



Danmark

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 6280 SAILOR 6281
Product Sector	Navigation Equipment
Product Type	MED/4.32 Universal automatic identification system equipment (AIS)

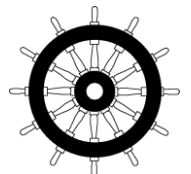
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 31 August 2023

(Signature)

Expiry Date: 30 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

**2443**

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Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Universal Automatic Identification System (AIS)

1.1 Models

1.1.1 System Components ^{Note 1}

Model No.	Description		SAILOR 6280	SAILOR 6281
TT-6282A	SAILOR 6282 AIS Transponder	406282A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TT-6285A	SAILOR 6285 GNSS Antenna - Active	406285A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TT-6004A	SAILOR 6004 Control Panel	406004A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TT-6283A	SAILOR 6283 AIS Connection Box incl. Wall Tray	406283A	<input checked="" type="checkbox"/>	

1.2 Software ^{Note 2}

Identity	Description
3.10	SAILOR 6282 AIS Transponder
2.10	SAILOR 6004 Control Panel

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/4.32 ^{Note 3}

IMO Resolutions	International Testing Standards	
Resolution A.694(17)	IEC 60945:2002 incl. Corr. 1:2008	Maritime navigation and radiocommunication equipment and systems – General requirements
Resolution MSC.74(69) ITU-R M.1371-5 (02-2014)	IEC 61993-2:2018	Maritime navigation and radiocommunication equipment and systems – Automatic Identification System (AIS) Part 2: Class A shipborne equipment of the universal automatic identification system (AIS)
Resolution MSC.191(79)	IEC 62288:2021	Maritime navigation and radiocommunication equipment and systems – Presentation of navigation-related information on shipborne navigational displays
Resolution MSC.302(87)	IEC 62923-1:2018	Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 1: Operational and performance requirements, methods of testing and required test results
	IEC 62923-2:2018	Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 2: Alert and cluster identifiers and other additional features
-	IEC 61162-1:2016	Maritime navigation and radiocommunication equipment and systems – Digital interfaces Part 1: Single talker and multiple listeners

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IMO Resolutions	International Testing Standards	
-	IEC 61162-2:1998	Maritime navigation and radiocommunication equipment and systems – Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
-	IEC 61162-450:2018	Maritime navigation and radiocommunication equipment and systems – Digital interfaces Part 450: Multiple talkers and multiple listeners – Ethernet interconnection

3 Technical Documentation

3.1 Declaration of Conformity

99-153830-K Declaration of Conformity SAILOR 628x AIS System Dated 2023-03-27

3.2 User Guide

98-137573-H SAILOR 6280/6281 AIS System Installation manual Dated 2022-03-02
98-135323-H SAILOR 6280/6281 AIS System User manual Dated 2022-02-24

3.3 Test Reports

3.3.1 IEC 60945:2002 incl. Corr. 1:2008

75921133 Report 01 Issue 1 Dated 2013-07-15
75921133 Report 09 Issue 3 Dated 2013-07-15
75921133 Report 11 Issue 2 Dated 2013-07-04
CML-R945/6-003-2 Dated 2013-06-05
E12207.00 Dated 2012-11-19

3.3.2 IEC 61993-2:2018

N01.19 Dated 2019-04-11
99-165885-B Dated 2022-05-10
N16.16 Dated 2016-10-24
96-181075-A Dated 2022-06-06
75921133 Report 03 Issue 3 Dated 2013-07-05
N 01.14 Dated 2014-01-08

3.3.3 IEC 62288:2021

BSH/4543/001/4112865/15-2 Dated 2015-06-24
N 01.14 Dated 2014-01-08
IEC 62288 – Thrane & Thrane AIS report-Issue 1a Dated 2013-06-05
99-184814 Dated 2023-08-25

3.3.4 IEC 62923-1:2018 & IEC 62923-2:2018

96-176735-D Dated 2022-05-19
75952739 SoT Issue 01 Dated 2022-05-25

3.3.5 IEC 61162-1:2016

75930992 Report 01 Issue 1 Dated 2015-10-27
99-163410-A Dated 2018-08-10

3.3.6 IEC 61162-2:1998

75921133 Report 05 Issue 1 Dated 2013-07-10

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3.3.7 IEC 61162-450:2018

96-176712-A	Dated	2022-02-22
TUVSUD 75952739 SOT 02 issue 01	Dated	2022-05-26
96-153928-A	Dated	2016-10-28

3.4 Build Status

3.4.1 Hardware

93-134922_H	Modified	2019-01-14
93-135110-Q	Dated	2016-12-02
93-135355-C	Dated	2012-12-05
93-135568-g	Dated	2014-06-21
99-163438-B_BOM_Report_57-134922_B.17	Dated	2023-02-06
99-163438-B_BOM_Report_57-135110_G.05	Dated	2023-02-06
99-163438-B_BOM_Report_57-135355_C01	Dated	2018-09-08
99-163438-B_BOM_Report_57-135568_C.03	Dated	2018-08-19
99-163438-B_BOM_Report_60-135110_B.10	Dated	2023-02-06
99-163392_D_Software_Hardware_verison_6280_6281	Dated	2023-06-20

3.5 Notes

- Note 1 SAILOR is the brand name for Cobham SATCOM maritime products manufactured by Thrane & Thrane A/S.
- Note 2 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 3 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function type P

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:

M Hardy
(M J Hardy)

Date:

31/08/2023

On behalf of TÜV SÜD DANMARK ApS