

## Deutsche Akkreditierungsstelle

### Annex to the Accreditation Certificate D-K-15082-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 09.11.2022

**Date of issue:** 19.10.2022

Holder of accreditation certificate:

**Körper Technologies Instruments GmbH  
Schnackenburgallee 15, 22525 Hamburg**

The calibration laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and confirm generally with the principles of DIN EN ISO 9001.

Calibration in the fields:

**Fluid Quantities**

- **Gas flow rate**

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.

*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

**Page 1 of 3**

**This document is a translation. The definitive version is the original German annex to the accreditation certificate.**

**Annex to the Accreditation Certificate D-K-15082-01-00**

**Permanent Laboratory**

**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
<b>Fluid quantities</b>  Pressure drop transfer standards	17 mL/s to 18 mL/s	ISO 6565:2015 Annex A	0,1 %	Measuring medium: Ambient air as per ISO 3402  Pressure drop: 0,4 kPa to 13,0 kPa with measurement uncertainty of $U = 0,5 \%$  0,1 kPa to 0,39 kPa with measurement uncertainty of $U = 0,6 \%$
Air permeability standards	5 mL/min to 14,9 mL/min	ISO 2965:2019 Annex B	1,0 %	Measuring medium: Ambient air as per ISO 3402
	15,0 mL/min to 48000 mL/min		0,5 %	
Laminar flow elements (LFE) as per ISO 7210 paragraph 5.2.4	17 mL/min to 18 mL/min	ISO 6565:2015 Annex A	0,1 %	Measuring medium: air as per ISO 3402 no compensation to standard ambient conditions  Pressure drop of LFE: 80 Pa to 500 Pa with measurement uncertainty of $U = 1,0 \%$  For integrated pressure resistance of LFE refer to "Pressure drop transfer standards"
Pressure resistors (bubble-adapter) as per ISO 4387 paragraph 7.6.3.4  ISO 20778 paragraph 4.2 or 5.33 (2 kPa)  ISO 20779 paragraph 7.7.3.4  ISO 20768 paragraph 4.2 or 5.3.3 (3 kPa)	17 mL/s to 18 mL/s	ISO 6565:2015 Annex A	0,1 %	Measuring medium: air as per ISO 3402 no compensation to standard ambient conditions  Pressure drop of bubble-adapter: 0,1 kPa to 13,0 kPa with measurement uncertainty of $U = 1,0 \%$

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**Page 2 of 3**

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**Permanent Laboratory**

**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Pressure resistors (bubble-adapter) as per ISO/DIS 22486 paragraph 4.5 or paragraph 6.3.3	11600 mL/min to 13000 mL/min	ISO 6565:2015 Annex A (Exception flow velocity see range)	0,5 %	Measuring medium: Ambient air as per ISO 3402 no compensation to standard ambient conditions  Pressure drop of bubble-adapter: 0,1 kPa to 13,0 kPa with measurement uncertainty of $U= 1,0 \%$ ;
Ventilation standard as per ISO 9512 Anhang A	2 mL/s to 20 mL/s	ISO 9512:2019 Annex A	0,15 mL/s	Measuring medium: Ambient air as per ISO 3402 degree of ventilation 12 % to 100 % with measurement uncertainty $U= 1,0\%$ ventilation

**Abbreviations used:**

ISO International Organisation for Standardization

Valid from: 09.11.2022

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**Page 3 of 3**

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