



# TYPE CERTIFICATE

Certificate No.:  
TC-DNV-SE-0439-03760-4

Issued:  
2024-06-21

Valid until:  
2026-06-20

Issued for:

## Condition Monitoring System: TURBINE CONDITON MONITORING (TCM)

Specified in Annex 1

Issued to:

### KK Wind Solutions A/S

Soendergaard Allé 14  
6500 Vojens, Denmark

According to:

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

Based on the document:

CR-DNV-SE-0439-03760-4

Certification Report Condition Monitoring System,  
dated 2024-06-21

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

Hellerup, 2024-06-21

For DNV Renewables Certification

**Bente Vestergaard**  
Service Line Leader Type 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.

Hamburg, 2024-06-21

For DNV Renewables Certification

**Robert Kasch**  
Head of Section



# TYPE CERTIFICATE – ANNEX 1

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## General

System name TCM

## Hardware

Name M-system MKI

Number of analogue channels (vibration) 10

Number of digital channels 4

Name M-system MKII

Number of analogue channels (vibration) 4/8/16/24

Number of digital channels 4

Name M-system MKIII

Number of analogue channels (vibration) 4/8/16/24

Number of digital channels 4

Name M-system Mi

Number of analogue channels (vibration) 8/16

Number of digital channels 2

Vibration sensor type (general) DAM-Z08

Vibration sensor type (low frequency) DAM-XY01

## Software

Name TCM®Site Server

Version V12.7

Name TCM®Enterprise Server

Version V12.7

Name TCM®Ocular

Version V12.7

## Manual

Name TCM System Manual Volumes I, II, III, dated 2023-10-09