

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-23505-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 12.08.2026

Date of issue: 12.08.2026

This annex is part of the Accreditation Certificate D-K-23505-01-00.

Holder of the Accreditation Certificate:

Inotech Germany GmbH
Humboldtstraße 2a, 53639 Königswinter

with the location

Inotech Germany GmbH
Obere Hardt 15, 76467 Bietigheim

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.

*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).*

Annex to the Accreditation Certificate D-K-23505-01-02

Calibration in the fields:

Thermodynamic quantities

Temperature quantities

- Direct reading thermometers ^{a)}

Humidity quantities

- Devices for relative humidity ^{a)}

Mechanical quantities

- Pressure ^{a)}
- Gas flow rate ^{a)}

^{a)} also on-site calibration

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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 with direct reading	−40 °C to 80 °C	DKD-R 5-1:2023 in water baths	0,05 K	Comparison with reference thermometers
Relative humidity Electrical hygrometers with direct reading	10 % to 70 %	DKD-R 5-8:2019 with temperature-humidity generator measuring medium: air air temperature: 20 °C to 30 °C	2 %	Comparison with capacitive humidity standard
	> 70 % to 90 %		3 %	Uncertainty is an absolute value of the relative humidity
Pressure Absolut pressure p_{abs}	700 mbar to 1100 mbar	DKD-R 6-1:2014	0,15 mbar	Pressure medium: gas
Negative and positive gauge pressure p_e	−1 bar to < −0,1 bar		0,2 mbar	
	−0,1 bar to 0,1 bar		0,1 mbar	
	> 0,1 bar to 1 bar		0,2 mbar	
	> 1 bar to 100 bar		$1 \cdot 10^{-3} \cdot p_e$	
Flow of gases Volume flow rate dV/dt of flowing gases	2 L/h to < 16 L/h	critical nozzle, gas meter AA-108.005 V.2 AA-108.006 V.2 AA-108.007 V.2	0,28 %	Calibration medium atmospheric air Flow rates under operating conditions (above 2650 m³/h only systems with flow generation)
	16 L/h to < 200 L/h		0,20 %	
	0,2 m³/h to 6500 m³/h		0,18 %	

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On-site Calibration
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Temperature Resistance thermometers with direct reading	−40 °C to 80 °C	DKD-R 5-1:2023 in water baths	0,05 K	Comparison with reference thermometers
Relative humidity Electrical hygrometers with direct reading	10 % to 70 %	DKD-R 5-8:2019 with temperature-humidity generator measuring medium: air air temperature: 20 °C to 30 °C	2 %	Comparison with capacitive humidity standard
	> 70 % to 90 %		3 %	Uncertainty expressed as relative humidity
Pressure Absolut pressure p_{abs}	700 mbar to 1100 mbar	DKD-R 6-1:2014	0,15 mbar	Pressure medium: gas
Negative and positive gauge pressure p_e	−1 bar to < −0,1 bar		0,2 mbar	
	−0,1 bar to 0,1 bar		0,1 mbar	
	> 0,1 bar to 1 bar		0,2 mbar	
	> 1 bar to 100 bar		$1 \cdot 10^{-3} \cdot p_e$	
Flow of gases Volume flow rate dV/dt of flowing gases	2 L/h to < 16 L/h	critical nozzle, gas meter	0,28 %	Calibration medium atmospheric air (under laboratory conditions) Flow rates under operating conditions
	16 L/h to < 200 L/h	AA-108.005 V.2	0,20 %	
	0,2 m³/h to 6500 m³/h	AA-108.006 V.2 AA-108.007 V.2	0,18 %	

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
AA	In-house calibration procedure of inotech Meter Calibration Systems GmbH
CMC	Calibration and measurement capabilities
DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt (PTB)

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