

# 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-16-112372
<b>Manufacturer (Applicant)</b>	Navico, Inc.
<b>Address</b>	4500 S. 129 <sup>th</sup> East Avenue, Ste. 200 Tulsa OK 74134, USA
<b>Directive Reference (No &amp; Item designation)</b>	Directive 2014/90/EU, MED/4.32
<b>Product Description</b>	Universal automatic identification system equipment (AIS)
<b>Brand Name / Model Name</b>	SIMRAD, V5035

### Specified Standards

IMO Resolution A.694 (17)	IEC 61993-2 Ed. 2.0 (2012)
IMO Resolution MSC.74(69)	IEC 61108-1 Ed. 2.0 (2003)
IMO Resolution MSC.191(79)	IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)
ITU-R M.1371-5 (Class A), 2014	IEC 61162-1 Ed. 4.0 (2010)
	IEC 61162-2 Ed. 1.0 (1998)
	IEC 62288 Ed. 2.0 (2014)

Date of issue	<b>2017-01-20</b>	Expiry date:	<b>2022-01-19</b>
USCG Module B No.:	<b>165.155/EC0700</b>	Unique Identifier:	<b>PTL-MED-B-16-112372</b>

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.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

Seal

Signed by Dieter Griep  
Notified Body

## Schedule of Approval

### Technical description

Frequency Range	156.025 MHz – 162.025 MHz
Transmit Power	1 W / 12.5 W
Software Version	1.0.6.XX

### System Components

#### Part No.

Class A AIS Transponder Unit	No. 000-12249-001, Software version: 1.0.6.XX
Junction Box Unit	000-12324-001
Extension Cable	000-12328-001
GPS Antenna	000-12326-001
VHF Antenna	ANT-11 (or equivalent)

### Optional Components

#### Part No.

Pilot Plug Unit	000-12325-001
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### Approval documentation

Installation and Operation Manual	V5035 Operator and Installation Manual, Part No. 988-10838-001
System Diagram	WRD02031
Schematic Circuit Drawing	M-PCB-AISADCBV3 M-PCB-AISAJBV1 M-PCB-AISAMBV4 M-PCB-AISAPOWRV4
PCB Layout and Placement	PCB Layout DCB PCB Layout JB PCB Layout MB PCB Layout Power
Parts List	Parts List DCB Parts List JB Parts List MB Parts List Power
Software Change Note	Software Change Note AIS Class A_2016Q3
Technical Note	V5035 Technical Notes regarding AIS Version Indicator in Message 5
Risk Assessment	Risk Assessment of SIMRAD V5035 Class A AIS Transponder
Label	Simrad V5035 product label

### Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
IEC 61993-2 Ed. 2 (2012) Clauses 14, 16-21	BSH	BSH/46121/4322163/13-1
IEC 61108-1 Ed. 2 (2003)	BSH	BSH/4612/4322163/12-2
IEC 62288 Ed. 1 (2008)	BSH	BSH/46121/4322163/13-3
IEC 62288 Ed. 2 (2014)	BSH	BSH/4543/001/4322868/14
IEC 61993-2 Ed. 2 (2012) Clause 15	BSH	BSH/46121/4322163/13-4
IEC 61993-2 Ed. 2 (2012) Clause 15	Phoenix Testlab	F123924E1
IEC 60945 Ed. 4 (2002) Clauses 6, 11.1, 13-15	BSH	BSH/46121/4322163/13-6
IEC 60945 Ed. 4 (2002) Clauses 9, 10	CCS	T130218W04-E
IEC 60945 Ed. 4 (2002) Clauses 8.2, 8.3, 8.4	Phoenix Testlab	U123924E1
IEC 60945 Ed. 4 (2002) Clauses 8.7, 12.1	SGS	HC60123B/2012
IEC 60945 Ed. 4 (2002) Clause 8.12	IST	HS1204120137A
IEC 60945 Ed. 4 (2002) Clauses 9, 10	CCS	T130102W05-E
IEC 60945 Ed. 4 (2002) Clause 12.2	CCS	T130102W05
IEC 60945 Ed. 4 (2002) Clause 11.2 Compass safe distance	BSH	Certificate No. 777

**Places of production (if different from applicant)**

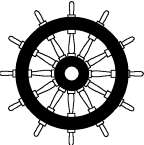
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**Limitations / Restrictions**

- 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. Should the specified regulations or standards be amended during the period of validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on the market and on board vessels to which the amended regulations or standards apply.

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 ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

**U.S. Coast Guard Approval**

This product has been assigned a U.S. Coast Guard Module B number (165.155/EC0700/PTL-MED-B-16-112372) to note type approval to Module B only as it pertains to obtaining US Coast Guard approval 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.

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