

# EC TYPE-EXAMINATION (MODULE B) CERTIFICATE

Marine Equipment Directive (MED) 2014/90/EU

**PHOENIX TESTLAB**  
Notified Body Number **0700**

Recognised by



**0800S11/4822/007**

BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

This is to certify that:

PHOENIX TESTLAB did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto.

<b>Certificate No.</b>	PTL-MED-B-23-112047 - 23-125079
<b>Manufacturer Address</b>	Navico Inc. 4500 S. 129 <sup>th</sup> East Avenue, Ste. 200 Tulsa OK 74134, USA
<b>Authorised Representative Address</b>	Navico Logistics Europe B.V. Snijdersbergweg 93 1105 AN Amsterdam, Netherlands
<b>Directive Reference (No &amp; Item designation)</b>	Directive 2014/90/EU, Regulation (EU) 2023/1667 MED/4.32 (Row 2 of 2) Universal automatic identification system equipment (AIS)
<b>Product Description</b>	Automatic Identification System (AIS)
<b>Product Name / Trade Name</b>	SIMRAD / V5043

## Regulation SOLAS 74, as amended

Regulations V/18, V/19, X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.74(69), IMO Res. MSC.191(79), IMO Res. MSC.302(87), ITU-R M.1371-5 (02/2014)

## Testing Standards

IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)	IEC 61108-1 (2003)
IEC 61162-1 Ed. 5.0 (2016)	IEC 62288 Ed. 3.0 (2021)
IEC 61162-2 Ed. 1.0 (1998)	IEC 62923-1 Ed. 1.0 (2018)
IEC 61162-450 Ed. 2.0 (2018)	IEC 62923-2 Ed. 1.0 (2018)
IEC 61993-2 Ed. 3.0 (2018)	

Date of issue: **2024-01-16**  
USCG Approval Category: **165.155**

Expiry date: **2029-01-15**

**This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.**

The attached Schedule of Approval forms part of this certificate. This certificate consists of 4 pages.



Signed by Klaus Knörig  
Notified Body

## Schedule of Approval

### System Components

Component	Part No.	Remarks
SIMRAD Class A AIS Transceiver	V5043	Software Version V2
SIMRAD AIS Junction Box	SJB-1	-
SIMRAD AIS 37pin Cable	SDC-37	-
SIMRAD AIS 3pin Power Cable	SPC-3	-
SIMRAD AIS GPS Antenna	GA-25	-
VHF Antenna	ANT-11	Or equivalent VHF antenna

### Optional Components

Component	Part No.	Remarks
SIMRAD AIS Pilot Plug	SPP-1	-

### Approval documentation

Block Diagram	Block Diagram of AIS Class A Transponder, Issue 1.1, 2023-04-06
Circuit Diagrams	Schematic DCB, Document No. M-PCB-A750DCBV3, V3, 2022-10-13 Schematic MB, Document No. M-PCB-A750MBV3, V3, 2022-10-13 Schematic Power, Document No. M-PCB-A750PWR-V1, V1, 2022-10-12 Schematic SD, Document No. M-PCB-A750SDV1, V1, 2022-10-13 Schematic USB, Document No. M-PCB-A750USBV1, V1, 2022-10-13
PCB Layout and Parts Placement	PCB layout DCB, PCB layout MB, PCB layout Power, PCB layout SD, PCB layout USB
Parts List	Parts list DCB, Parts list MB, Parts list Power, Parts list SD, Parts list USB
Label	V5043 Product SN Label_20231207
Declaration letters	Navico EC representative letter, IEC 60945 Software development
Waiver letter IEC 60945	Waiver Document of A750 AIS Class A Transponder, Issue 1.0, 2023-03-21
Datasheet	M-ASM-PAN-AM-480272MGTZQW-05H, Specification for LCD Module
Installation Manual	V5043 Class A AIS Transceiver Installation Manual, 988-13175-001
Operator Manual	V5043 Class A AIS Transceiver Operator Manual, 988-13175-001
Risk Assessment	GQMS-1671949300-19075 Risk Assessment of V5043

### Applied Standards and Test Reports

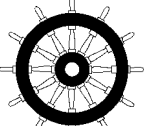
Specification	Laboratory	Test Report Number / Version
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Sections 5.2.3, 9, 10, 12.2	DEKRA	2210620R-E3012100074-A, 2022-07-06
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Sections 8.2, 8.3, 8.4	SGS	HCO0112A/2021, 2021-12-14
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 8.7	SGS	HCO0046B/2021, 2021-12-14
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 8.7	SGS	HC20023A, 2013-03-20
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 8.12	ETC	21-11-EAT-053-E03, 2022-04-07
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 11.2, Compass safe distance	BSH	Certificate No. 1103a, 2022-01-05
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 12.1	SGS	HCO0046A/2021, 2021-11-08
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Sections 8.2, 8.3, 8.4, 8.7	SGS	HC70065E/2021, 2021-12-14
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Sections 8.8	SGS	HC70065C/2021, 2021-09-07
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008) Section 8.12	ETC	21-11-EAT-053-E02, 2022-04-07
IEC 61993-2 Ed. 3.0 (2018-07)	BSH	BSH/454.AIS-A/AMEC A750/1, 2022-10-06
IEC 61993-2 Ed. 3.0 (2018-07)	PHOENIX TESTLAB	F220214E1, 2022-04-22
IEC 61162-1 Ed. 5.0 (2016) IEC 61162-2 (1998)	BSH	BSH/454.AIS-A/AMEC A750/1, 2022-10-06
IEC 61162-450 Ed. 2.0 (2018)	BSH	BSH/454.AIS-A/AMEC A750/1_b, 2023-03-08
IEC 62288 Ed. 3.0 (2021) IEC 60945 Ed.4 (2002) Sections 6.1, 6.2	BSH	BSH/454.AIS-A/AMEC A750/1_e, 2023-03-21
IEC 62923-1 Ed. 1.0 (2018) IEC 62923-2 Ed. 1.0 (2018)	BSH	BSH/454.AIS-A/AMEC A750/1_c, 2022-09-28
IEC 61108-1 Ed. 2.0 (2003)	BSH	BSH/454.GNSS/AMEC WL A750, 2021-12-10

### Limitations / Restrictions

- None -

### Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by the Notified Body.

3.  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-control phase module (D, E, or F) of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

### U.S. Coast Guard Approval

This equipment is covered by the scope of 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.1/2008 dated February 18th, 2019 according to U.S. Coast Guard approval category 165.155.

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 MRA.

The AIS radio transmitter is required to be authorized by the U.S. Federal Communications Commission (FCC).