

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-21152-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.03.2020

Date of issue: 29.04.2020

Holder of certificate:

AVL Emission Test Systems GmbH

with its calibration laboratories:

Graf-Landsberg-Straße 1c, 41460 Neuss
Max-Roth-Straße 1, 76571 Gaggenau

Calibration in the fields:

Mechanical quantities
Fluid Quantities

Abbreviations used: see last page

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Fluid quantities				
Volume flow rate of nitrogen (N ₂)	0,01 L/min to 10 L/min	Fluke molbox/molbloc Mass flow measuring system	0,38 %	Measurement range given under standard conditions: $T_{st} = 20\text{ °C}$, $p_{st,abs} = 1013,25\text{ mbar}$
Volume flow rate of propane (C ₃ H ₈)	0,02 L/min to 10 L/min		0,58 %	

Abbreviations used:

CMC Calibration and measurement capabilities

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.