	
Base-metal thermocouples, direct-reading thermometers, and transmitters with base-metal thermocouple sensors	-20 °C bis 50 °C > 50 °C bis 100 °C > 100 °C bis 140 °C	DKD-R 5-3:2018 In the block calibrator	0,5 K 0,8 K 1,0 K	
Climate Chambers without recirculation (Temperature)	25 °C bis 100 °C > 100 °C bis 250 °C	DKD-R 5-7:2025 Methode A, B, D	1,0 K 2,0 K	
Measurement locations in Climate Chambers without recirculation	25 °C bis 100 °C > 100 °C bis 250 °C	DKD-R 5-7:2025 Methode C	1,0 K 2,0 K	

**On-Site Calibration**

Measurement quantity Calibration object	Measurement range	Measurement conditions Procedure	Expanded uncertainty	Remarks
Climate Chambers without recirculation (Temperature)	25 °C bis 100 °C > 100 °C bis 250 °C	DKD-R 5-7:2025 Methode A , B, D	1,0 K 2,0 K	
Measurement locations in Climate Chambers without recirculation	25 °C bis 100 °C > 100 °C bis 250 °C	DKD-R 5-7:2025 Methode C	1,0 K 2,0 K	

**Verwendete Abkürzungen:**

- AMD1          Amendment 1 (Neufassung)
- CMC          Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
- IEC          International Electrotechnical Commission