

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-15140-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 05.10.2023

Date of issue: 05.10.2023

Holder of accreditation certificate:

Deutsche WindGuard Wind Tunnel Services GmbH
Oldenburger Str. 65, 26316 Varel

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

– **Velocity of gases**

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)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Velocity of gases Absolute value of flow vector Anemometer	0.5 m/s to 38 m/s	ISO 16622:2002, ISO 17713-1:2007, VA Kalibrierung von Strömungsgeschwindigkeitssensoren (D5831 Version 17)	0.4 %, jedoch nicht kleiner als 0.040 m/s	Wind tunnel: Type Göttingen Nozzle: 1.0 m x 1.0 m, up to 30 m/s additional nozzle: 1.2 m x 1.2 m Anemometer inclination: -31° to 31°
	4 m/s to 16 m/s	IEC 61400-50-1:2022 section 8, IEC 61400-12-1:2017 Annex F (withdrawn)		
Direction of flow vector Anemometer, wind direction sensor	0° to 360°	IEC 61400-50-1:2022 Annex A, IEC 61400-12-1:2017 Annex N (withdrawn), ISO 16622:2002, ISO 17713-1:2007, VA Kalibrierung von Strömungsrichtungssensoren (D5836 Version 7)	0.8°	Wind tunnel: Type Göttingen Nozzle: 1.0 m x 1.0 m

Abbreviations used:

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
VA	In-house procedure of Deutsche WindGuard Wind Tunnel Services GmbH

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