

Certificate No: **TAA0000FB** 

# TYPE APPROVAL CERTIFICATE

This is to ce	rtify:			
That the Indica	itor			
with type design Wind Indicator				
Issued to DEIF A/S SKIVE, Deni	mark			
IEC 60945 Ed.	or classification – Ships and offshore 4 (2002-08) Maritime navigation an eral requirements – Methods of testi	d radiocommunication equipment and		
Product(s) approved by this certificate is/are accepted for installation on all vessels classed				
by DNV GL.				
Temperature Humidity Vibration EMC Enclosure	B B A B B/IP66-Front, IP20-Back			
This Certificate is valid until <b>2018-05-01</b> .				
Issued at Høvik on 2016-05-02				
DNV GL local sta	for <b>DNV GL</b> IV GL local station: <b>Aalborg</b>			
Approval Engineer: Rolf Heger				
		Jan Tore Grimsrud Head of Section		

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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.

Job Id: **262.1-022378-1** Certificate No: **TAA00000FB** 

### **Product description**

Wind Indicator

Type Designation	Location
WSDI-2	Protected

Technical Data:

 Dimensions:
 172.2 x 172.2 mm

 Power Supply:
 12/24VDC +30%, -10%

 Input Signals:
 RS485 - NMEA 0183

Option: NCI-1 NMEA 0183 to CAN interface box

Display:

Direction: Analog pointer

Dial: ±180° Marking: 10° Accuracy: Class 0.5

Speed: 4-digit 7-segmnet display

Accuracy:  $\pm$  digit

Material: Window – Antiglare 2mm Acrylic (UV-resistant)

Housing - ASA-PC blend

Degree of protection: IP66 - Front

IP22 - Back

Software: 1.0X.X

**Type Approval documentation** 

DNV GL No.	Doc. ref.	Rev.	Description
14	DANAK-1910333	-	Report: DELTA, Compass Safe distance test
13	301001/SM	-	Report: DEIF, Performance test WSDI-2
9	IPA299	Α	Report: DEIF, Environmental and EMC test report for WSDI-2
6	IPA0317	-	Report: DEIF, Environmental and EMC test report for NCI- 1 Interface (Active Sence NGW-1))
10	IPA0299	В	Report: DEIF, Additional Environmental and EMC test report for WSDI-2
3	4189350032C	-	Manual: DEIF, USERS's MANUAL/INSTALLATION NOTE Wind Display Type WSDI-2
4	-	-	Manual: DEIF, Appendix 2 (NCI-1 interface) for USERS's MANUAL/INSTALLATION NOTE Wind Display Type WSDI-2

#### **Tests carried out**

- IEC 60945 Fourth Edition (2002)
- DNVGL-CG-0339 (2015)

#### 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.

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## **Periodical assessment**

A retention survey is to be performed at least once every second year, and again upon renewal of this certificate.

The scope of the retention/renewal survey 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.

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