



TYPE CERTIFICATE

Certificate No.:
TC-DNV-SE-0439-04906-2

Issued:
2023-01-17

Valid until:
2025-01-16

Issued for:

Damage Detection System SHM.Blade

Specified in Annex 1

Issued to:

Wölfel Wind Systems GmbH + Co. KG

Max-Planck-Str. 15

97204 Höchberg, Germany

According to:

DNV-SE-0439:2021-10 Certification of condition monitoring

Based on the document:

CR-DNV-SE-0439-04906-2

Certification Report Damage Detection System
SHM.Blade, dated 2023-01-17

Changes of the system design, the production or the manufacturer's quality system are to be approved by DNV.

Hellerup, 2023-01-17

For DNV Renewables Certification

Hamburg, 2023-01-17

For DNV Renewables Certification



Bente Vestergaard

Service Line Leader Type and Component
Certification

By DAkkS according DIN EN IEC/ISO 17065
accredited Certification Body for products. The
accreditation is valid for the fields of certification
listed in the certificate.

Peter Schmidt

Principal Project Manager

TYPE CERTIFICATE – ANNEX 1

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Page 2 of 2

General

System name SHM.Blade
 Manufacturer Wölfel Wind Systems GmbH + Co. KG

Hardware

Name Structural Noise Sensor SNS, Data Acquisition and Processing Unit DAPU
alternative:
 DAPU based on PLCnext Technology

Data sheet Produktspezifikation SHM.Blade, SHMB-02-PS-SHM, Rev. 4
alternative:
 Produktspezifikation SHM.Blade, SHMB-05-PS-SHM, Rev. 1
 Produktspezifikation SHM.Blade – Optische SNS, SHMB-04-PS-SHM, Rev. 1

No. of sensors per blade ≥ 1

Software

Name SHMB
 Version 05

Manuals

Inbetriebnahmeanleitung SHMB-04-Anleitung Inbetriebnahme, Rev. 2
 Montage- und Wartungsanleitung SHMB-04 Anleitung Montage Wartung, Rev. 4

Interfaces

Rotor Blade