# Deutsche Akkreditierungsstelle GmbH

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

**Valid from: 07.10.2020**

Date of issue: 07.10.2020

Holder of certificate:

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

Calibration in the fields:

**Fluid quantities**

- **Velocity of gases**

**Mechanical quantities**

- **Pressure**

**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.**

Abbreviations used: see last page

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

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.*
*https://www.dakks.de/en/content/accredited-bodies-dakks*

DAkkS Deutsche Akkreditierungsstelle

**Permanent Laboratory**

Calibration and Measurement Capabilities (CMC)

| Measurement quantity / Calibration item | Range | Measurement conditions / procedure | Expanded uncertainty of measurement [1)] | Remarks |
|---|---|---|---|---|
| **Velocity of gases**<br>Absolute value of flow vector<br>Anemometer | 4 m/s to 16 m/s | ISO IEC 61400-12-1:2017<br>MEASNET Anemometer Calibration Procedure – Version 2:2009 | 0.1 m/s | Wind tunnel (type Göttingen) |
| Direction of flow vector<br>Anemometer | 0° to 360° | ISO IEC 61400-12-1:2017 | 0.9° | |
| **Pressure**<br>Absolute pressure $p_{abs}$ | 500 hPa to 1100 hPa | DKD-R 6-1:2014 | 0.18 hPa | Pressure medium: gas |

**Abbreviations used:**

| | |
|---|---|
| CMC | Calibration and measurement capabilities |
| DKD-R | Guideline of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technische Bundesanstalt |
| IEC | International Electrotechnical Commission |
| ISO | International Organization for Standardization |
| MEASNET | Measuring Network of Wind Energy Institutes |

[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.