

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

anemos Gesellschaft für Umweltmeteorologie mbH Böhmsholzer Weg 3, 21391 Reppenstedt

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notices of 27.07.2023 with accreditation number D-PL-17580-01.

It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 4 pages.

Registration number of the accreditation certificate: D-PL-17580-01-00

Berlin, 27.07.2023

B. Sc. Maik Kadraba Head of Technical Unit Translation issued:

27.07.2023

B. Sc. Maik Kadraba Head of Technical Unit

The certificate together with the annex 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 (www.dakks.de).

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



Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-17580-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 27.07.2023

Date of issue: 27.07.2023

Holder of accreditation certificate:

anemos Gesellschaft für Umweltmeteorologie mbH Böhmsholzer Weg 3, 21391 Reppenstedt

The testing laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

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

Determination of the wind potential and energy yield of wind turbine sites; Performance, evaluation and analysis of wind measurements with anemometers, SoDAR and LiDAR remote sensing devices; Determination of the site quality at commissioning; Determination of the site quality following commissioning; Calculation of the turbulence intensity; Calculation of the shadow impact of wind turbines; Estimation of the sound immission of wind turbines; Compilation of wind atlases and determination of the wind and energy yield indices; Preparation of revenue reports; Calculation of market value atlases

Within the scope of accreditation marked with * the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing standards within the flexible scope of accreditation.

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



Annex to the Accreditation Certificate D-PL-17580-01-00

Determination of the wind potential and energy yield of wind turbine sites; Performance, evaluation and analysis of wind measurements with anemometers, SoDAR and LiDAR remote sensing devices; Determination of the site quality at commissioning

FGW TG6, Rev.11 *

Determination of wind potential and energy yields

2020-09

IEC 61400-1 *

Wind energy generation systems - Part 1: Design requirements

2019-02

IEC 61400-12-1 Ed. 2.0 *

Wind energy generation systems – Part 12-1: Power

2017-03

performance measurements of electricity producing wind

turbines (withdrawn standard)

IEC 61400-12-1 *

Power performance measurements of electricity producing

2022-09

wind turbines

IEC 61400-50 *

Wind measurement - Overview

2022-08

IEC 61400-50-1 *

Wind measurement – Application of meteorological mast,

2022-11

nacelle and spinner mounted instruments

IEC 61400-50-2 *

Wind measurement - Application of ground-mounted remote

2022-08

sensing technology

AA Wind- und

Preparation of wind- and energy yield assessments

Ertragsgutachten, Rev.00

2023-02

AA Windmessungen-Auswertung, Rev.00 Evaluation and analysis of wind measurements

2023-03

2 Determination of the site quality following commissioning

FGW, TG10, Rev. 02 *

Determination of the site quality following commissioning

2021-03

AA SGnl, Rev. 01

Determination of the site quality following commissioning

2022-10

Valid from:

27.07.2023

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27.07.2023

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3 Calculation of the turbulence intensity

AA Turbulenzintensität

Calculation of the natural ambient turbulence intensity

Rev.14 2023-02

4 Calculation of the shadow impact of wind turbines

LAI Hinweise zur Ermittlung und Beurteilung der optischen

2020-01 Immissionen von Windkraftanlagen Aktualisierung 2019 (WKA-

Schattenwurf-Hinweise)

AA Schatten Shadow flicker impact report

Rev.10 2023-02

5 Estimation of the sound immission of wind turbines

DIN ISO 9613-2 * Acoustics - Attenuation of sound during propagation outdoors -

1999-10 Part 2: General method of calculation

LAI Hinweise zum Schallimmissionsschutz bei Windenergieanlagen

2005-03 Länderausschuss für Immissionsschutz (LAI)

LAI Hinweise zum Schallimmissionsschutz bei Windkraftanlagen (WKA)

2016-06 Bund/Länder-Arbeitsgemeinschaft Immissionsschutz (LAI)

6 Compilation of wind atlases and determination of the wind and energy yield indices

AA anemos Windatlanten, Calculation of the anemos wind atlases

Rev.06 2023-02

2023-02

AA anemos Wind- und Calculation of the anemos wind- and energy yield indices

Ertragsindex Rev.08

Valid from: 27.07.2023 Date of issue: 27.07.2023

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7 Preparation of revenue reports

AA Erlösgutachten

Preparation of revenue reports

Rev.07 2023-05

8 Calculation of market value atlases

AA Marktwertatlas

Calculation of market value atlases

Rev.05 2023-02

Abbreviations used:

AA In-house method of anemos Gesellschaft für Umweltmeteorologie mbH

FGW Fördergesellschaft Windenergie und andere Dezentrale Energien e.V. (Federation of Wind

and other Decentralised Energies)

IEC International Electrotechnical Commission

LiDAR Light detection and ranging

SGnl Site quality following commissioning (Standortgüte nach Inbetriebnahme)

SoDAR Sonic detection and ranging

TG Technical Guideline WEA Wind turbines

Valid from: Date of issue: 27.07.2023 27.07.2023

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