

Marine Equipment Directive EU Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2022/1157
Certificate Holder and Manufacturer	Thrane & Thrane A/S Lundtoftegaardsvej 93 D DK-2800 Kgs. Lyngby Denmark
Product(s)	SAILOR 6390 SAILOR 6391
Product Sector	Radiocommunication Equipment
Product Type	MED/5.3 NAVTEX Receiver

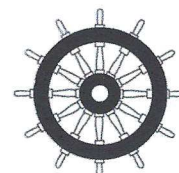
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 15 August 2023


(Signature)

Expiry Date: 14 August 2028

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com



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TÜV SÜD DANMARK ApS • Strandvejen 125 • 2900 Hellerup • Denmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

NAVTEX Receiver

1.1 Models

Model
SAILOR 6390 Navtex Receiver <small>Notes 1 & 3</small>
SAILOR 6391 Navtex System <small>Notes 2 & 3</small>

1.1.1 System Components

Model	Description	SAILOR 6390	SAILOR 6391
SAILOR 6390 (TT-6390A)	Navtex Receiver	X	X
SAILOR 6004 (TT-6004A)	Control Panel	-	X

1.2 Software Note 4

Identity	Description
Version 2.20	6390 NAVTEX Receiver SW
Version 2.10	6004 Control Panel SW

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/5.3 Note 5

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17) IMO Res. MSC.148(77) IMO Res. MSC.302(87) ITU-R M. 540-2 ITU-R M. 625-4 IMO COMSAR/Circ.32	IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)	Maritime navigation and radiocommunication equipment and systems – General requirements
	IEC 61097-6 (2005) + A1 (2011) + A2 (2019)	Global maritime distress and safety system (GMDSS) – Part 6: Narrowband direct-printing telegraph equipment for the reception of navigational and meteorological warnings and urgent information to ships (NAVTEX)
	IEC 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems – Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-450 (2018)	Maritime navigation and radiocommunication equipment and systems – Digital interfaces Part 450: Multiple talkers and multiple listeners – Ethernet interconnection
	IEC 62923-1 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management Part 1: Operational and performance requirements
	IEC 62923-2 (2018)	Maritime navigation and radiocommunication equipment and systems – Bridge alert management Part 2: Alert and cluster identifiers and other additional features



Danmark

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3 Technical Documentation

3.1 Declaration of Conformity

99-155363-L Declaration of Conformity SAILOR 6390 and 6391 Navtex Receiver Dated 2023-03-27

3.2 User Guide

SAILOR 6390 Navtex Receiver User Manual, 98-137261-F	Dated	2022-03-29
SAILOR 6390 Navtex Receiver Installation Manual, 98-139768-G	Dated	2022-03-28
SAILOR 6004 Navtex Control Panel Installation Manual, 98-136644-D	Dated	2015-09-03

3.3 Test Reports

3.3.1 IEC 60945 (2002) incl. IEC 60945 Corrigendum 1 (2008)

E12207.00	Issued	2015-09-08
75923004 Report 01 Issue 2	Issued	2013-11-06
75923004 Report 03 Issue 2	Issued	2013-11-08

3.3.2 IEC 61097-6 (2005) + A1 (2011) + A2 (2019)

75923004 Report 04 Issue 2	Issued	2013-11-08
96-176734-B	Issued	2022-05-10

3.3.3 IEC 61162-1 (2016)

75930992 Report 02 Issue 1	Issued	2015-10-27
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3.3.4 IEC 61162-450 (2018)

96-154196-A	Issued	2017-02-16
96-176711-A	Issued	2022-04-06
75952672 SoT 02 Issue 1	Issued	2022-05-25

3.3.5 IEC 62923-1 (2018) & IEC 62923-2 (2018)

96-176734-B	Issued	2022-05-10
75952672 SoT 01 Issue 1	Issued	2022-05-25

3.4 Build Status

3.4.1 Hardware

TT-6390A Drawing No. 93-135754 Rev. J	Modified	2017-01-13
TT-6004A Drawing No. 93-134922 Rev. H	Modified	2019-01-14
TT-6004A Drawing No. 93-135568 Rev. G	Modified	2013-06-21

3.5 Notes

- Note 1 The SAILOR 6390 works as a stand-alone unit and can be used as part of an Integrated Navigation System, however this approval does not cover INS operation.
- Note 2 The SAILOR 6391 comprises of radio receivers, signal processors, a dedicated display, printer output port and non-volatile memory in line with IMO Resolution MSC.148(77).
- Note 3 SAILOR is the brand name for Cobham SATCOM maritime products manufactured by Thrane & Thrane A/S.
- Note 4 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.
- Note 5 The SAILOR 6390/6391 meets the requirements of IEC 62923-1 for EUT function type P.
- Note 6 A SAILOR 6588A DGNSS receiver and SAILOR 6280 AIS Transponder may be connected to the system in order to provide full DGNSS and AIS functionality. The DGNSS and AIS functions are not covered by this certificate. Type Approval certificates are required for the DGNSS and AIS facilities.

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4 Conditions of Validity

This certificate ceases to 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 TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and 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 TÜV SÜD DANMARK ApS.

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.

Signature: *T. J. Twynam*
(Thomas J. Twynam)

Date: 2023-08-15

On behalf of TÜV SÜD DANMARK ApS