

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB00008DM**  
Revision no.:  
**1**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

that the **Transmitting heading device THD (GNSS method)**

with type designation(s)  
**NAVISTAR**

issued to

**Sperry Marine B.V. - German Branch**  
**Hamburg, Germany**

is found to comply with the Implementing Regulation (EU) 2024/1975 for  
Item no. **MED/4.41 (Row 2 of 2)**

according to the following requirements:

**SOLAS 74 Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.116(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87), SOLAS 74 Reg. V/18, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13**

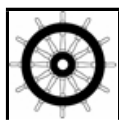
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-08-25**

Expiry date: **2030-08-19**

DNV local unit:  
**Hamburg – CMC North/East**

Approval Engineer:  
**Jörg Rebel**



Notified Body  
no.: **0098**



for **DNV SE**

*Digitally Signed By:*

**Christine Mydlak-Röder**

**Christine Mydlak-Röder**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment, signed February 27th, 2004, and amended by Decision No 1/2023 dated May 26th, 2023.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

**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 USD 300 000.

## Product description

Please see Appendix: Product Description

## Application/Limitation

- The equipment is able to provide position data on the serial output.
- This Certificate does not cover approval of the equipment as GPS (item MED/4.63).

## Type Examination documentation

Please see Appendix: Type Examination Documentation

## Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Interface testing: IEC 61162-1 (2016), IEC 61162-2 (1998)
- Presentation testing: IEC 62288 (2021)
- Bridge alert management testing: IEC 62923-1 (2018) and IEC 62923-2 (2018)
- Performance testing: ISO 22090-3 (2014)

## Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

# APPENDIX

## Type Examination documentation

Certificate no.:  
**MEDB00008DM**  
 Revision no.:  
**1**

| Document No.           | Rev.       | Title                                                                                                                  |
|------------------------|------------|------------------------------------------------------------------------------------------------------------------------|
| 11121-1E               | 2013-05-28 | Report: LabTest Cert, Tests acc. to IEC60945, 9 and 10                                                                 |
| 11121-1S               | 2013-09-11 | Report: LabTest Cert, Tests acc. to IEC60945, 7.2, 8.2 to 8.4, 8.7, 8.8 and 11.2                                       |
| -                      | 2013-09-06 | Statement: ComNav, Waiver acc. to IEC60945, 8.12.1                                                                     |
| BSH/4612/4412617 /13   | 2013-10-10 | Report: BSH, Tests for G3 acc. to ISO 22090-3 (2004)                                                                   |
| BSH/4612/4412617 /13-1 | 2013-10-10 | Report: BSH, Tests for G3 acc. to IEC 61162-1 (2010) and IEC61162 (1998)                                               |
| BSH/4612/4413108 /17   | 2017-02-21 | Report: BSH, Tests for G2 acc. to ISO 22090-3 (2014), 4.8, 4.9, 6.3 and 6.4                                            |
| BSH/4612/4413108 /17-2 | 2017-03-06 | Report: BSH, Tests for G2 acc. to ISO 22090-3 (2014), 6.6 and 6.7                                                      |
| PTR-02110-001          | 2022-08-09 | Report: ComNav, Tests for G2/G2B acc. to IEC 61162 (2016), 8.3.77 (RMC)                                                |
| 155-25                 | 1          | Report: Treo, Tests for Redundancy Module (P/N 060462-000-000) acc. to IEC 60945, 10.9                                 |
| 5017-0141-35           | A          | Report: Sperry Marine, Tests for integration of NAVISTAR 2 to CompassNet                                               |
| 5017-0141-36           | A          | Report: Sperry Marine, Tests for integration of NAVISTAR 2 to CompassNet acc. to ISO 22090-3 (2014) and IEC 62923-1/-2 |
| 056372                 | L          | Manual: System operation, installation and service - CompassNet                                                        |

# APPENDIX

## Product Description

Certificate no.:  
**MEDB00008DM**  
Revision no.:  
**1**

The transmitting heading device (THD) type NAVISTAR consists of the following components necessary for operation:

| <i>Mandatory components:</i>               |                              | <i>Part number</i> | <i>Software</i> |
|--------------------------------------------|------------------------------|--------------------|-----------------|
| GNSS Antenna type NAVISTAR 2               |                              | 060461-0000-xxx    | 1.7.x           |
| Redundancy module                          |                              | 060462-0000-xxx    |                 |
| Converter and Amplifier Unit               |                              | 074904-0000-xxx    | 3.xxx           |
| Converter and Amplifier Board              |                              | 025826-0000-xxx    | 3.xxx           |
| incl. CAB/CAU Main PCB                     |                              | 020760-0000-xxx    | 3.xxx           |
| Data Distribution Unit (DDU)               |                              | 074907-0001-xxx    | 3.xxx           |
|                                            | or                           | 074907-0002-xxx    | 3.xxx           |
| NAVITWIN V                                 |                              | 074902-0001-xxx    | 3.xxx           |
|                                            | or                           | 074902-0002-xxx    | 3.xxx           |
| <i>The following repeater may be used:</i> |                              |                    |                 |
| Steering Repeater (console mounted)        |                              | 074881-0001-xxx    |                 |
| Steering Repeater (console mounted)        | (permanent magnetic heading) | 074882-0001-xxx    |                 |
| Repeater (bulkhead mounted)                |                              | 074883-0001-xxx    |                 |
| Bearing Repeater                           |                              | 074880-0001-xxx    |                 |
| Bearing Repeater                           |                              | 074926-0000-xxx    |                 |
| with                                       |                              |                    |                 |
| Bearing Repeater Stand                     |                              | 074887-0000-xxx    |                 |
| Bearing Repeater Stand                     |                              | or 074911-0000-xxx |                 |
| or                                         |                              |                    |                 |
| Bearing Repeater Bracket                   |                              | 074886-0000-xxx    |                 |
| Bearing Repeater Bracket                   | (height adjustable)          | or 074888-0000-xxx |                 |
| Terminal Box                               |                              | 074859-0000-xxx    |                 |