



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00002DF
Revision No:
1

This is to certify:

that the **Bridge instrumentation**

with type designation(s)
WSS 700 and WSS 750 Ultrasonic Wind Sensor

issued to

DEIF A/S
Skive, Midtjylland, Denmark

is found to comply with

IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results

Application:

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Issued at **Høvik** on **2024-07-04**

for **DNV**

This Certificate is valid until **2029-07-03**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Kai Möller**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

WSS series of Wind Sensors include the following product types:

Type	Location
WSS 700 (Unheated)	Exposed
WSS 750 (Heated)	Exposed

Application/Limitation

Installation to be performed according to the manufacturers Product Manual.

Type Approval documentation

DNV No	Drawing No	Title
21	TRVTT-S-03554	Tightness Tests IP66 WMT700
20	TRVTT-S-03380	Mechanical Tests WMT70 Series Ultrasonic Wind sensor IEC 60945
19	TR220888	EMC Test Report WMT700
18	TR220879	Hardware test report IEC 60068-2-2 E3 Cold 2
17	TR220878	Hardware test report IEC 60068-2-2 E1 Dry Heat 2
16	TR220869	Hardware test report IEC 60945 7.4 - Power supply failure
15	TR220584	Hardware test report IEC 60068-2-6 Vibration
14	TR220581	Hardware test report E14-E22 EMC
13	TR220580	Hardware test report VDA 621-415 Climate Changing
12	TR220578	Hardware test report IEC 60068-2-31 Free Fall and Rough handling
11	TR220577	Hardware test report IEC 60068-2-14 Change of Temperature
10	TR220576	Hardware test report IEC 60068-2-30 Damp Heat Cyclic
9	TR220575	Hardware test report IEC 60068-2-78 Damp Heat
8	TR220574	Hardware test report IEC 60068-2-2 Dry Heat
7	RT220573	Hardware test report IEC 60068-1 Cold Test
3	4189350059	WSS 700 series users manual and installation note 4189350059A UK

Tests carried out

Environmental testing: IEC 60945 (2002)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location, in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvafinder.dnv.com>

END OF CERTIFICATE