

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-19495-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 18.08.2023

Date of issue: 18.08.2023

Holder of accreditation certificate:

Elster GmbH

Steinern Straße 19-21, 55252 Mainz-Kastel

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 confirm generally with the principles of DIN EN ISO 9001.

Calibration in the fields:

Mechanical Quantities

Fluid Quantities

– **Gas flow rate**

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

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Gas flow rate Volume flow rate of flowing gases	0.5 m ³ /h to 4 m ³ /h	VA Kalibrieren nach ISO 17025, Kap. 1.1: 2022-08	0.62 %	with atmospheric air, critical Venturi nozzle
	> 4 m ³ /h to 10 m ³ /h		0.33 %	
	> 10 m ³ /h to 250 m ³ /h		0.23 %	
	100 m ³ /h to 12 000 m ³ /h		0.23 %	with atmospheric air, Turbine gas meter
	65 m ³ /h to 100 m ³ /h		0.30 %	with atmospheric air,
	> 100 m ³ /h to 1 000 m ³ /h		0.23 %	constant volume rotary gas meter
Volume flow rate of flowing gases	5 m ³ /h to 10 m ³ /h	VA Kalibrieren nach ISO 17025, Kap. 1.1: 2022-08	0.47 %	with air under pressure to 25 bar, pulsation-free rotary piston gas meter
	> 10 m ³ /h to 100 m ³ /h		0.23%	
	40 m ³ /h to 1 800 m ³ /h		0.21 %	with air under pressure to 25 bar, turbine gas meter

Abbreviations used:

CMC	Calibration and measurement capabilities
DIN	Deutsches Institut für Normung e.V. (German institute for standardization)
VA	internal calibration procedure of Elster GmbH

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