

# TYPE CERTIFICATE

Certificate No.:  
TC-DNVGL-SE-0439-04314-1

Issued:  
2020-10-20

Valid until:  
2022-10-19

Issued for:

## Ice Detection System BLADEcontrol Ice Detector (BID)

Issued to:

## Weidmüller Monitoring Systems GmbH

Else-Sander-Str. 8  
01099 Dresden  
Germany

According to:

## DNVGL-SE-0439:2016-06 Certification of condition monitoring

Based on the documents:

CR-CMS-DNVGL-SE-0439-04314-1

Certification Report Ice Detection System BLADEcontrol Ice Detector (BID), dated 2020-10-20

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

Hellerup, 2020-10-20

For DNV GL 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.

Hamburg, 2020-10-20

For DNV GL Renewables Certification

**Robert Kasch**  
Senior Project manager

# TYPE CERTIFICATE - ANNEX 1

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## General

System name	BLADEcontrol Ice Detector (BID) Vestas Ice Detector (VID) Retrofit Ice Detector (RID)
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## Hardware

Measuring unit	HMU V3.0 / HMU V4.0 / HMECU V3.0 / HMECU V4.0
Number of channels per blade	2
Number of digital channels	-
Evaluation communication unit	ECU_V6.3 / ECU_V6.4 / ECU_V7.0
Vibration sensor type	BCA403b / BCA423 / BCA503b / BCA523
<i>alternative</i> Strain sensor type	BCE101 / BCE201

## Software

Name	cmrbl
Version	2.5.sqlite / 2.6 / 4.0