Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-19142-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **18.10.2023**

Date of issue: 18.10.2023

Holder of accreditation certificate:

ProfEC Ventus GmbH
Marie-Curie-Straße 1, 26129 Oldenburg

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.

Calibrations at the sites:

ProfEC Ventus GmbH, Marie-Curie-Straße 1, 26129 Oldenburg
Wind Tunnel Center (MEASNET), Carl-von-Ossietzky-Straße 9-11, 26129 Oldenburg

Calibrations in the fields:

Fluid quantities

- **Velocity of gases**

Mechanical quantities

- **Pressure**

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.

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.

ProfEC Ventus GmbH, Marie-Curie-Straße 1, 26129 Oldenburg
Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Pressure Absolute pressure p_{abs}	500 hPa to 1100 hPa	DKD-R 6-1:2014	0.18 hPa	Pressure medium: Gas

Wind Tunnel Center (MEASNET), Carl-von-Ossietzky-Straße 9-11, 26129 Oldenburg
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	4 m/s to 16 m/s	IEC 61400-50-1:2022, section 8 IEC 61400-12-1:2017 (withdrawn), Annex F MEASNET Anemometer Calibration Procedure – Version 3:2020	0.1 m/s	Wind tunnel (type Göttingen) Nozzle: 1.0 m x 0.8 m Anemometer inclination: 0°
Direction of flow vector Anemometer, wind direction sensor	0° to 360°	IEC 61400-50-1:2022, Annex A	0.9°	Wind tunnel (type Göttingen) Nozzle: 1.0 m x 0.8 m

Abbreviations used:

CMC	Calibration and measurement capabilities
IEC	International Electrotechnical Commission
MEASNET	Measuring Network of Wind Energy Institutes